



# Skill Council for Green Jobs Annual Report 2022-23





# SCGJ's thematic alignment with SDGs

<b>1</b> NO POVERTY 	<b>2</b> ZERO HUNGER 	<b>3</b> GOOD HEALTH AND WELL-BEING 	<b>4</b> QUALITY EDUCATION 	<b>5</b> GENDER EQUALITY 	<b>6</b> CLEAN WATER AND SANITATION 	<b>7</b> AFFORDABLE AND CLEAN ENERGY 	<b>8</b> DECENT WORK AND ECONOMIC GROWTH 	
<b>9</b> INDUSTRY, INNOVATION AND INFRASTRUCTURE 	<b>10</b> REDUCED INEQUALITIES 	<b>11</b> SUSTAINABLE CITIES AND COMMUNITIES 	<b>12</b> RESPONSIBLE CONSUMPTION AND PRODUCTION 	<b>13</b> CLIMATE ACTION 	<b>14</b> LIFE BELOW WATER 	<b>15</b> LIFE ON LAND 	<b>16</b> PEACE, JUSTICE AND STRONG INSTITUTIONS 	<b>17</b> PARTNERSHIPS FOR THE GOALS 

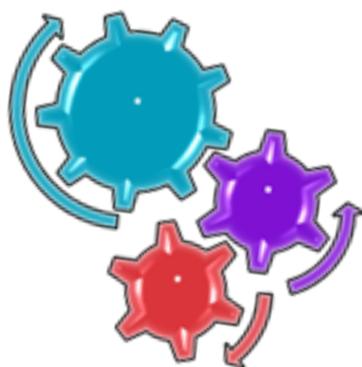
SUSTAINABLE DEVELOPMENT GOALS





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# Message from the Chairman

Vision of SCGJ

**Mr. Sameer Gupta**

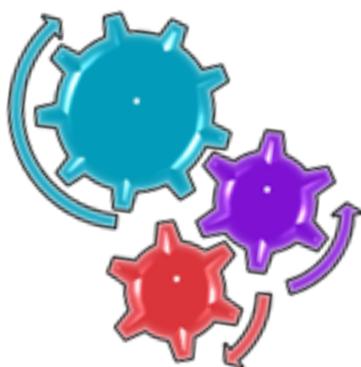
Chairman, Skill Council for Green Jobs



India's economy is consistently growing and with the new initiatives of the Government and the renewable energy sector is also moving at the same pace. We are fifth largest economy in the world and we are set to become third largest in the next four to five years. The G-20 summit theme has been very apt, *"One Earth · One Family · One Future"*. We are working on strategies for creating a stronger, futuristic and a sustainable country.

Over the last few years, the Government had laser sharp focus on execution of the strategies which is the key to success. India continues to build a strong physical, social as well as digital infrastructure and this is one of the key focus areas of the government. There is significant focus on green economy which will result in India leapfrogging its position in renewable energy sector. With added focus on transmission, storage and green hydrogen, we can say that government is committed to meet or exceed its renewable target of 2030. Energy transition is clearly a priority for our country, which has taken national importance for reasons of both energy security and carbon neutrality. Green hydrogen mission targets production capacity of green hydrogen to touch at least 5 MMT per annum by 2030, which will significantly facilitate transition of India into low carbon economy. With the recent discovery of lithium deposits is a very exciting the renewable energy sector. This could potentially reduce our country's dependence on imports and further accelerate the shift towards clean energy.

The initiative of creating green jobs is a crucial step forward in the country's mission to become a greener and sustainable nation. To address these challenges, I think contribution of Skill Council for Green Jobs needs to be immense, a lot more than what we have been ever doing since. Without having green skills, India cannot meet the demand of green jobs. Skill Council for Green Jobs, over the last few years have taken many initiatives and will continue to do so.

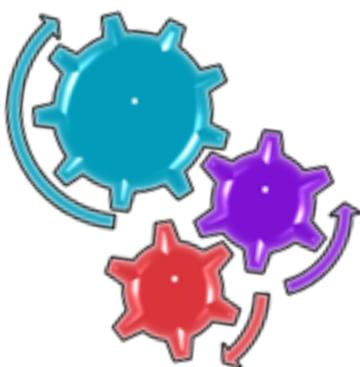


Sameer Gupta



## World Bank WePOWER Partner

SCGJ has been onboarded as a WePOWER partner with World Bank in order to support workforce participation of Women in Energy projects and Institutions, and promote normative change regarding women in science, technology, engineering and mathematics (STEM Education)





# Message from the CEO's Desk

Vision of SCGJ

**Dr. Praveen Saxena**

Chief Executive Officer, Skill Council for Green Jobs

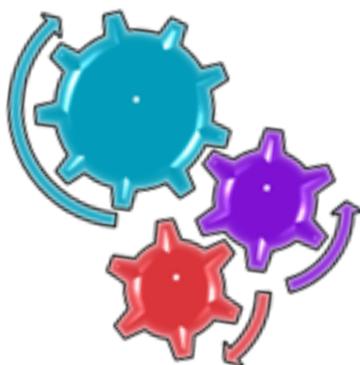


SCGJ's Vision 2047 is that the shift to clean energy in India will result in 30-35 million additional jobs created across a number of sectors by the year 2047, and over 10 million skills trainings and job facilitations will be undertaken. The sectors deemed to have the highest potential for job creation include: green hydrogen, energy storage, hybrid renewable systems, biomass/biofuels, EV charging, pollution control, e-waste management, and decarbonisation of energy intensive industries, etc. In the shorter-term, to 2030, SCGJ aims to facilitate one million short-term trainings in clean energy and green technologies, two million virtual or blended upskilling and reskilling training across all sectors, establish 20 centres of excellence across India along with 750 affiliate training centres, and create 7 500 certified trainers.

For an effective nationwide 'just transition', the strategy must include green jobs and skilling across multiple sectors and requires proper near and long-term planning. To this effect, the Green Jobs Landscape mapping study recently concluded by the Skills Council for Green Jobs (SCGJ) has provided insights on India's journey of Green Growth with a lens of equity and justice. With India emerging as one of the world leaders, it has the potential to create up to 35 million green jobs by 2047. The envisioned green growth presents an opportunity to generate significant employment opportunities for a large population.

India is now working towards making India energy independent before the completion of 100 years of independence. The country has announced the National Hydrogen Mission and to make India a Global Hub for Green Hydrogen Production and Export during next 25 years. We are now moving towards Clean Energy Transition. The new opportunities from Green Growth to Green Job are opening up today for our start-ups & youth. Renewable energy experts are working together to utilize artificial intelligence (AI) diagnostic ability to increase performance in RE power systems. AI and machine learning methods can also be and are widely used for optimizing operations of RE projects and applications. SCGJ proposed to systematically include these in the qualifications as future of skills to take care of these aspects utilising AI in the green energy sector. assessments.

Dr. Praveen Saxena



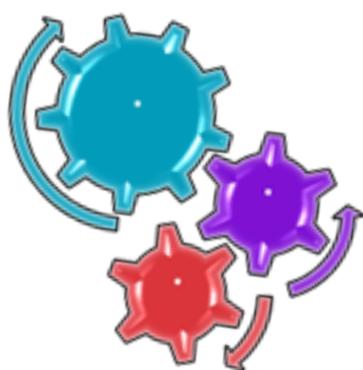


## Strategic Alliance with German Industry



SCGJ signed MoU with Bundesverband Solarwirtschaft E.V., Germany (BSW Solar) during the visit of German Chancellor, Olaf Scholz in New Delhi, focusing on boosting bilateral ties in the areas of Trade & Investment, New Technologies, Clean Energy & Skill Development. SCGJ had the privilege to exchange the MoU with Bundesverband Solarwirtschaft E.V., Germany (BSW Solar) to cooperate mutually by promoting the development of Skills and Job opportunities in the field of Renewable Energy through the collaboration in each others country.

After approving a new labour strategy in October aimed at helping companies and businesses attract and retain skilled workers, the government announced in December it would amend its immigration law, hoping to fill the tens of thousands of vacant energy transition jobs. BSW plans to further expand the integration of skilled workers from abroad after the law enters into force in summer.





# Message from the COO

Vision of SCGJ

**Mr. Arpit Sharma**

Chief Operating Officer, Skill Council for Green Jobs



After 8 years of its intense work in the skill ecosystem, SCGJ is aiming to take a leap in its activities and planning to strengthen its international presence. Encouraged with its experience in delivering online training to over 1400 candidates from 82 ISA member countries in English, French and Spanish languages and being recognised by bilateral and multilateral organizations as the lead agency of India in capacity and skill development in the sustainable and green energy sector, SCGJ now wants to extend its efforts at the international level.

The testimony of our quality of work gets reflected when we get assignments from organizations like the World Bank, UNDO, USAID, FCDO and WHO. SCGJ was invited by USAID to deliver "Green Hydrogen Virtual Master Class" for South Asian countries including Bangladesh, Bhutan, Sri Lanka, Maldives. This year, SCGJ is the member of BRICS Business Council Energy and Green Economy Working group. SCGJ has established a unique partnership with the International Renewable Energy Agency (IRENA), Abu Dhabi, International Energy Agency (IEA), France and the Clean Energy Ministerial. SCGJ was invited by the World Bank to the 3rd WePOWER Conference held in Bangkok, Thailand to share the Indian experience of skilling and jobs across the Green jobs segment. SCGJ is the member of WePOWER India chapter.

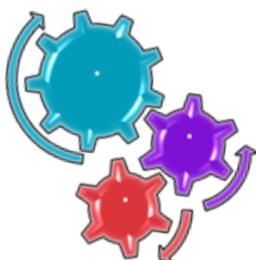
In the past 6 years, SCGJ got a series of assignments from GIZ in the domain of solar energy, waste water, bio energy and greening of other sectors. SCGJ has a strategic alliance with German Industry. SCGJ signed an MoU with Bundesverband Solarwirtschaft E.V., Germany (BSW Solar) during the visit of German Chancellor, Olaf Scholz in New Delhi, focusing on boosting bilateral ties in the areas of Trade & Investment, New Technologies, Clean Energy & Skill Development.

SCGJ and its trained candidates represented India in the World Skills competition for Water technology and Renewable Energy trades. It got India's first ever Gold medal at a WorldSkills Competition in the year 2019. During the year 2022, It has again secured silver medal in Water Technology in the World Skills special edition 2022 held in Germany for Water Technology. and First time represented ng India in the World Skills special edition 2022 for Renewable Energy, held in Kyoto, Japan.

SCGJ has an online training aggregation platform so that its training partners can do market mode training in an online mode. SCGJ now has its own job portal. The SCGJ Job Portal is a technology initiative by Skill Council for Green Jobs to seamlessly connect employers with skilled candidates in the Green Energy Sector.

I am sure SCGJ will extend its outreach in the coming years and will be able to lead the international skill eco system in Green Energy.

Arpit Sharma





## NCVET recognizes Green Jobs SSC as Awarding Body for Green Business and Environment Sector

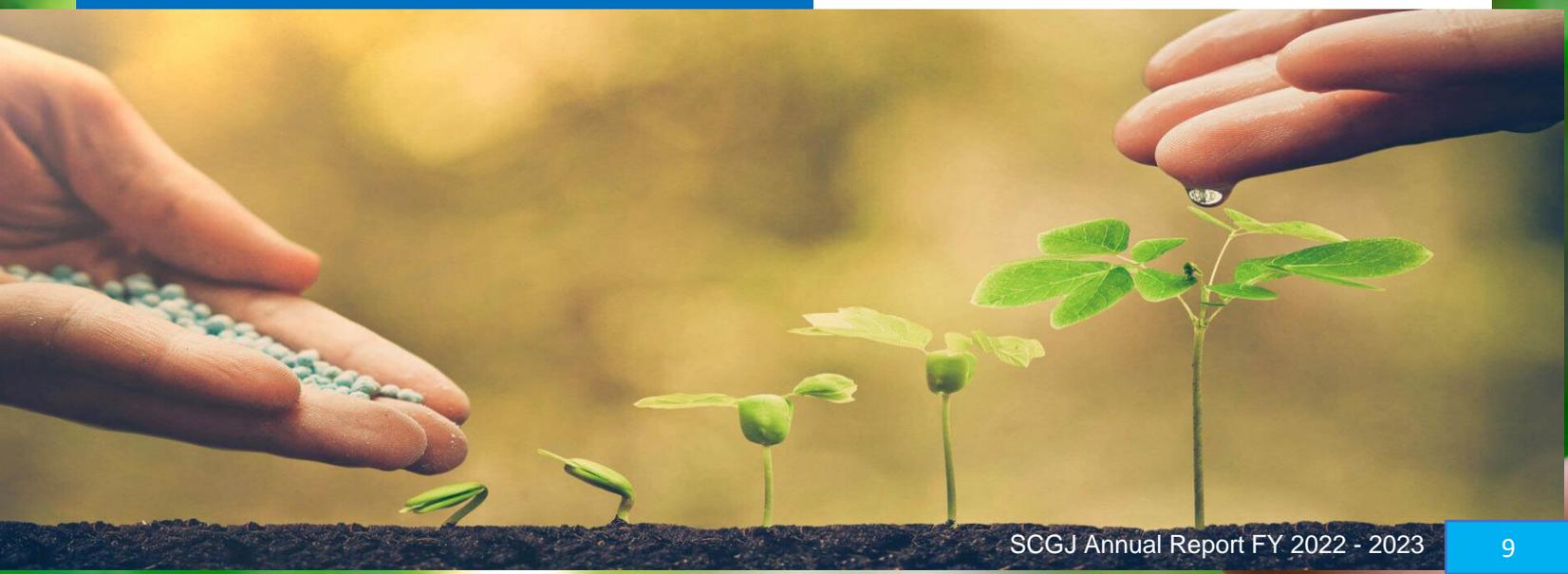
**In Picture:** Dr. Praveen Saxena, C.E.O, SCGJ with Dr. Nirmaljeet Singh Kalsi, Chairperson, NCVET and Col. Santosh Kumar, Secretary cum Director, NCVET

New Delhi | 31<sup>st</sup> May 2022



Skill Council for Green Jobs became one of the first Sector Skill Councils of India to be granted the awarding body status by National Council for Vocational Education and Training, Govt. of India.

SCGJ has been a pioneer organization playing an instrumental role in facilitating the skilled workforce demand of the country to achieve Green Transition, boost Green Business and Sustainable Development Goals.





# Skill Council for Green Jobs

Green Jobs Propelling Green Growth

**AWARENESS PLANET ALTERNATIVE ENERGY**

**INDIVIDUAL STORAGE OZONE**

**CIRCULAR - ECONOMY WATER**

**NATURAL RESOURCES** **PROTECT FLORA FAUNA** **CLEAN-UP** **NATURE** **RECYCLE** **WEATHER** **PHILANTHROPY**

**EARTH** **REDUCE** **RE-USE** **ENVIRONMENT** **SOCIAL** **GOVERNANCE** **IMPACT**

**DE-CARBONIZATION** **ETHICS** **GREEN JOBS** **PARTICIPATION** **ENVIRONMENT** **SUSTAINABILITY** **GROWTH** **PLANTATION** **WORLD** **ACTION** **NET ZERO**

**JAN BHAGIDARI** **CLEAN ENERGY** **CORPORATE SOCIAL RESPONSIBILITY**



## Relevant excerpt from Hon'ble Prime Minister, Shri Narendra Modi's address to the nation on the Independence Day of India, 15<sup>th</sup> of August, 2023

### On Renewable Energy:

- Country is working towards “Making India Energy Independent” before the completion of 100 years (2047) of independence.
- Today the country is working on green hydrogen.
- International Solar Alliance was formed.
- A task force has been made in the renewable energy sector. We have surpassed our set target. The target which we had set for renewable energy by 2030 was completed in 2021-22.
- Goal about 20 percent blending in ethanol, has been completed five years ahead of time.
- Target about exports of 500 billion dollars, was accomplished ahead of time. It was increased to more than 500 billion dollars.
- India is working towards a low carbon emission pathway while simultaneously endeavoring to meet all the developmental challenges. Our Nationally Determined Contribution (NDC) are taking forward the Prime Minister's vision of a sustainable lifestyle and climate justice to protect the poor and vulnerable from adverse impacts of climate change.
- India's NDC centers around policies and programs on promotion of clean energy, especially renewable energy, enhancement of energy efficiency, development of less carbon intensive and resilient urban centers among others.



“One World,  
One Family,  
One Future.”



The world is joining us with the vision we have presented –  
“One Sun,  
One World,  
One Grid”  
in the field of renewable energy.

### On Environment:

- Environmental security is getting the same importance in the world as national security. Today India is a vibrant voice of environmental security, whether it is biodiversity or land neutrality, climate change or waste recycling, organic farming or biogas, energy conservation or clean energy transition. India's efforts in environment are giving results today. Increase in forest cover, number of national parks, increase in number of tigers and Asiatic lions are a matter of happiness for the countrymen.
- Among all these successes one truth needs to be understood. India is not yet energy independent. India today spends more than 12 lakh crore rupees annually for importing energy. For India's progress and to build a self-reliant India, India's energy independence is the need of the hour! Therefore today, India has to make a resolution to make India energy independent before the completion of 100 years of independence and our roadmap is very clear for the same.
- It should be a gas based economy. There should be a network of CNG & PNG across the country.
- India has made a move towards Electric Mobility. The work on 100% electrification of Railways is progressing at a fast pace.
- Indian Railways has set a target of becoming Net Zero Carbon Emitter by 2030. Besides these efforts, the country is also emphasizing on Mission Circular Economy. Our Vehicle Scrap Policy is a great example of the same.
- Emphasized the importance of Bio-diversity and advanced the establishment of the “Big Cat Alliance.”
- We have put forth the concept of “One World, One Family, One Future” for the G20 Summit and are working in that direction.

# Hon'ble Prime Minister's address

## Special points:

- PM greets his dear 140 crore family members on Independence Day. Today India is becoming the voice of the Global South.
- PM thanks World Leaders for their greetings on India's Independence Day.
- Prime Minister attributes India's rise to 5th largest economy in the world to efforts of 140 crore people of India.
- India's exports is rising rapidly, world rating agencies recognizing India's potential.
- To deal with climate crisis the Life Style for Environment - Mission LiFE initiative has been launched.
- Work is on to build an accessible India for Divyangjan (Persons with disability)
- Women-led Development essential to take the Nation forward.
- India has gained new strategic strength. Borders are more secure than ever.
- Cooperatives are a significant part of the country's social economy.
- Government to open 25000 Jan Aushadhi Kendras to make medicines available at affordable prices.
- The burden of the poor visiting hospitals during illness has been eased under the Ayushman Bharat Yojana.
- Direct deposit of 2.5 lakh crore rupees has been made into the accounts of our farmers through the PM Kisan Samman Nidhi.
- Subsidy of Rs. 10 lakh crore for providing cheaper Urea to farmers.
- The government has now started the Vibrant Village program for last/ Border villages.
- India's G20 Presidency has brought out the potential of India's common citizens
- Aim is there to create 2 crore Lakhpati Didis - Women's SHGs to power Drone Ki Udaan.
- We must fight against three evils of corruption, nepotism and appeasement with all our might.
- Doctors, nurses and others were praised for their efforts for changing the fortune of the country.
- Government schemes have enabled 13.5 crore people to break the shackles of poverty and join the new middle class.

## On Women-led development:



- Women-led development essential to take the Nation Forward.
- Today in our country more daughters than boys are taking up STEM i.e. Science, Technology, Engineering and Math."
- The third point is that the additional power of women-led development will take the country towards further progress.
- Aim is to create 2 crore Lakhpati Didis.
- Women's SHGs to power Drone Ki Udaan.

### Panchamitra at COP 26:

1. Achieve the target of net-zero by 2070
2. 50% of energy requirements to be met through RE by 2030
3. Emissions intensity of GDP to be reduced by 45% by 2030
4. Reduce 1 Billion tonne of Carbon Emissions by 2030
5. Non-fossil energy capacity to reach 500 GW by 2030

## On Skill:

- The world needs youth power, youth skills. We have created a separate ministry for skill development. It will not only fulfil the needs of India, but will also fulfil the needs of the world.
- Emphasis has been laid on making education accessible to all by recommending imparting of education in mother tongues.
- A scheme will be launched on the occasion of Vishwa karma Jayanti, benefiting individuals skilled in traditional craftsmanship, particularly from the OBC community. Weavers, goldsmiths, blacksmiths, laundry workers, barbers, and such families will be empowered through the Vishwakarma Yojana, which will begin with an allocation of around 13-15 thousand crore rupees.
- The various schemes from housing schemes, providing 50,000 crore rupees to street vendors through the PM SVANidhi scheme, and many more have aided these 13.5 crore people to rise above the hardships of poverty.



# Introduction

Skill Council for Green Jobs (SCGJ) was established in October 2015 under the aegis of Ministry of Skill Development and Entrepreneurship, Government of India to address skilled manpower requirement for the emerging climate resilient technologies and India's commitment to United Nations Framework Convention on Climate change (UNFCCC). Promoted by the Ministry of New and Renewable Energy and Confederation of Indian Industry, SCGJ was set up as a not-for-profit, autonomous, and industry-led organisation with a mandate to design and implement a wide range of capacity building and skilling interventions.



SCGJ is one of the first few Sector Skill Councils to have been formally recognized as an "Awarding Body" by the National Council for Vocational Education and Training (NCVET). SCGJ's activities are linked to some of the key schemes and missions of the Government of India including the National Solar Mission, Make in India, Atmanirbhar Bharat, Swachh Bharat Mission, etc. and has been closely interacting with Central Ministries including Ministry of New and Renewable Energy (MNRE), Ministry of Environment Forest and Climate Change (MoEFCC), Ministry of Housing and Urban Affairs (MoHUA), Ministry of Jal Shakti etc., in addition to Skill Missions of various states SCGJ aims to identify the skilling needs of service users as well as manufacturers and service providers in clean energy sectors, and implement nation-wide, industry-led, collaborative skills development and entrepreneurial development initiatives to support India's potential for "green businesses". In line with the National Education Policy 2020 of India, SCGJ is now working towards introducing vocational education in Green Business sectors in Schools, Universities and Engineering institutions.

SCGJ's key activities encompass all stages of training design and delivery including, performing skills gap analysis, occupational mapping, development of qualifications based on industry requirements, affiliating suitable training partners and assessment agencies, training for trainers and assessors, training and certification of candidates in various subsectors supported with creation of centres of excellence, improving industry linkages in all sub-sectors, undertaking consultancy assignments and implementing externally sponsored projects.

SCGJ has a focus on developing a strong industry connect on three work streams – renewable energy; environment, forest and climate change; and sustainable development covering the entire gamut of "Green Businesses" in the country. In this context, SCGJ accords prime focus to strengthening industry connect, perform demand aggregation, identification, development & validation of qualifications along with their training content and e-learning modules. SCGJ has so far, developed 55 nationally (NSQC) approved qualifications across various sub domains (e.g. Renewable energy, waste management etc) along with their courseware and training content. It has a network of over 400 affiliated training institutions / centres along with over 4000 Trainers and assessors across the country, to deliver trainings across green business domain.

Till date, SCGJ through its training partners has imparted training to over 536,000 trainees including over 114,000 trainees, in solar and other renewable energy domain. In addition, SCGJ has also developed an E learning management system through which virtual trainings of over 4000 candidates have been undertaken. With the support from International Solar Alliance (ISA), SCGJ has also undertaken trainings of over 1400 stakeholder from 82 ISA member countries across various aspects of solar energy. SCGJ has also implemented a range of corporate social responsibility (CSR) supported project, including on Simultaneous Intervention of Renewable Energy Systems and Skilling for Smart Model Villages, a project adopted by the President of India to create 'smart villages' in the state of Haryana through expanded access to clean energy and skilling. Moreover, under a project with IT company HCL, SCGJ has designed and developed training modules and implemented trainings on solid waste management best practices, health & hygiene and communications skills, to over 4000 field staff of Noida Authority. In other areas, as part of workforce mapping exercises, SCGJ has partnered with Council on Energy, Environment and Water (CEEW) and Natural Resources Defense Council (NRDC) to undertake annual review of jobs and skilling in Indian Solar and wind energy industry.



## Key Sectors covered under SCGJ

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SCGJ has also organized various regional and national skilling competitions and participated in World Skills Competitions wherein its trained candidate who represented “Team India” got the Gold Medal in “Water Technology” during the last edition of World Skills Competition held at Kazan, Russia in 2019. SCGJ has also trained the candidates in select categories who would represent India in the World Skills 2022. SCGJ’s industry-led skilling programmes are designed to include advanced technological interventions that are harmonized with industry standards and requirements. As part of these efforts, SCGJ partners with key national institutions and industry to leverage their expertise and strengths in various subsectors.

SCGJ’s vision to 2047 is that the shift to clean energy in India will result in 30-35 million additional jobs created across a number of sectors by 2047, and over 10 million skills trainings and job facilitations will be undertaken. The sectors deemed to have the highest potential for job creation include: green hydrogen, energy storage, hybrid renewable systems, biomass/biofuels, EV charging, pollution control, e-waste management, and decarbonization of energy intensive industries, etc. In the shorter-term, to 2030, SCGJ aims to facilitate one million short-term trainings in clean energy and green technologies, two million virtual or blended upskilling and reskilling training across all sectors, establish 20 centres of excellence across India along with 750 affiliate training centres, and create 7500 certified trainers.

## Achievements of SCGJ

	<p><b>10</b> Skill Gap Studies Undertaken by SCGJ</p>	<p><b>53</b> Qualifications Developed by SCGJ</p>	<p><b>3481</b> Trainers Certified by SCGJ</p>
	<p><b>646</b> Assessors Certified by SCGJ</p>	<p><b>5.3 lakh+</b> Candidates Trained &amp; Certified by SCGJ</p>	<p><b>1,00,000+</b> Green Jobs facilitated PAN INDIA by SCGJ</p>



## Renewable Energy Projections by 2047

- 1,125 GW**  
Installed RE Capacity
- 50 GW<sup>1</sup>**  
Equipment Manufacturing Capacity
- 2.5 bn. tonnes<sup>2</sup>**  
Emissions Averted
- 67%<sup>3</sup>**  
Share of RE in Electricity Generation
- ₹ 50-60 Lakh Cr.<sup>4</sup>**  
Total Investment
- Top 1000 Corporations<sup>5</sup>**  
All energy requirement met through RE

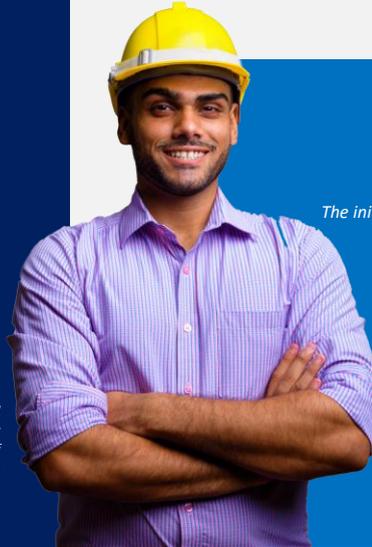
Allied technologies including electrolysers, energy storage, EVs, biofuels processing units etc. to further expand manufacturing capacity and attract additional investments

**1.** Indicated annual capacity to manufacture power generation equipment (solar PV modules, wind turbines) to meet 100% of new-build of domestic demand plus 20% capacity designated for equipment exports **2.** Based on a CO<sub>2</sub> emissions factor of 0.8 kg/kWh, annual CO<sub>2</sub> emissions abated by 3,153 BU of RE generated by 2047 as per CEA estimates **3.** RE share in installed generation capacity is projected to be ~85% **4.** Based on KPMG analysis **5.** To include top 1000 companies (PSUs, private, international companies in India) by revenue from Indian operations MNRE Vision 2047

## Job Projections in Green Business

The Green Energy and Energy Independence vision of Government of India translates into a huge opportunity for Additional Job Creation in multiple cross cutting sectors.

The Green Business Sectors include Renewable Energy, Water and Waste management, Green Buildings, Smart cities, Green Transportation, Circular Economy and resources & energy efficiency across sectors.



The initial estimates indicates that about

**3 - 3.50 crore additional jobs will be created across sectors by 2047**

## SCGJ Goal 2030

**10 Lakh**  
Short term trainings in clean and Green Technologies

**20 Center of Excellence**  
PAN India

**7500**  
Certified Trainers

**20 Lakh**  
Virtual, blended mode, market mode upskilling and reskilling trainings across all sectors.

**750**  
Affiliated Training Centers

## SCGJ Vision 2047

- Every Job role will contribute in the **Green Energy Transition.**
- Green Energy will be **part of every house hold and Industry.**
- Traditional Job roles will be superimposed with **new, green and future technologies.**
- **Unlimited job opportunities** and need of upskilling based on new technological advances.
- 3 - 3.50 crore additional jobs will be created across sectors by 2047
- **Over 1.00 crore skill trainings and job facilitation**





# Future Outlook of SCGJ

## Skilling & Entrepreneurs Development

SCGJ intends on implementation of Skilling & Entrepreneurs Development related trainings with a focus on Sustainable Cities, under “Green Business” Framework in all Smart Cities. The initial program will encompass all Green Businesses relevant to sustainable development of cities, including but not limited to Energy, Waste, Water, Green Buildings & Green Transport.

## Training on Carbon Neutral Processes

Introduce customized training modules on Carbon Neutral processes for every manufacturing job role.

## Partnerships to Upskill Existing Workforce

SCGJ to work more closely with Industry for upskilling of existing workforce including on greening the jobs by introducing energy and material efficiency and waste management.

## Partnerships with Educational Institutions

Provide increased focus on skill training with educational institutions with localized training contents on recycling / upcycling, green mobility, emissions reduction practices, entrepreneurship development through technology sharing and flexible financial products, etc.

## Adopt Global Best Practices

Identify globally adopted best practices on zero emission processes for large scale production units, SMEs, Industrial clusters, farm practices, etc.; develop training modules & delivery platforms.



### Green Hydrogen

Green Hydrogen Production Operator  
Green Hydrogen Application Analyst

### Opportunities

For multi-skilling and new jobs creation

### Energy Storage

Storage System Operator  
Battery Management System Operator

### EV Charging and Clean Transportation

Solar Charging Operator  
Battery Swapping Operators

### Renewable Power Generation

RE Installation and O&M Technicians  
Clean Energy Entrepreneurs  
Biomass Plant/Biofuel Production Operator

### Make in India for the world

Solar PV Manufacturing Operator  
Wind Turbine Manufacturing Technician

### Circular Economy

Manager - Circular Economy  
Product and Packaging Technicians

### Green Buildings

Energy Efficient Building Designer  
Green Building Material Sourcing Manager



## Ministry:

# Governing Council of SCGJ



MINISTRY OF  
SKILL DEVELOPMENT AND  
ENTREPRENEURSHIP

सत्यमेव जयते



MINISTRY OF  
NEW AND RENEWABLE ENERGY

सत्यमेव जयते



MINISTRY OF  
POWER

सत्यमेव जयते



MINISTRY OF  
SOCIAL JUSTICE AND  
EMPOWERMENT

सत्यमेव जयते

## Government Bodies:



NATIONAL INSTITUTE  
OF WIND ENERGY

नीचे NIWE



## Industry Associations:



Confederation of Indian Industry  
125 Years - Since 1895



NSEFI  
MAKING SOLAR ENERGY AFFORDABLE



PHD CHAMBER  
OF COMMERCE AND INDUSTRY



INDIAN WIND TURBINE  
MANUFACTURERS ASSOCIATION

## Industries:





# Activities of SCGJ during 2022- 2023

## The Year at a Glance

The year 2022 - 23 was an year for SCGJ greatly tilted towards International activities and engagement with bilateral and multilateral organizations. SCGJ has built on its past experience of online trainings Nationally as well internationally.

Skill Council for Green Jobs is about to complete 8 years of its operations. Apart from skill trainings to over 5.36 lakh candidates through its training partners, SCGJ has been focusing on the quality of training and improving training material, by taking help from its Industry partners and also from the bilateral and multilateral organizations. Upgrading knowledge and skills of its certified trainers by international experts has been a unique activity of SCGJ in past few years. It has joined hands with GIZ, UNDP, FCDO (former DFID) to strengthen its quality of training. SCGJ has expanded its outreach by participating in international activities and tenders for skilling in renewable energy sector in India. SCGJ got an opportunity to conduct online trainings on various topics of Solar Energy, for 82 ISA member countries in English, French and Spanish.

SCGJ has an online training aggregation platform so that its training partners can do market mode trainings in an online mode. SCGJ has now its own job portal. The SCGJ Job Portal is a technology initiative by Skill Council for Green Jobs to seamlessly connect employers with skilled candidates in the Green Energy Sector. SCGJ has now has its inhouse 'Green India Portal' to monitor its all activities including training and certification apart from using Digi locker for storing data of certified candidates. From May, 2022, SCGJ has been recognized as an "Awarding Body" by the National Council for Vocational Education and Training (NCVET).

SCGJ continued its efforts in organizing the series of 75 webinars on the occasion of "Azadi Ka Amrit Mahotsav" covering various topics in Renewable Energy, Sustainable Development, Green Hydrogen, waste management, waste to fuel etc. So far 89 webinars have been organized.

SCGJ participates in WorldSkills competition for Water technology and Renewable Energy trades. It got India's first ever Gold medal at a WorldSkills Competition in the year 2019. During the year 2022, It has again secured silver medal in Water Technology in the World Skills special edition 2022 held in Germany for Water Technology and First time participated in World Skills special edition 2022 for Renewable Energy, held in Kyoto, Japan.

SCGJ was invited by the World Bank to the 3<sup>rd</sup> WePOWER Conference during December 6<sup>th</sup>-8<sup>th</sup> December, 2022 in Bangkok, Thailand to share the Indian experience of skilling and jobs across the Green jobs segment in which Mr. Arpit Sharma, COO, SCGJ and Deepak Rai, VP, Standards & Research, SCGJ participated.

Honorable Mr Francesco La Camera, Director General, International Renewable Energy Agency (IRENA) and his team visited SCGJ office on 25<sup>th</sup> April, 2022 to discuss and explore future collaborations with SCGJ.

SCGJ had an strategic alliance with German Industry. SCGJ signed an MoU with Bundesverband Solarwirtschaft E.V., Germany (BSW Solar) during the visit of German Chancellor, Olaf Scholz in New Delhi, focusing on boosting bilateral ties in the areas of Trade & Investment, New Technologies, Clean Energy & Skill Development. SCGJ exchanged the MoU with Bundesverband Solarwirtschaft E.V., Germany (BSW Solar) to cooperate mutually by promoting the development of Skills and Job opportunities in the field of Renewable Energy through the collaboration in each other's country.

During the year, two Governing Council meetings and one AGM was held. The 15<sup>th</sup> GC and 7<sup>th</sup> AGM of SCGJ was held virtually on 19<sup>th</sup> September 2022. The 16<sup>th</sup> GC meeting of SCGJ was held virtually on 17<sup>th</sup> February 2023 under the Chairmanship of Mr. Sameer Gupta, CMD, Jakson Group through video conferencing.



# Activities of SCGJ during 2022- 2023

Creating new Center of Excellence and strengthening the existing COE has been the focus of SCGJ during 2022-23. SCGJ has its presence as COEs in Bengaluru, Karnataka and Thiruvananthapuram, Kerala (Southern region), Kolkata, West Bengal (Eastern region) and Ahmedabad, Gujarat (Western Region) Gurgaon, Haryana, and Roorkee, Uttarakhand to widen its outreach to industry as well as training partners. National Institute of Wind Energy, Chennai is now SCGJ new COE for skilling in Wind Energy. SCGJ is now developing IIT Mandi as a focal institution for solar PV trainings and would be developed as COE in renewable energy. In total SCGJ has 9 COEs spread through the Country. It is also proposed to develop COE in Green Hydrogen sector as well.

The activities of the Skill Council have been broadly categorized under following heads:

 Occupational Mapping	 Skill Gap Analysis	 Develop NSQC Approved Qualifications
 Affiliate TP & Accredited AA	 TOT & TOA	 Training & Certification
 Create Centres of Excellence	 Improve Industry Linkages	 Provide Consultancy

## Skill Gap Studies

**1. Solid Waste Management in Metro Cities:** Skill Council for Green Jobs commissioned a study to understand the segment wise skilling requirement and supply and to identify the potential gaps in solid waste management. The objective of the study was to understand the present situation of the solid waste management and how it is being managed in a particular area; to understand the structure in solid waste management and current size of workforce and to identify the job role wise skills requirement among the people engaged in solid waste management segment and their aspiration for alternate livelihood and assessing the up-skilling of the current employees. The study was conducted across 4 metropolitan cities viz. Delhi, Mumbai, Chennai and Kolkata. Kantar Public was entrusted with the responsibility of conducting this study. The study was completed in April, 2022.

**2. Jobs and skilling in domestic solar and wind energy sector – Report by SCGJ, CEEW and NRDC - February, 2023**

SCGJ in collaboration with Council on Energy, Environment and Water (CEEW) and Natural Resources Defense Council (NRDC), undertakes an annual study on jobs and skilling in domestic solar and wind energy sector. The study outlines skill gaps and estimates existing and potential jobs resulting from the advent of new and emerging clean energy technologies. It also focuses on key skilling initiatives required in order to meet the 2030 progressive renewable energy capacity deployment goal. The latest edition of the report released in January, 2023 builds on the earlier issue briefs on India’s Expanding Clean Energy Workforce (2022), Powering Jobs Growth with Green Energy (2019), Greening India’s Workforce (2017) and provides an updated analysis on the number of direct jobs created from the solar and wind energy sectors in the financial year 2022.



## Activities of SCGJ during 2022- 2023

### **3. Assessments of biomass demand-supply value chain and entrepreneurship development for pellet production in selected clusters / districts.**

SCGJ has undertaken a study through M/s Bio Trend Energy to assess biomass demand-supply value chain and scope of entrepreneurship development for pellet production. The study conducted Skill gap study, prepare occupation map and identify probable job roles in collection and manufacturing of biomass pellet. It has resulted in development of 2 Qualifications in the identified job roles in supply and demand aggregation, transportation and storage of feedstock operations and services for biomass pellet manufacturing. The study was completed in March, 2023.

### **4. Skill Gap Study on Plastic Waste Management:**

Skill Council for Green Jobs has supported Indian Pollution Control Association (IPCA) for skill gap studies and identification of job roles for plastic waste management with the view to create training modules for entrepreneurship and livelihood generation. The report explains the spectrum of business opportunities that are offered by the plastic waste management sector in its various applications in the form of occupational mapping. It is estimated that currently the sector provides direct employment to around 1 crore people, and 10 times more indirectly. The opportunities are going to increase manifold in the years to come, considering the increasing growth rate in the generation of plastic waste. The study was completed in March, 2023. The study has resulted in developing 3 qualifications.

### **5. Green House Gas Accounting Guidelines :**

SCGJ has given an assignment to M/s Net Zero Think, Bangalore to prepare greenhouse gas accounting guidelines for assessment of GHG accounting and the expected job roles involved in this sector. The Guidelines have been prepared and are now being used to develop qualifications and a micro credential for training and skill development on the subject of Green House Gas accounting.

### **6. Landscape of Green Jobs in India supported by JP Morgan Chase:**

Skill Council for Green Jobs and Sattva Consulting supported by J P Morgan conducted a study that mapped the landscape of green jobs in India, with an aim to identify vibrant sectors creating green jobs, opportunities in the skills ecosystem, and outline needs and challenges of vulnerable groups. In this context, the study report titled "Gearing up the Indian Workforce for a Green Economy" was released by Shri Atul Kumar Tiwari, Secretary, Ministry of Skill Development and Entrepreneurship during an event organised on May 16 2023 at New Delhi. The report identifies employment potential in the green economy and the catalytic role that philanthropy can play in addressing skills needs and ensuring equitable access to green jobs. It estimates that up to 35 million green jobs will be created by 2047 across emerging and traditional sectors. Sectors such as renewable energy, green hydrogen, waste management, electric vehicles, sustainable textiles and green construction are key sectors that will drive green growth in India and host the highest number of green jobs, especially in urban and peri urban areas.

## **Consultancy Project**

SCGJ has expanded its activities by taking up consultancy projects in the area of Skilling for Green Jobs sectors. So far, following assignments have been completed by SCGJ:

**1 .The project "Simultaneous intervention of renewable energy systems and skilling for smart model villages of Haryana" adopted by Hon'ble President of India** has been completed and final reports submitted to REC foundation.

### **2. Short term and RPL training of Safai Karamcharis and their dependents supported by NSKFDC:**

SCGJ has completed RPL training of 21,000 Safai Karamcharis, waste pickers and desludging operators. SCGJ has also conducting 242 workshops on "Prevention of Hazardous Cleaning of Sewers and Septic Tanks" as a special assignment from NSKFDC. NSKFDC has sanctioned short term training of 200 dependents of safai karamcharis in solar domain and RPL of 6000 safai karamcharis.



## Activities of SCGJ during 2022- 2023

**3. World Bank Grid connected Rooftop SPV Technical Assistance Programme:** Skill Council for Green Jobs is the capacity building and skill development partner under The World Bank Grid connected Rooftop Solar PV Technical Assistance (TA) Program. The assignment has been completed.

**4. RPL training of 4000 SafaiKaramcharis of NOIDA supported by HCL foundation, Noida.**

**5. Online Solar Energy Training program for ISA member countries:**

During 2020-2022, SCGJ has provided structured training 1300 to bankers, Solar Entrepreneurs and others from 82 ISA member countries on solar proposal evaluation, solar roof top systems and solar mini grids. It was a 5 days online training program (10 structured lectures of 1.5 hrs each). 15 batches have been conducted including 5 batches in French and Spanish language.

**6. DFID supported activity on developing QPs Bio-CNG:**

A study was commissioned by FCDO (formerly DFID), under the Skills for Jobs Programme, in partnership with Skill Council for Green Jobs (SCGJ) to help identify new age and emerging job roles in the Bio-CNG plants which would further guide development of National Occupational Standards. DFID in partnership with KPMG and SCGJ has developed 4 Job Roles in Operations and Maintenance of Bio-CNG plants.

**7. Indian Rooftop PV Installers Skilling & Employment (IRISE) project of GIZ:**

SCGJ has completed 'Indian Rooftop PV Installers Skilling and Employment (IRISE)' project supported by GIZ to improve PV rooftop installation quality through Up-skilling Indian solar installers (certified Suryamitras) through conducting 10 days training batch. One of the key objectives of the project is to upskill 1500 "certified suryamitras" through 30 training partners. Over 70 trainers have also been trained and certified by the German Master Trainers and Experts through a virtual TOT conducted.

**8. Climate Policy Initiative supported project on Solar Rooftop Entrepreneurship trainings:**

The Climate Policy Initiative of KfW had sanctioned a project to SCGJ to drive adoption of rooftop solar in Micro, Small and Medium Enterprises (MSMEs). The project envisaged Entrepreneurship training to 40 candidates. The project has resulted in Solar Rooftop Entrepreneurship training to 53 candidates in Delhi, Hyderabad and Ahmedabad.

### Ongoing / New Consultancy Projects during 2022-23 (August 2023)

**1. CSR project from SBI Card**

: SCGJ had received CSR Project funded by SBI Card on Design, supply, erection, and commissioning of 300 kWp Grid tied Solar PV plants at government hospitals in Delhi. As a part of the project, SCGJ installed 120 kWp grid tied solar power plant installed on Pt. Madan Mohan Malviya Hospital, Malviya Nagar, Delhi and 180 kWp in the Safdarjung Hospital. On successful completion of the first part of the project, SBI Cards have further sanctioned one more project for Design, supply, erection and commissioning of 450 kWp grid tied Solar PV plant in Civil Hospital, Gurugram (150 kWp) and Government College for Girls, Sector14 (300 kWp) in Gurugram, Haryana. These projects have been completed during the year. SCGJ is also providing skilling and training for maintenance of the projects. On the strength of these projects SBI cards have been recognised for their contribution in Environment.

**2. UNDP Project on Green Electric Vehicle Charging Infrastructure and Solar Cold Storage:**

UNDP has awarded to Skill Council for Green Jobs a project titled 'Development of 4 nos. of qualification packs and Skilling 1000 persons on Green Electric Vehicle Charging Infrastructure and Solar Cold Storage'. As part of this project 4 qualifications on advanced and basic qualification for both Solar cold storage and Solar EV charging infrastructure have been developed by SCGJ and approved by NCVET. The project has successfully completed training and certification of 1000 trainees across 5 qualifications on PV Installer (Suryamitra), Solar cold storage and Solar based EV charging infrastructure.



## Activities of SCGJ during 2022- 2023

### 3. Climate Policy Initiative (CPI) Funded Entrepreneurship development:

Climate Policy Initiative (CPI) has , during the current year supported SCGJ in implementing 2 physical training batches on Solar Rooftop Entrepreneurship. This is an extension of the previous phase of the project where 53 candidates were trained as Solar Rooftop Entrepreneurs. In the current phase, 62 candidates have been trained and certified on “Solar Photovoltaic Entrepreneur” at Bhubaneswar, Odisha and New Delhi. This is a mixed job role with suitable focus on entrepreneurial opportunities across rooftop, ground mounted civil & electrical functions along with solar pumping business space.

### 4. The World Bank Project towards introducing Vocational Education in Renewable Energy in Schools:

During the year, The World Bank has sanctioned a project to SCGJ to identify and recommend possible innovations to strengthen the design and delivery of vocational skills in Renewable Energy (focus on solar energy), through structured research in schools for children aged 15 -18 years (Class 9-12) across Government Schools in Gujarat. This research has provide recommendations on incorporating vocational skills in renewable energy which can facilitate school-to-work transition. This has also outlined key Insights and suggestions to develop and customize training programs with a focus on vocational solar skills. This study has its importance in the light of the New Education Policy (2020) where Vocational Education is being actively integrated with general academic education at school as well as college level. **The study has resulted in developing 4 qualifications on solar PV suitable for continuing education of class 9<sup>th</sup> , 10<sup>th</sup> , 11<sup>th</sup> and 12<sup>th</sup> .**

**5. The GIZ assignment:** GIZ has given an assignment to SCGJ for compiling a baseline desk study on the existing green skill development program in India. The assignment is to draw-up a sector wise list of all potential certifying bodies offering curricula for green skills development program and draw a list of all sectors which can be considered as Green. The assignment is up to 30<sup>th</sup> September, 2023.

### 6. The GIZ assignment:

GIZ has given an assignment to SCGJ with an objective to develop generic green skills modules under project ASCENT. The assignment is to study three logistics courses namely Shipping Management, Logistic Management and warehouse Management and analyse the areas where generic green skills can be introduced. SCGJ will also develop appropriate NOS and its content. The assignment is up to 31<sup>st</sup> March, 2024.

## Other Major Activities :

### Entrepreneurship program:

SCGJ is now focusing on developing an Entrepreneurship program around all its major qualifications including solar energy, solar power projects, solar water pumping, waste management, Bio Energy ,Green Hydrogen etc.

Four , two days physical training on Solar Rooftop Entrepreneurship were organized by SCGJ during the year 2022 with a total of 115 candidates at its in house training facility in New Delhi, Hyderabad, Ahmedabad and Bhubaneswar.

This activity is proposed to be enhanced during the year 2023-24 with about 10-12 Entrepreneurship development programs.

### Training for ISA Member Countries

Skill council for Green Jobs in collaboration with International Solar Alliance delivered the series of Online Training program on various topics for ISA Member Countries. During the year, over 700 candidates has been Trained for participants from more than 30 different countries participated in this training program. The 6 training batches were conducted during 2022-23. The Training was delivered on Scaling Solar Applications for Agriculture Use (Solar PV Water Pumping Training).



# Activities of SCGJ during 2022- 2023

## World Skill 2022

Considering that Renewable Energy was introduced for the first time in World Skills, SCGJ had taken a unique initiative and organised “Foundation Programme on Renewable Energy for India Skills 2022” to train and prepare interested registered candidates for India Skills 2021 and World Skills 2022 under the guidance of our World Skills experts and RE master trainers. After organizing regional competitions in Punjab and Andhra Pradesh, National Skill Competition was organized in Delhi on Renewable Energy and Water technology. 5 medal holder candidates from National Competition in both sectors were trained to participate in the World Skills special edition 2022. Skill Council for Green Jobs organized a felicitation ceremony to award students who would be representing India at the World Skills in renewable energy trade.

Mr. Praveen Kumar Giri from CV Raman Global University, Odissa represented India in the Water Technology trade at WorldSkills Competition 2022 held in Stuttgart, Germany and secured Silver Medal. In the Renewable Energy trade, India was represented by Mr Shivam Chaurivar from Lakshmi Narnia College of Technology, Bhopal. MP. The Competition was held in Kyoto, Japan from 15<sup>th</sup> -18<sup>th</sup> October, 2022.



## Azadi Ka Amrit Mohotsav

SCGJ has been celebrating ‘Azadi ka Amrit Mahotsav’ by conducting a series of webinars by eminent Speaker in diverse field/sectors so to enhance knowledge and learning and bring forth various development and innovation in Renewable Energy (RE) and waste management. So far, 90 lectures have been organized on different topics. During 2022-23 and up to 18<sup>th</sup> August,2023 68 webinars were organised.

## One Day Workshop on Prevention of Hazardous Cleaning Sewers and Tanks

SCGJ organises One Day Workshop on Prevention of Hazardous Cleaning Sewers and Tanks, with the help of the NSKFDC and Municipal Corporation and other local bodies. The workshop highlights of the Manual Scavengers Rehabilitation Act 2013. It mainly covers as to how to save life of Manual Scavengers and educate them on safe operations of Cleaning Sewers and Tanks . During 2022-23, SCGJ has successfully completed 20 workshops in 6 States and in 19 Municipalities. SCGJ has received an assignment of organising 71 more Workshop during 2023-24.

## Membership of SCGJ and MOUs with Industry

One of the most important activities undertaken during this period was to broaden the industry base of SCGJ and develop industry associates. Over 650 industry, mainly MSME were contacted and informed about the activities of SCGJ. Industries added this year to our Membership are 26 in number. SCGJ has so far signed MoUs / LoAs with 69 industry / organizations with a view to cooperate in its activities and also help in achieving placement of SCGJ certified candidates.



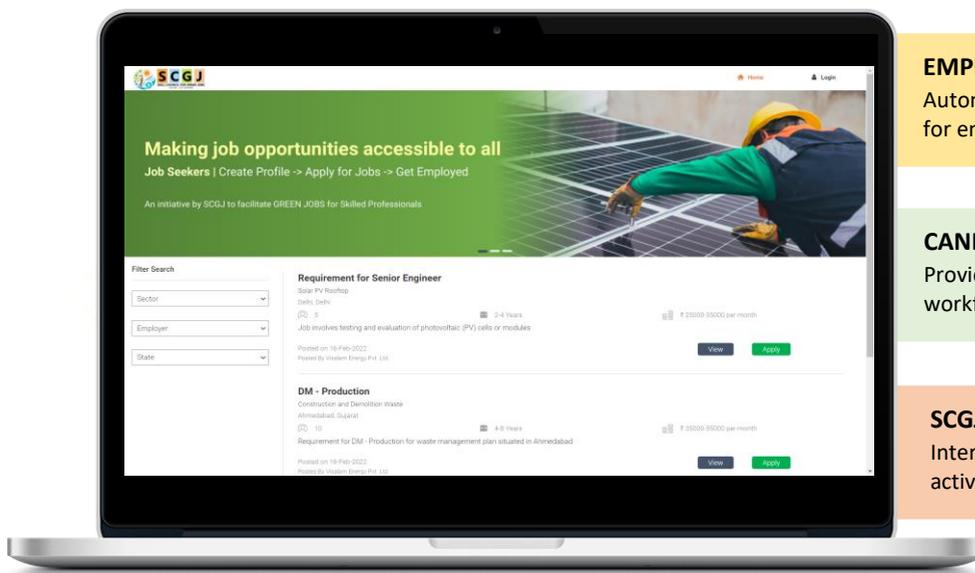
# Activities of SCGJ during 2022- 2023

## SCGJ Rozgar Portal (<https://www.scgjrozar.in/>)

SCGJ Rozgar Portal is a unique technology intervention which makes job opportunities for skilled professional in green energy sector accessible by connecting them with coveted employers across India.

This technologically advanced solution is the brainchild of Skill Council for Green Jobs, which automates the entire talent acquisition process for employers, provides job opportunities to skilled workforce and help SCGJ make necessary interventions in Skill development activities to meet industry needs.

On this platform employers create and publish the job post, monitor/track job applications while the candidates can register, apply for the job and track their application.



### EMPLOYER

Automates talent acquisition process for employers



### CANDIDATE

Provides job opportunities to skilled workforce in green energy sector

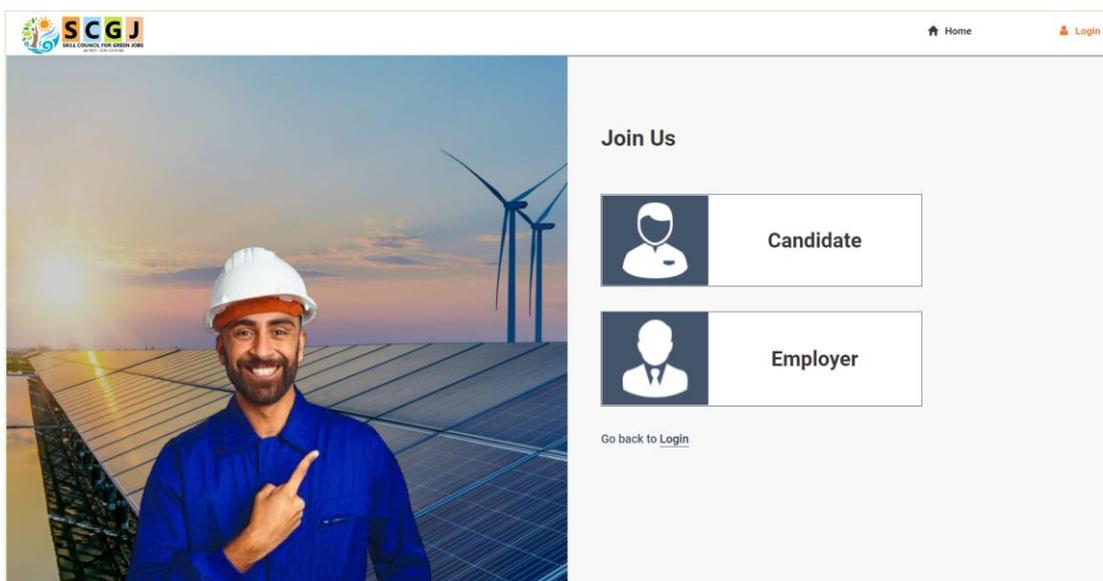


### SCGJ ADMIN

Interventions in skill development activities to meet industry needs



Rozgar Portal will support SCGJ mission to provide **10 Lakhs Jobs by 2030**



Scan to know more about  
**SCGJ Rozgar Portal**



# Activities of SCGJ during 2022- 2023

## Advocacy

### SCGJ participated in the following prominent Skill related and Green Businesses related Events during 2022-23

S.No.	Events/ Meeting/ Workshops	Date
1	Junior Skill Competition	02-04-2022
2	IRENA visit on SCGJ office	25-04-2022
3	Consultation meeting with International Labour Organization on 'Green Jobs and Just Transition Policy Readiness Assessment'.	20-05-2022
4	NCVET recognize Green Jobs SSCAs Awarding Body for Green Business and Environment Sector	31-05-2022
5	SCGJ celebrated "World Environment Day"	05-06-2022
6	ReCycle - Cycling for Waste Segregation for its effective ReCycling & UpCycling" on "World Environment Day"	05-06-2022
7	Meeting with CEO of Powercon Venture Pvt. Ltd. and also of PowerSun India Pvt. Ltd., Mr. Praveen Kakulte, and team	08-06-2022
8	Oppurtunities for skills in Green jobs	20-06-2022
9	SCGJ celebrated "International Day of Yoga"	21-06-2022
10	Meeting in the University of Delhi regarding the National Education Policy (NEP) mandate to integrate higher education with skill	22-06-2022
11	Skill Council for Green Jobs (SCGJ) by the government officials of Togolese Republic (Togo) to collaborate at various levels	22-07-2022
12	SCGJ meeting with "Power for All" delegates	02-08-2022
13	Virtual Launch of Urjamitra Solar training "Preparing Skilled force for a Just Energy Transition	12-08-2022
14	SCGJ celebrates our nation's 75th Independence day with fervor, by participating in Har Ghar Tiranga abhiyaan	15-08-2022
15	Online training on Solar Energy for officers of CE R&D of MES	22-08-2022
16	On the commemoration of the "International Day of Clean Air for Blue Skies" on 7th September, 2022, "Jobs for Clean Air Report" has been released	07-09-2022
17	Social Entrepreneurship in Biofuels	09-09-2022
18	SCGJ organize Convocation ceremony on Vishwakarma Day to honor and certify outstanding skilled personnel in Solar Energy and Waste Management	17-09-2022
19	SCGJ organized "Online workshop to create awareness on Carbon Neutrality in Defence organization	22-09-2022
20	SCGJ participated on #Powering Jobs Census 2022	27-09-2022
21	SCGJ welcomed Mr. Manikandan (Project Manager), and Mr. Pankaj Sati (Project Co-ordinator), of Redington Foundation for the meeting on "Solar Skill Training"	15-11-2022
22	Roundtable Discussion - Workforce Readiness Towards Faster Adoption of Evs in India	22-11-2022
23	SCGJ organized 2 days of Training on "Solar Rooftop Entrepreneur"	18-01-2023
24	Skill Council for Green Jobs in partnership with USAID's South Asia Regional Energy Partnership (SAREP), completed a day-long, in-person training workshop on 'Techno-economic Considerations for the Design of Green Hydrogen Projects' in New Delhi	03-02-2023
25	Jal Urja Mitra Skill Development programme as per qualification pack under Skill Council for Green Jobs on Capacity building for Technician has been sponsored by Ministry of New and Renewable Energy (MNRE), GOI	10-02-2023
26	Dr. Praveen Saxena (CEO), SCGJ addressed at the 13th World PetroCoal Congress & 4th World Future Fuel Summit 2023	15-02-2023
27	SCGJ had the privilege to exchange the MoU with Bundesverband Solarwirtschaft E.V., Germany (BSW Solar)	23-02-2023
28	Online training program on "Green Hydrogen Technology"	06-03-2023
29	American India Foundation livelihoods event, 'Future of Livelihoods', where SCGJ is the Knowledge Partner	15-03-2023
30	Skill Council for Green Jobs announces "Online Course on Entrepreneurship in Paper Bag Manufacturing"	27-03-2023



# Activities of SCGJ during 2022- 2023

## Webinar:

S.No.	Events/ Meeting/ Workshops	Date
1	Webinar: Waste Management - Importance of awareness and its effects	01-04-2022
2	Webinar: Pharmaceutical Pollution & Sustainable Development Goals: Are they going the right way?	08-04-2022
3	Webinar: Environment Friendly Building for Sustainable Development	22-04-2022
4	Webinar: Challenges in the Bio-Energy Sector in India & Way Ahead	29-04-2022
5	Webinar: Air Pollution Mitigation through Smart Cities Program	06-05-2022
6	Webinar: Emotional Wellness at Workplace	13-05-2022
7	Webinar: The Growth of Wind Energy in India and Underlying Opportunities	20-05-2022
8	Webinar: Phasing-out Hazardous Plastic - A Transformational Livelihood-based Approach	27-05-2022
9	Webinar: From Flower Trash to Cash: Recycling and Reuse through Value Addition	03-06-2022
10	Webinar: Production & Use of Biomass Pellets as Green Fuel	10-06-2022
11	Webinar: Sustainable Development: A Right Approach to the Indian Economy	17-06-2022
12	Webinar: Unlocking Green Job Opportunities in India's Clean Energy Sector	24-06-2022
13	Webinar: Introduction to Various Energy Storage System: Parameters, Role, and Applications	01-07-2022
14	Webinar: Carbon Sinks - Method and Type: Pathway to achieving Net Zero Emission	08-07-2022
15	Webinar: Steering Towards Sustainability	15-07-2022
16	Webinar: Burnout to Burn Bright	22-07-2022
17	Webinar: Creating Wealth from Waste: Opportunity and Challenges	29-07-2022
18	Webinar: Rooftop Solar Project: Zero Investment, Savings from Day 1, Moving towards Net Zero	05-08-2022
19	Webinar: Agri-Voltaic - A Green Route to Address Energy and Food Crisis	12-08-2022
20	Webinar: Biodiversity for Sustainable Development	26-08-2022
21	Webinar: Waste - An abundant and useful resource	16-09-2022
22	Webinar: Electrification of Unelectrified Villages through Solar Microgrid	23-09-2022
23	Webinar: A Circular Economy & Integrated Waste Management	30-09-2022
24	Webinar: Role of Green and Energy Efficient Buildings towards Net Zero Target	07-10-2022
25	Webinar: India at Seventy Five: Sustainable Development, Renewable Energy and Posterity	14-10-2022
26	Webinar: India's nationally determined contribution towards United Nations Framework Convention on Climate Change (UNFCCC)	21-10-2022
27	Webinar: Potential of Hydrogen as a Clean Fuel for Transportation in Today's Perspective	28-10-2022
28	Webinar: Decentralised approach for building climate resilience for skill and entrepreneurship development	04-11-2022
29	Webinar: The Rise of the Green Hydrogen Economy	11-11-2022
30	Webinar: Electronic Waste Management: Seize the Opportunity	18-11-2022
31	Webinar: Use of Concentrating Solar Thermal Technology for Industrial and Institutional Sectors in India	25-11-2022
32	Webinar: Renewable Energy Transition in India: Opportunities and Challenges	02-12-2022
33	Webinar: Unravel the Intricacies of Agricultural Residue Bioprocessing and Bioeconomy Opportunities	09-12-2022
34	Webinar: Gender and Sustainability Issues: Is food and energy security possible for women at the grassroots?	16-12-2022
35	Webinar: Development of Geothermal Energy Resources of India	23-12-2022
36	Webinar: Can Solar Photovoltaic Technology replicate the feat of Mobile Telephony today?"	30-12-2022
37	Webinar: Addressing Equity, Sustainable development and Climate Change through Green Energy Sources"	06-01-2023
38	Webinar: Financial Management for Micro, Small and Medium Entrepreneurs	13-01-2023
39	Webinar: Synthesizing DRE Experiences for NZE Pathways	20-01-2023
40	Webinar: The Need and Value of Frugal Innovations for accomplishing Sustainable Development & Sustainable Development Goals	27-01-2023
41	Webinar: Green Hydrogen Production through advanced biomass-steam gasification technology and a detailed comparison with the electrolysis process	03-02-2023
42	Webinar: National Bioenergy Programme	10-02-2023
43	Webinar: ESG and Environment Compliance	24-02-2023
44	Webinar: Skill Council for Green Jobs & Jakson Group Celebrates World Sustainable Energy Day 2023 under "Azadi ka Amrit Mahotsav" 75 Webinar Series of SCGJ, webinar on "Solar Power: Energy Transition = Energy Security   Green Energy	28-02-2023
45	Webinar: Inclusive Circular Economy: Upskilling waste workers for a dignified livelihood	03-03-2023
46	Webinar: Sustainable Development Programs: Information Interchange & Transparency with Youth	10-03-2023
47	Webinar: Paradigm Shift in Energy Sector through Green Hydrogen: Strengths and Gaps	17-03-2023
48	Webinar: Floating Solar Design, Engineering and Opportunities	24-03-2023
49	Webinar: EV Charging Infrastructure: Beginners Guide Made Easy	31-03-2023



# Activities of SCGJ during 2022- 2023

## Some more important activities of SCGJ

Honorable Mr. Francesco La Camera, Director General, International Renewable Energy Agency (IRENA), and his team visited SCGJ office on 25th April to discuss strategic partnership, Green jobs and education and Green Hydrogen.



Dr. Praveen Saxena (CEO), SCGJ addressed at the 13th World PetroCoal Congress & 4th World Future Fuel Summit 2023



SCGJ signed MoU with International Academy Of Environmental Sanitation and Public Health(IAESPH) for conducting activities in Solid Liquid Waste management under SBM 2.



SCGJ invited as Project Implementing Agency for YUVA 2.0 Project, Delhi Police.

# Activities of SCGJ during 2022- 2023



On the commemoration of the "International Day of Clean Air for Blue Skies" on 7th September, 2022, "Jobs for Clean Air Report" has been released.



Meeting in the University of Delhi regarding the National Education Policy (NEP) mandate to integrate higher education with skill on 22nd June 2022.



SCGJ celebrated an esteemed GC member enrolling themselves as an employer on the Green Jobs Rozgar Portal.



Dr. (Mrs.) Parveen Dhamija, Advisor, Skill Council for Green Jobs participated as a Panelist.



**Dr KK's HCFI**  
HEART CARE FOUNDATION OF INDIA

**PERFECT HEALTH MELA**  
EXHIBITIONS, COMPETITIONS, CHECK UPS & ENTERTAINMENT

## Chat with Dr KK's HCFI

**Topic: Opportunities for Skills in Green Jobs**

Date: Monday, June 20, 2022  
Time: 2 PM



**Dr. (Mrs.) Parveen Dhamija**  
Advisor, Skill Council for Green Jobs  
and Former Advisor / Scientist G,  
Ministry of New and Renewable Energy,  
Govt. of India



**Mr. Vivek Kumar**  
Trustee HCFI



**Dr. Anil Kumar**  
Director, HCFI and  
Ex-Director (Environment),  
Govt. of Delhi

Dr.(Mrs.) Parveen Dhamija, Advisor, Skill Council for Green Jobs participated as Panelist.



SCGJ organized Convocation ceremony on Vishwakarma Day to honor and certify outstanding skilled personnel in Solar Energy and Waste Management



# Activities of SCGJ during 2022- 2023



- ❖ SCGJ in association with Central Board of Irrigation and Power planted various saplings.
- ❖ SCGJ installed a Solar PV Port. It is also devised as a sitting arrangement with overhead shade at the premises of the Central Board of Irrigation and Power(CBIP) building.




A fruitful meeting was held with Ms. Devanjana Choudhuri, Country Director, India, Power For All, and Ms. Aashna Aggarwal, Manager, Power For All in SCGJ office.



A visit to Skill Council for Green Jobs (SCGJ) by the government officials of Togolese Republic (Togo) to collaborate at various levels.

SCGJ in association with Growdiesel Climate Care Council organized an event "ReCycle - Cycling for Waste Segregation for its effective Re-Cycling & Up-Cycling."

# Activities of SCGJ during 2022- 2023



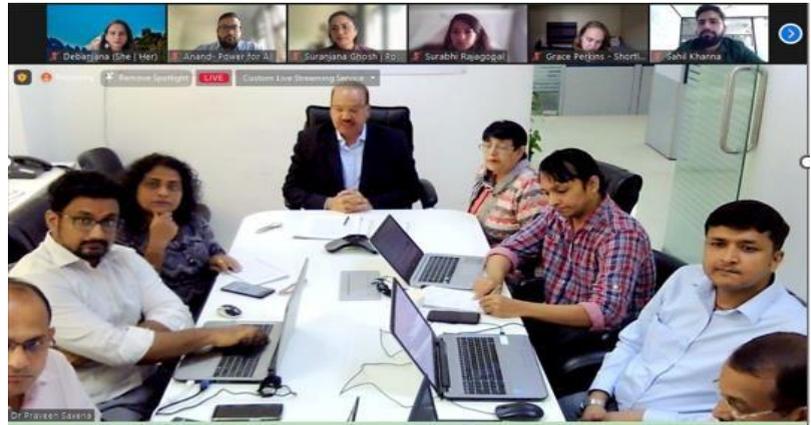
Skilling & Training to Farmers/Aggregators/FPOs under the Project Supported By HPCL



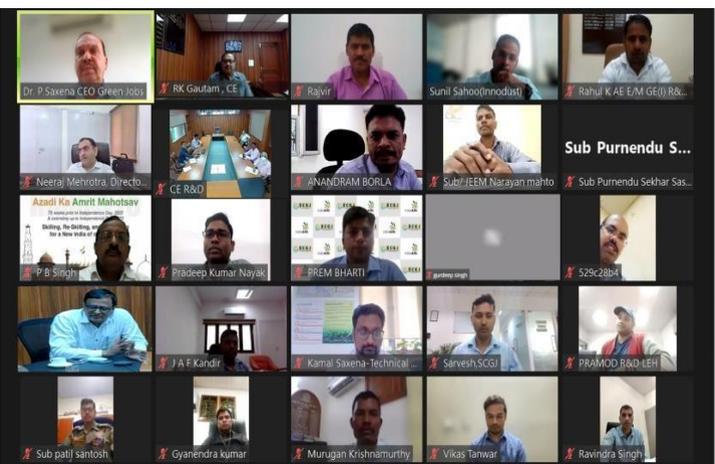
SCGJ had a consultation meeting with International Labour Organization on 20th May on 'Green Jobs and Just Transition Policy Readiness Assessment'.



Invitation to the Virtual Launch of Urjamitra Solar training "Preparing Skilled force for a Just Energy Transition".



SCGJ participated on 'Powering Jobs Census 2022': Focus on India organized by Power for All.



Skill Council for Green Jobs (SCGJ) had conducted online training on Solar Energy for officers of CE R&D of MES from 22nd August to 26th August 2022.



Skill Council for Green Jobs organized "Online workshop to create awareness on Carbon Neutrality in Defence organization" on Thursday, the 22nd of September, 2022.



# Balance Sheet FY 2022 - 2023

Skill Council for Green Jobs





# Balance Sheet FY 2022 - 2023

## SKILL COUNCIL FOR GREEN JOBS BALANCE SHEET AS AT 31.03.2023

		( Amount - Rs. )	( Amount - Rs. )
CORPUS / CAPITAL FUND AND LIABILITIES	Schedule	31.03.2023	31.03.2022
CORPUS / CAPITAL FUND	1	-	-
RESERVES AND SURPLUS	2	7,75,40,218	8,11,14,807
EARMARKED / ENDOWMENT FUNDS	3	4,42,44,980	4,51,79,110
SECURED LOANS AND BORROWINGS	4	-	-
UNSECURED LOANS AND BORROWINGS	5	-	-
DEFERRED CREDIT LIABILITIES	6	-	-
CURRENT LIABILITIES AND PROVISIONS	7	2,21,56,605	1,41,45,613
<b>TOTAL</b>		<b>14,39,41,803</b>	<b>14,04,39,530</b>
<b>ASSETS</b>			
FIXED ASSETS	8	9,47,693	8,86,101
INVESTMENTS - FROM EARMARKED / ENDOWMENT FUNDS	9	-	-
INVESTMENTS - OTHER	10	-	-
CURRENT ASSETS, LOANS, ADVANCES ETC.	11	14,29,94,109	13,95,53,429
MISCELLANEOUS EXPENDITURE ( to the extent not written off or adjusted )		-	-
<b>TOTAL</b>		<b>14,39,41,803</b>	<b>14,04,39,530</b>
SIGNIFICANT ACCOUNTING POLICIES	24		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	25	-	

"As per our report of even date annexed"

For VRSM & Co.

Chartered Accountants

FRN: 016313C

*Mukesh Soni*

CA. Mukesh Soni

Partner

M. No.: 424525

Place: New Delhi

Date: 17 Aug, 2023



For Skill Council For Green Jobs

*[Signature]*  
Chairman

*[Signature]*  
Treasurer

Secretary





# Balance Sheet FY 2022 - 2023

**SKILL COUNCIL FOR GREEN JOBS  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2023**

Particulars	Schedule	(Amount - Rs.)	
		31.03.2023	31.03.2022
<b>INCOME</b>			
Income from Sales / Services	12	-	-
Grants / Subsidies	13	-	-
Fees / Subscriptions Received	14	13,37,95,722	11,82,78,527
Income from Investments ( Income on Invest. from earmarked/endow. Funds transferred to Funds.)	15	-	-
Income from Royalty, Publication etc.	16	-	-
Interest Earned	17	53,50,810	60,86,537
Other Income	18	7,04,745	11,47,323
Increase / (decrease) in stock of Finished goods and works-in-progress	19	-	-
<b>TOTAL (A)</b>		<b>13,98,51,277</b>	<b>12,55,12,387</b>
<b>EXPENDITURE</b>			
Establishment Expenses	20	12,87,66,796	10,79,72,246
Other Administrative Expenses etc.	21	1,41,88,497	76,42,970
Expenditure on Grants, Subsidies etc.	22	-	-
Interest	23	-	-
Depreciation ( Net Total at the year-end - corresponding to Schedule 8 )		4,70,573	3,87,009
		<b>14,34,25,866</b>	<b>11,60,02,225</b>
<b>Excess of Income over Expenditure/(Excess of Expenditure over Income)</b>		<b>-35,74,589</b>	<b>95,10,162</b>
Transfer to General Reserve		35,74,589	-95,10,162
<b>Net Surplus/Deficit</b>		<b>-</b>	<b>-</b>
SIGNIFICANT ACCOUNTING POLICIES	24		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	25		

"As per our report of even date annexed"

For VRSM & Co.

Chartered Accountants  
FRN: 016313C



CA. Mukesh Soni  
Partner  
M. No.: 424525

Place: New Delhi  
Date: 17 Aug, 2023

For Skill Council For Green Jobs

 Chairman  
 Treasurer  
 Secretary





# Balance Sheet FY 2022 - 2023

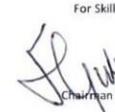
**SKILL COUNCIL FOR GREEN JOBS**  
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2023

	NBCFDC Fund	SCGJ D Fund	NSKFDC Fund	RECL Fund	JP Morgan Fund	(Amount - Rs.) 31.03.2023	(Amount - Rs.) 31.03.2022
<b>SCHEDULE 3 - FARMARKED / ENDOWMENT FUNDS</b>							
a) Opening balance of the funds	(2,83,409)	5,23,20,500	(23,93,041)	(44,64,940)	-	4,51,79,110	7,72,76,853
b) Additions to the Funds :							
i) Funds Received *	7,57,718	-	1,28,24,425	31,47,276	56,68,000	2,23,97,419	1,88,40,762
<b>TOTAL (a + b)</b>	<b>4,74,309</b>	<b>5,23,20,500</b>	<b>1,04,31,384</b>	<b>(13,17,664)</b>	<b>56,68,000</b>	<b>6,75,76,529</b>	<b>9,61,17,615</b>
c) Utilisation / Expenditure towards objectives of funds							
i. Capital Expenditure							
- Fixed Assets	-	-	-	-	-	-	-
- Other	-	-	-	-	-	-	-
ii. Revenue Expenditure							
- Transfer to General Reserve	-	-	-	-	-	-	2,94,98,929
- Training Expenses	5,72,148	-	1,37,64,291	4,01,975	41,31,920	1,88,70,334	1,84,60,076
- SCGJ Development Expenses	-	44,61,215	-	-	-	44,61,215	29,79,500
<b>TOTAL (C)</b>	<b>5,72,148</b>	<b>44,61,215</b>	<b>1,37,64,291</b>	<b>4,01,975</b>	<b>41,31,920</b>	<b>2,33,31,549</b>	<b>5,09,38,505</b>
<b>NET BALANCE AS AT THE YEAR- END (a + b - c)</b>	<b>(97,839)</b>	<b>4,78,59,285</b>	<b>(33,32,907)</b>	<b>(17,19,639)</b>	<b>15,36,080</b>	<b>4,42,44,980</b>	<b>4,51,79,110</b>
*NSKFDC, NBCFDC, JP Morgan and RECL Fund was received in F.Y. 2022-23 as per applicable conditions.							

Place: New Delhi  
Date: 17 Aug, 2023



For Skill Council For Green Jobs

 Chairman    
  Treasurer    
  Secretary





# Functional Details

Skill Council for Green Jobs





# Functional Details of SCGJ

## Functional Divisions

### Key Performance Areas of each Department



Standards & Research



Assessment & Assurance



Marketing & Partnerships

- ✓ Occupational Mapping and Skill Gap Analysis
- ✓ Development of Qualification Packs based on Industry requirement
- ✓ Curriculum and Courseware Development
- ✓ Interact with bilateral and multilateral agencies
- ✓ Coordination with Universities and Colleges for NSQF alignment
- ✓ All technical matters
- ✓ Implementation of CSR Projects

- ✓ Affiliating suitable training partners and assessment agencies
- ✓ Organization of meetings of Affiliation Sub-committee
- ✓ Mapping of Training Centres on National Portal with unique identification numbers
- ✓ Training of Trainers
- ✓ Planning of Delivery of Training by affiliated Training Centres as per annual targets
- ✓ Assessment through third party
- ✓ Certification of candidates
- ✓ Coordination with NSDC and uploading of data on National Portal

- ✓ Improving industry linkages. Finding opportunities to Partner with countries, organizations, institutes & multi & bi lateral agencies
- ✓ Corporate Communication
- ✓ MoUs with Industry and other Skill Development & CSR agencies
- ✓ Improving visibility of Skill Council for Green Jobs & COEs
- ✓ Marketing, Social media & Print media management
- ✓ Organization of AGM and Governing Council Meetings
- ✓ National Apprenticeship Promotion Scheme (NAPS) & special projects.
- ✓ All matters relating to Membership of SCGJ, including its growth
- ✓ Participation & organization of sector specific events, Conferences, Job fairs and Exhibitions



# Standards & Research Group

Skill Council for Green Jobs





# Standards & Research Group 2022 - 2023

The Standards and Research is the Technical Wing of Skill Council for Green Jobs the major responsibility and achievements of the division during 2022-23 are as follows.



Standards and Research Group primarily design and develop 'National Occupational Standards' (NOSs) and 'Qualifications' (also called as Qualification Packs or Job roles) across Green Business domain, as per the 'National Skills Qualification Framework' (NSQF). These are approved by The National Skills Qualification Committee (NSQC) that is anchored at The National Council for Vocational Education and Training (NCVT) which is the regulator of national skills ecosystem. Since Qualifications along with their curriculum and training content/courseware etc are developed and reviewed/rationalized based on skills demand and Jobs available across the green business industry, this process involves extensive interaction with the Sector specific industry, organizations and experts. Trainings are delivered in alignment with nationally approved qualifications developed by SCGJ. SCGJ also develop Training Courseware including 'Participant Handbooks' (for trainees) and 'Facilitator Guides' (for trainers) for all its Qualifications to supplement the training programs.

## Major Achievements during 2022-23

### a) Occupational Mapping and Skill Gap Analysis

- ✓ During the year, SCGJ initiated Occupational Mapping, Skill Gap Analysis along with Development of National Occupational Standards across a range of new segments including Green Hydrogen production, Bio-CNG, Grid based plus solar charging for EV, rainwater harvesting along with some Solar job roles supporting Vocationalisation in schools etc. New QPs are also proposed to be developed for new segments including ESG, carbon accounting, Green hydrogen value chain, floating solar, Solar PV-Wind Hybrid domain etc. to meet the future requirements in evolving technology and market segment.
- ✓ As part of an annual study on jobs and skilling in domestic solar & wind energy sector undertaken by SCGJ along with Council on Energy, Environment and Water (CEEW) and Natural Resources Defense Council (NRDC), an **update on India's Expanding Clean Energy Workforce** was released. This report provided an updated analysis on the number of direct jobs created from the solar and wind energy sectors in FY22, building on earlier analyses by the Council on Energy, Environment and Water (CEEW), Natural Resources Defense Council (NRDC), and Skill Council for Green Jobs (SCGJ). It also introduces the employment and skilling insights of standalone battery energy storage system (BESS) deployment. In addition, it provides information about updated trainings and skilling numbers from SCGJ across the renewable energy and green jobs' sectors.
- ✓ SCGJ in partnership with Sattva Consulting and with support from J.P. Morgan implemented a study on Green Jobs landscape which aimed to identify Big Bet initiatives that can address skills needs to set the pace for India's green growth. The study identified employment potential in the green economy and the catalytic role that philanthropy can play in addressing skills needs while ensuring equitable access to green jobs. The study estimated that up to 35 million green jobs will be created by 2047 across emerging and traditional sectors such as renewable energy, green hydrogen, waste management, electric vehicles, sustainable textiles and green construction. The detailed findings were released through a report titled "Gearing Up the Workforce for a Green Economy" during May 2023.



# Standards & Research Group 2022 - 2023

## b) Development of Qualifications based on Industry requirement

- ✓ Over 10 new qualifications on solar applications like solar cold storage, solar plus grid based EV charging, cell manufacturing along with Green Hydrogen, Rainwater management etc were developed and approved by NSQC during the year.
- ✓ The revision/rationalization process of multiple qualifications (across various thematic areas) which were expiring were also completed during the year. In addition, Over 25 old qualifications were also aligned with National Credit Framework (NCrF) requirements through an on file approval process from NSQC.
- ✓ Multiple new training batches were also conducted (through various modes) on some of those new qualifications along with NCrF aligned qualifications.

## c) Model Curriculum and Courseware Development

- ✓ In addition to 10 model curriculum for the new qualifications, the existing curriculums were also reviewed & revised for various other qualifications as part of the revision/rationalization and NCrF realignment exercise. In addition, new participant handbook and facilitator guides were also developed and upgraded for multiple qualifications.

### Other initiatives:

- ✓ Multiple skills interventions in form of virtual and physical trainings were designed and implemented across themes like Green Hydrogen, energy storage, solar rooftop entrepreneurship etc.



## Snapshot of NSQF aligned nationally approved Job Roles

Sector-wise Job Roles	NSQF Job Levels								NSQC Approved
	Level 2	Level 2.5	Level 3	Level 3.5	Level 4	Level 5	Level 6	Level 7	
Solar	1	1	3	1	10	6	0	2	24
Green Hydrogen	0	0	4	0	1	1	0	0	6
Wind Energy	0	0	1	0	3	2	0	0	6
Small Hydro	0	0	0	0	1	0	0	0	1
Bio-Energy	0	0	3	0	3	1	2	1	10
Clean Cooking	0	0	1	0	2	1	0	0	4
Paper	0	0	1	0	1	0	0	0	2
Waste Management	0	0	3	0	3	0	0	0	6
FSSM	0	0	2	0	1	0	0	0	3
Waste Water	0	0	1	0	1	0	0	0	2
Rain Water	0	0	1	0	1	0	0	0	2
<b>Total</b>	<b>1</b>	<b>1</b>	<b>20</b>	<b>1</b>	<b>27</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>66</b>

*Project emerging skills needs and coordinate matching demand and supply of skilled workforce across the green business sectors*



# Standards & Research Group 2022 - 2023

## d) SCGJ engagement with bilateral and multilateral agencies

- ✓ SCGJ participated in Knowledge sharing and training sessions on Green Hydrogen organized by The South Asia Regional Energy Partnership (SAREP) which is the flagship regional energy program of the United States Agency for International Development (USAID) India.
- ✓ Multiple Interactions with ISA, FCDO, GIZ, World Bank, UNDP etc were also been carried out for a range of skills development initiatives in solar, biomass, waste & wastewater management and air pollution sector. In addition, a range of activities were also performed supporting capacity building initiatives that impart 21st-century skills, promote sector-specific skills, and provide apprenticeship/employment opportunities to students/young learners.

## The World Bank supported Project on Vocationalisation in Schools

The World Bank awarded a project titled “Researching solutions for Preparing Schools for Vocational Education in Solar Energy” to the Skill Council for Green Jobs (SCGJ). This World Bank supported project aims to undertake research, identify possible solutions and recommend possible innovations to strengthen the design and delivery of vocational skills in Renewable energy (with a focus on Solar Energy), for children aged 15 -18 years (Class 9-12) across Government Schools in Gujarat.

The project will give its recommendations on incorporating vocational skills, in the domain of Renewable energy (with focus on solar energy), which can facilitate school-to-work transition while improving the school environment for the delivery of solar vocational education as an aspirational career pathway. This study has its importance in the light of the New Education Policy (2020) where Vocational Education is being integrated with general academic education at school as well as college level. As part of the project, 4 new qualifications on solar tailor made for Grade IX-XII have been developed. In addition, consultation with over 60 stakeholders from selected Gujarat schools and State Samagra Shiksha team has also been conducted.

## UNDP supported Project

United Nations Development Programme (UNDP) had awarded a project to develop 4 new qualifications on Solar Cold Storage and Solar plus Grid based EV charging along with undertake trainings for 1000 participants across selected states. New qualifications on Technicians and Entrepreneurial Roles in both Solar plus Grid based EV Charging infrastructure and solar cold storage were developed and subsequently over 1000 candidates (including 290 female) were trained and certified across Bihar, MP, Maharashtra, Gujarat and Delhi.

## GIZ funded Indian Rooftop PV Installers Skilling & Employment (IRISE) Project

SCGJ has been implementing IRISE project supported by GIZ to improve PV rooftop installation quality through Up-skilling Indian solar installers (certified Suryamitras) through conducting 10 days training batch. The project had an aim to improve PV rooftop installation quality through Up-skilling Indian solar installers (certified Suryamitras) through conducting a 10 days physical training batch. Training Focus: Technical and Entrepreneurial aspects of PV Port, an innovative plug and play energy system along with required technical aspects on improving quality and safety during solar rooftop installation  
Key Outcome: Enhanced Skillsets and employability of upskilled Suryamitra certified candidates.

Project has been undertaken in two phases, which cumulatively has resulted in :

- 76 Upskilling training batches comprising of 1742 candidates (including 128 female candidates) who have been trained and certified on technical and entrepreneurial aspects of PV Port, along with improving quality and safety aspects during solar rooftop installation.
- 100+ trainers have also been trained and certified through 2 TOTs (mix of virtual and physical batches at 4 TOT locations)
- 38 TPs/TCs located in 17 states and 1 UT implemented the 10 days physical upskilling trainings at their premises
- 38 PV Port system have been installed in each of those TPs locations
- Over INR 3.5 Cr utilised on implementing trainings plus supporting system installation and lab infrastructure.



# Standards & Research Group 2022 - 2023



Training of Trainers (TOT) on Solar PV Installation



Trainings on improving safety & quality of Solar PV Installations



GIZ supported TOT



GIZ supported trainings on PV Port Installation



Suryamitra trainings with female Solar Installers



Installed PV Port at selected training facilities



# Standards & Research Group 2022 - 2023

## List of 53 NSQC approved Job-roles:



### SECTOR-WISE QUALIFICATION FOR TRAINING

Sector	NSQF Job Levels (L)								Total
	L 2	L 2.5	L 3	L 3.5	L 4	L 5	L 6	L 7	
Solar	1	1	3	1	10	6	0	2	24
Green Hydrogen	0	0	4	0	1	1	0	0	6
Wind	0	0	1	0	3	2	0	0	6
Small Hydro	0	0	0	0	1	0	0	0	1
Bio-Energy	0	0	3	0	3	1	2	1	10
Clean Cooking	0	0	1	0	2	1	0	0	4
Paper	0	0	1	0	1	0	0	0	2
Waste Management	0	0	3	0	3	0	0	0	6
FSSM	0	0	2	0	1	0	0	0	3
Waste Water	0	0	1	0	1	0	0	0	2
Rain Water	0	0	1	0	1	0	0	0	2
<b>Total</b>	<b>1</b>	<b>1</b>	<b>20</b>	<b>1</b>	<b>27</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>66</b>

### TRAINING & ASSESSMENT CAPACITY

**Certified Trainers**  
3481\*

**Trained and Certified Candidates**  
527535\*

**Affiliated Training Centers (PAN INDIA)**  
528\*

**Certified Assessors**  
646\*

**No. of States and UTs Covered**  
28\*

\* Numbers as on June 2023

### Qualifications / Job Roles

Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
SOLAR	1	Solar PV Installer (Suryamitra) SGJ/Q0101	4	420 hours (360 hours mandatory NOS including 60 hours of Employability module + 60 hours of OJT)	<ul style="list-style-type: none"> <li>10th pass + ITI (1 year) (Electrical/ Electronics/Civil/ Mechanical/ Fitter/ Instrumentation/ Welder or any related trade)</li> <li>Diploma after class 10th (Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/Agriculture / Electronics &amp; Communication/ Control &amp; Instrumentation or in a related discipline)</li> <li>12th Pass with Science</li> <li>10th grade pass and pursuing continuous schooling</li> <li>10th Pass with 2 years of Experience</li> <li>NSQF level 3 certified in relevant job role with 2 years of relevant experience</li> </ul>
	2	Solar PV Installer – Electrical SGJ/Q0102	4	390 hours (270 hours mandatory NOS with 60 hours of employability module + 120 hours of OJT)	<ul style="list-style-type: none"> <li>10th pass + ITI (1 year) (Electrical/ Electronics/Civil/ Mechanical/ Fitter/ Instrumentation/ Welder or any related trade)</li> <li>Diploma after class 10th (Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/Agriculture/ Electronics &amp; Communication / Control &amp; Instrumentation or in a related discipline)</li> <li>12th Pass with Science</li> <li>10th grade pass and pursuing continuous schooling</li> <li>10th pass with 2 years of Experience</li> <li>NSQF level 3 certified in relevant job role with 2 years of relevant experience</li> </ul>
	3	Solar PV Installer-Civil SGJ/Q0103	4	390 hours (240 hours mandatory NOS including 60 hours of Employability module + 150 hours of OJT)	<ul style="list-style-type: none"> <li>10th pass + ITI (1 year)(Electrical/ Electronics/Civil/ Mechanical/Fitter/ Instrumentation/ Welder or any related trade)</li> <li>Diploma after class 10th (Government recognized 3 years Diploma (Electrical/ Mechanical/Civil/Agriculture/Electronics &amp; Communication /Control &amp; Instrumentation or in a related discipline)</li> <li>12th Pass with Science</li> <li>10th grade pass and pursuing continuous schooling</li> <li>10th Pass with 2 years of Experience</li> <li>NSQF level 3 certified in relevant job role with 2 years of relevant experience</li> </ul>
	4	Solar PV Cell Manufacturing Technician SGJ/Q0203	4	420 hours (Theory: 130 hours + Practical: 110 hours + 60 hours of employability skills + 120 hours of OJT)	<ul style="list-style-type: none"> <li>12th Grade</li> <li>Completed 2nd year of 3-year diploma (after 10th) and pursuing regular diploma</li> <li>10th grade pass plus 2-year NTC</li> <li>10th grade pass plus 1-year NTC plus 1 year NAC</li> <li>8th pass plus 2-year NTC plus 1 Year NAC plus CITS</li> <li>Previous relevant Qualification of NSQF Level 3.0 with minimum education as 8th Grade pass 3 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 3.5 with 1.5 year relevant experience</li> </ul>



# Standards & Research Group 2022 - 2023

Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
SOLAR	5	Solar PV Structural Assistant Design Engineer SGJ/Q0109	5	510 hours (330 hours Mandatory + 60 hours Employability Skills + 120 hours OJT)	<ul style="list-style-type: none"> <li>Completed 2nd year of UG</li> <li>Pursuing 2nd year of UG and continuous education</li> <li>Completed 2nd year of diploma (after 12th)</li> <li>Pursuing 2nd year of 2-year diploma after 12<sup>th</sup></li> <li>12th pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10th with 1 year relevant experience</li> <li>12th Grade pass with 2 year relevant experience</li> <li>10th Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8th Grade pass with 3 year relevant experience</li> </ul>
	6	Solar PV Business Development Executive SGJ/Q0107	5	510 hours (330 hours Mandatory + 60 hours Employability Skills + 120 hours OJT)	<ul style="list-style-type: none"> <li>Completed 2nd year of UG</li> <li>Pursuing 2nd year of UG and continuous education</li> <li>Completed 2nd year of diploma (after 12th)</li> <li>Pursuing 2<sup>nd</sup> year of 2-year diploma after 12<sup>th</sup></li> <li>12th pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10th with 1 year relevant experience</li> <li>12th Grade pass with 2 year relevant experience</li> <li>10th Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8th Grade pass with 3 year relevant experience</li> </ul>
	7	Solar PV Designer SGJ/Q0110	7	690 hours (450 hours mandatory + 90 hours employability skills + 150 hours OJT)	<ul style="list-style-type: none"> <li>Pursuing PhD with no Experience Required</li> <li>Pursuing 2nd year of 2 year PG Eng. with no Experience Required</li> <li>Completed 3 year UG degree with 3 years of relevant experience</li> <li>Completed 4 year UG degree with Honours / Honours with research with 2years of relevant experience</li> <li>Previous relevant Qualification of NSQF Level 6 with 3 years of relevant experience</li> </ul>
	8	Solar PV Engineer (Option: Solar Water Pumping System) SGJ/Q0112	5	540 hours (390 hours mandatory + 60 hours employability skills + 90 hours OJT)	<ul style="list-style-type: none"> <li>Completed 2nd year of UG</li> <li>Pursuing 2nd year of UG and continuous education</li> <li>Completed 2nd year of diploma (after 12th)</li> <li>Pursuing 2nd year of 2-year diploma after 12th</li> <li>12th pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10th with 1 year relevant experience</li> <li>12th Grade pass with 2 year relevant experience</li> <li>10th Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8th Grade pass with 3 year relevant experience</li> </ul>
	9	Solar PV Maintenance Technician- Electrical (Ground Mount) SGJ/Q0115	4	420 hours (270 hours mandatory + 60 hours employability skills + 90 hours OJT)	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC / 10th Grade Pass plus 1 year NTC plus 1 year NAC/ 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC / ITI plus 1 year NAC plus CITS</li> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>
	10	Solar PV Project Manager (E&C) SGJ/Q0114	7	660 hours (420 hours Mandatory + 90 hours Employability Skills + 150 hours OJT)	<ul style="list-style-type: none"> <li>Pursuing PhD with no Experience Required</li> <li>Pursuing 2nd year of 2 year PG Eng. with no Experience Required</li> <li>Completed 3 year UG degree with 3 years of relevant experience</li> <li>Completed 4 year UG degree with Honours / Honours with research with 2 yrs of relevant experience</li> <li>Previous relevant Qualification of NSQF Level 6 with 3 years of relevant experience</li> </ul>
	11	Solar PV Module Manufacturing Technician SGJ/Q0119	4	420 hours (240 hours mandatory modules + 120 hours OJT + 60 hours employability skills)	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC/10th Grade Pass plus 1 year NTC plus 1 year NAC/ 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>
	12	Solar PV Project Helper SGJ/Q0111	2	270 hours (210 hours mandatory with 30 hours employability skills + 60 hours OJT)	<ul style="list-style-type: none"> <li>No formal education prescribed / May require ability to read and write for some qualifications, No Experience required. However, 1 year relevant experience may be desirable for some qualifications</li> <li>Previous relevant Qualification of NSQF Level 1 with no Experience required</li> </ul>



# Standards & Research Group 2022 - 2023

Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
SOLAR	13	Solar Photovoltaic Entrepreneur SGJ/Q0901	5	540 hours (150 hours mandatory + 60 hours Employability Skills + 90 hours OJT + 240 hours of 1 elective)	<ul style="list-style-type: none"> <li>Pursuing 2<sup>nd</sup> year of 2-year diploma after 12<sup>th</sup></li> <li>12<sup>th</sup> pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10<sup>th</sup> with 1 year relevant experience</li> <li>12<sup>th</sup> Grade pass with 2 year relevant experience</li> <li>10<sup>th</sup> Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8<sup>th</sup> Grade pass with 3 year relevant experience</li> </ul>
	14	Rooftop Solar Grid Engineer SGJ/Q0106	5	540 hours (300 hours Mandatory + 60 hours Employability Skills + 180 hours OJT)	<ul style="list-style-type: none"> <li>Completed 2<sup>nd</sup> year of UG</li> <li>Pursuing 2<sup>nd</sup> year of UG and continuous education</li> <li>Completed 2<sup>nd</sup> year of diploma (after 12<sup>th</sup>)</li> <li>Pursuing 2<sup>nd</sup> year of 2-year diploma after 12<sup>th</sup></li> <li>12<sup>th</sup> pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10<sup>th</sup> with 1 year relevant experience</li> <li>12<sup>th</sup> Grade pass with 2 year relevant experience</li> <li>10<sup>th</sup> Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8<sup>th</sup> Grade pass with 3 year relevant experience</li> </ul>
	15	Solar Proposal Evaluation Specialist SGJ/Q0105	5	480 hours (330 hours Mandatory + 60 hours Employability Skills + 90 hours OJT)	<ul style="list-style-type: none"> <li>Completed 2<sup>nd</sup> year of UG</li> <li>Pursuing 2<sup>nd</sup> year of UG and continuous education</li> <li>Completed 2<sup>nd</sup> year of diploma (after 12<sup>th</sup>)</li> <li>Pursuing 2<sup>nd</sup> year of 2-year diploma (after 12<sup>th</sup>)</li> <li>12<sup>th</sup> pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10<sup>th</sup> with 1 year relevant experience</li> <li>12<sup>th</sup> Grade pass with 2 year relevant experience</li> <li>10<sup>th</sup> Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8<sup>th</sup> Grade pass with 3 year relevant experience</li> </ul>
	16	Solar Lighting Assembler SGJ/Q0201	4	420 hours (300 hours mandatory NOS with 30 hours Employability module) + 90 hours of OJT + 30 hours either Elective 1/ or Elective 2	<ul style="list-style-type: none"> <li>12<sup>th</sup> Grade Pass without experience</li> <li>10<sup>th</sup> Grade Pass plus 2 year NTC / 10<sup>th</sup> Grade Pass plus 1 year NTC plus 1 year NAC/ 10<sup>th</sup> Grade Pass and pursuing continuous schooling without experience</li> <li>10<sup>th</sup> Grade Pass with 2 years of relevant experience</li> <li>8<sup>th</sup> Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2<sup>nd</sup> year of 3 year diploma (after 10<sup>th</sup>) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8<sup>th</sup> grade pass with 3 years of experience</li> </ul>
	17	Solar Cold Storage Entrepreneur SGJ/Q1802	4	390 hours including 300 hours of mandatory NOS (with 60 hours of employability skills) and 90 hours of On the Job (OJT) training	<ul style="list-style-type: none"> <li>10<sup>th</sup> Class Pass + NTC (1 year after Class 10<sup>th</sup>), with 1 year of relevant experience</li> <li>10<sup>th</sup> Class Pass + NTC (2 years after Class 10<sup>th</sup>)</li> <li>10<sup>th</sup> Class Pass with 3 Year Diploma, with no experience</li> <li>12<sup>th</sup> Class Pass, with 6 months of relevant experience</li> <li>Certified on relevant NSQF Level 3, with 2 years of relevant experience</li> </ul>
	18	Junior Technician- Solar Cold Storage SGJ/Q4002	3	330 hours including 270 hours of mandatory NOS (with 30 hours of employability module) and 60 hours of On the Job (OJT) training	<ul style="list-style-type: none"> <li>8<sup>th</sup> Class Pass + NTC (2 years)</li> <li>Class 10<sup>th</sup> Pass</li> <li>Previous relevant Qualification of NSQF Level 2 (e.g. Solar PV Project Helper), with 1 year of relevant experience</li> </ul>
	19	Solar EV Charging Entrepreneur SGJ/Q1801	4	390 hours including 300 hours of mandatory NOS (with 60 hours of employability skills) and 90 hours of On the Job (OJT) training	<ul style="list-style-type: none"> <li>10<sup>th</sup> Class Pass + NTC (1 year after Class 10<sup>th</sup>), with 1 year of relevant experience</li> <li>10<sup>th</sup> Class Pass + NTC (2 years after Class 10<sup>th</sup>)</li> <li>10<sup>th</sup> Class Pass with 3 Year Diploma, with no experience</li> <li>12<sup>th</sup> Class Pass, with 6 months of relevant experience</li> <li>Certified on relevant NSQF Level 3, with 2 years of relevant experience</li> </ul>
	20	Junior Technician- Solar EV Charging Station SGJ/Q4001	3	330 hours including 270 hours of mandatory NOS (with 30 hours of employability module) and 60 hours of On the Job (OJT) training	<ul style="list-style-type: none"> <li>8<sup>th</sup> Class Pass + NTC (2 years)</li> <li>10<sup>th</sup> Class Pass</li> <li>Certified on relevant NSQF Level 2 (e.g. Solar PV Project Helper), with 2 years of relevant experience</li> </ul>
	21	Solar Domestic Product Assembler SGJ/Q4902	2.5	240 hours of total notional duration (125 hours theory + 85 hours practical + 30 hours of Employability Skills Module)	★ Submitted to NCVET for Approval
	22	Junior Technician- Solar Manufacturing SGJ/Q4901	3	Total 270 notional hours duration including 240 Hours of Mandatory NOS (140 hours theory, 100 hours practical and 30 hours of Employability Skills Module.	★ Submitted to NCVET for Approval



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Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
SOLAR	23	Solar PV Site Survey Assistant SGJ/Q1203	3.5	Total 360 notional hours duration including 185 hours of theory, 145 hours of practical and 30 hours of Employability Skills Module	★ Submitted to NCVET for Approval
	24	Solar Photovoltaic Technician SGJ/Q4004	4	Total 390 notional hours duration (200 hours theory, 130 hours practical and 60 hours of Employability Skills)	★ Submitted to NCVET for Approval
GREEN HYDROGEN	25	Green Hydrogen Plant Entrepreneur SGJ/Q0121	5	480 hours: (Theory: 155 hours + Practical: 145 hours+ 90 hours of employability skills + 90 hours of OJT)	<ul style="list-style-type: none"> <li>Completed 2nd year of UG</li> <li>Pursuing 2nd year of UG and continuous education</li> <li>Completed 2nd year of diploma (after 12th)</li> <li>Pursuing 2nd year of 2-year diploma after 12th</li> <li>12th pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10th with 1 year of relevant experience</li> <li>12th Grade pass with 2 years of relevant experience</li> <li>10th Grade pass with 4 years of relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 with 2 years relevant experience</li> </ul>
	26	Green Hydrogen Plant Technician SGJ/Q0120	4	420 hours: (Theory: 160 hours + Practical:140 hours + 60 hours of employability skills + 60 hours of OJT)	<ul style="list-style-type: none"> <li>12th Grade</li> <li>Completed 2nd year of 3-year diploma (after 10th) and pursuing regular diploma</li> <li>10th grade pass plus 2-year NTC</li> <li>10th grade pass plus 1-year NTC plus 1 year NAC</li> <li>11th grade pass and pursuing continuous schooling</li> <li>10th Grade Pass with 2 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 3.0 with minimum education as 8th Grade pass 3 year relevant experience</li> </ul>
	27	Green Hydrogen Plant Junior Technician- Power Sources SGJ/Q4301	3	Total 360 hours: (Theory: 170 hours+Practical:100 hours+ 30 hours of employability skills + 60 hours of OJT)	★ Submitted to NCVET for Approval
	28	Green Hydrogen Plant Junior Technician- Electrolytes SGJ/Q4302	3	Total 330 hours : (Theory: 130 hours+ Practical:110 hours+30 hours of employability skills+60 hours of OJT)	★ Submitted to NCVET for Approval
	29	Green Hydrogen Plant Junior Technician- Desalination SGJ/Q4303	3	Total 360 hours: (Theory: 170 hours + Practical: 100 hours + 30 hours of employability skills + 60 hours of OJT)	★ Submitted to NCVET for Approval
	30	Green Hydrogen Plant Junior Technician - Storage SGJ/Q4304	3	Total 360 hours: (Theory:170 hours + Practical: 100 hours + 30 hours of employability skills + 60 hours of OJT)	★ Submitted to NCVET for Approval



# Standards & Research Group 2022 - 2023



## SECTOR-WISE QUALIFICATION FOR TRAINING

Sector	NSQF Job Levels (L)								Total
	L2	L2.5	L3	L3.5	L4	L5	L6	L7	
Solar	1	1	3	1	10	6	0	2	24
Green Hydrogen	0	0	4	0	1	1	0	0	6
Wind	0	0	1	0	3	2	0	0	6
Small Hydro	0	0	0	0	1	0	0	0	1
Bio-Energy	0	0	3	0	3	1	2	1	10
Clean Cooking	0	0	1	0	2	1	0	0	4
Paper	0	0	1	0	1	0	0	0	2
Waste Management	0	0	3	0	3	0	0	0	6
FSSM	0	0	2	0	1	0	0	0	3
Waste Water	0	0	1	0	1	0	0	0	2
Rain Water	0	0	1	0	1	0	0	0	2
<b>Total</b>	<b>1</b>	<b>1</b>	<b>20</b>	<b>1</b>	<b>27</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>66</b>

## TRAINING & ASSESSMENT CAPACITY

**Certified Trainers**  
3481\*

**Trained and Certified Candidates**  
527535\*

**Affiliated Training Centers** (PAN INDIA)  
528\*

**Certified Assessors**  
646\*

**No. of States and UTs Covered**  
28\*

\* Numbers as on June 2023

## Qualifications / Job Roles

Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
PAPER	1	Paper Bag Maker - Micro Entrepreneur - SGJ/Q8702	4	420 hours (90 hours Theory + 180 hours Practical + 60 hours Employability Skills + 90 hours OJT)	<ul style="list-style-type: none"> <li>10th grade pass with 2 Years of experience relevant experience</li> <li>8th grade pass ( + ITI ) with 2 Years of experience relevant</li> <li>10th Class + I.T.I (1 year after 10th) with 1 Year of experience relevant</li> <li>10th Class + I.T.I (2 years after 10th) with NA of experience</li> <li>12th grade Pass with 6 Months of experience relevant</li> <li>Certificate-NSQF (Level 3) with 2 Years of experience relevant</li> </ul>
	2	Paper Bag Junior Technician SGJ/Q8701	3	360 hours (90 hours Theory + 120 hours Practical + 30 hours Employability skills +120 hours OJT)	<ul style="list-style-type: none"> <li>Ability to read and write + 5 years of relevant work experience</li> <li>5th Pass + 4 years of relevant work experience</li> <li>8th Pass + 1 year of relevant work experience</li> <li>9th Pass</li> <li>NSQF level 2 certified in relevant job role with 1 years of relevant experience</li> </ul>
WASTE MANAGEMENT	3	Recyclable Waste Collector & Segregator - SGJ/Q6101	4	420 hours (270 hours mandatory + 120 OJT + 30 hours employability skills)	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC / 10th Grade Pass plus 1 year NTC plus 1 year NAC / 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2<sup>nd</sup> year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>
	4	Safai Karamchari - SGJ/Q6102	3	330 hours (180 hours mandatory NOS+60 hours of OJT+30 hours Employability module+ 60 hours any Elective)	<ul style="list-style-type: none"> <li>Ability to read and write with 5 years of relevant experience</li> <li>5th pass with 3 years of experience</li> <li>8th pass with 1 year of experience</li> <li>8th pass + ITI</li> <li>10th pass</li> <li>Previous relevant qualification of NSQF level 2 with 1 year of Experience</li> </ul>
	5	Waste Picker SGJ/Q6103	3	270 hours (180 hours mandatory NOS+60 hours of OJT+30 hours Employability module)	<ul style="list-style-type: none"> <li>Grade 10 with no experience required Or</li> <li>Grade 8 pass and pursuing continuous schooling in regular school with vocational subject with no experience required Or</li> <li>8th grade pass with 2 years relevant experience Or</li> <li>5th grade pass with 5 years relevant experience Or</li> <li>Previous relevant Qualification of NSQF Level 2 with 3 year relevant experience</li> </ul>



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Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
WASTE MANAGEMENT	6	Material Recovery Facility (MRF) Entrepreneur SGJ/Q4103	4	Total 390 hours duration (Theory 65 hours, Practical 115 hours + 90 hours employability + 120 hours OJT)	★ Submitted to NCVET for Approval
	7	Plastic Recycling Operator SGJ/Q4104	3	360 hours includes 240 hours (Theory+ Practical) + 30 hours Employability Skills + 90 hours OJT	★ Submitted to NCVET for Approval
	8	Plastic Recycling Entrepreneur SGJ/Q4005	4	450 hours (95 hour theory + 175 hours practical + 120 hours OJT + 60 hours of employability)	★ Submitted to NCVET for Approval
FSSM	9	Septic Tank Junior Technician SGJ/Q6402	3	390 hours (90 hours Theory + 210 hours Practical + 30 hours Employability skills + 60 hours OJT)	<ul style="list-style-type: none"> <li>Ability to read and write with 5 years of relevant experience</li> <li>5th Pass + 4 years of experience in masonry/plumbing work</li> <li>8th Pass + 1 year of experience in masonry/plumbing work</li> <li>9th grade pass</li> <li>Previous relevant qualification of NSQF level 2 + 1 year of experience</li> </ul>
	10	Desludging Operator SGJ/Q6403	3	360 hours (240 hours mandatory NOS + 90 hours of OJT + 30 hours Employability module)	<ul style="list-style-type: none"> <li>Ability to read and write with 5 years of relevant experience</li> <li>5th Pass + 3 years of experience in masonry/plumbing work</li> <li>8th Pass + 1 year of experience in masonry/plumbing work</li> <li>9th Pass</li> </ul>
	11	Faecal Sludge Treatment Plant O&M Technician - SGJ/Q6404	4	420 hours including 330 hours of compulsory NOS with 60 hours of employability module and 90 hours of OJT	<ul style="list-style-type: none"> <li>8th Class pass + ITI (2 year after 8th) with 2 years of relevant experience</li> <li>10th pass + ITI (1 year after 10th) with 1 year of relevant experience</li> <li>10th Pass + ITI (2 years after 10th), with no experience</li> <li>10th Pass + Diploma in a Government recognized 3 years Diploma course (in Electrical/ Mechanical/Civil/ Plumbing/ Agriculture/ Control &amp; Instrumentation or in a related discipline)</li> <li>NSQF level 3 certified in relevant job role with 2 years of relevant experience</li> </ul>
WASTE WATER	12	Wastewater Treatment Plant Helper SGJ/Q6602	3	360 hours (270 hours mandatory with 30 hours employability skills + 90 hours OJT)	<ul style="list-style-type: none"> <li>Grade 10 with no experience required</li> <li>Grade 8 with two years of (NTC / NAC) after 8th with no experience required</li> <li>Grade 8 pass and pursuing continuous schooling in regular school with vocational subject with no experience required</li> <li>8th grade pass with 2 years relevant experience</li> <li>5th grade pass with 5 years relevant experience</li> <li>Previous relevant Qualification of NSQF Level 2 with 3 year relevant experience</li> </ul>
	13	Wastewater Treatment Plant Technician SGJ/Q6601	4	420 hours (240 hours mandatory + 60 hours employability skills + 120 hours OJT)	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC / 10th Grade Pass plus 1 year NTC plus 1 year NAC / 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>
RAIN WATER	14	Rooftop Rain Water Harvesting Entrepreneur SGJ/Q4101	4	420 hours including 330 hours of mandatory NOS and 90 hours of On-the-Job Training (OJT)	<ul style="list-style-type: none"> <li>10th Class Pass + NTC (1 year after Class 10th), with 1 year of relevant experience</li> <li>10th Class Pass + NTC (2 years after Class 10th)</li> <li>10th Class Pass plus 3 Years Diploma</li> <li>12th Class Pass, plus 6 months of relevant experience</li> <li>Certified on Rainwater Harvesting Technician NSQF Level 3, with 2 years of relevant experience</li> </ul>
	15	Junior Technician- Rooftop Rainwater Harvesting SGJ/Q4003	3	330 hours including 270 Hours of Mandatory NOS and 60 hours of On-the-Job Training (OJT)	<ul style="list-style-type: none"> <li>8th Class Pass + NTC (2 years)</li> <li>Class 10th Pass</li> <li>Previous relevant Qualification of NSQF</li> </ul>



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## SECTOR-WISE QUALIFICATION FOR TRAINING

Sector	NSQF Job Levels (L)								Total
	L2	L2.5	L3	L3.5	L4	L5	L6	L7	
Solar	1	1	3	1	10	6	0	2	24
Green Hydrogen	0	0	4	0	1	1	0	0	6
Wind	0	0	1	0	3	2	0	0	6
Small Hydro	0	0	0	0	1	0	0	0	1
Bio-Energy	0	0	3	0	3	1	2	1	10
Clean Cooking	0	0	1	0	2	1	0	0	4
Paper	0	0	1	0	1	0	0	0	2
Waste Management	0	0	3	0	3	0	0	0	6
FSSM	0	0	2	0	1	0	0	0	3
Waste Water	0	0	1	0	1	0	0	0	2
Rain Water	0	0	1	0	1	0	0	0	2
<b>Total</b>	<b>1</b>	<b>1</b>	<b>20</b>	<b>1</b>	<b>27</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>66</b>

## TRAINING & ASSESSMENT CAPACITY



**Certified Trainers**  
3481\*



**Certified Assessors**  
646\*



**Trained and Certified Candidates**  
527535\*



**No. of States and UTs Covered**  
28\*



**Affiliated Training Centers (PAN INDIA)**  
528\*

\* Numbers as on June 2023

## Qualifications / Job Roles

Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
BIO-ENERGY	1	Agri-residue Aggregator SGJ/Q6201	3	330 hours including 240 hours of compulsory modules with 30 hours of Employability Skills + 90 hours of recommended OJT	<ul style="list-style-type: none"> <li>10th Pass</li> <li>Ability to read and write with 3 years of relevant experience</li> </ul>
	2	Biomass Depot Operator SGJ/Q6207	4	390 hours (including 210 hours of compulsory modules + 60 hours of Employability modules and 120 hours of OJT)	<ul style="list-style-type: none"> <li>10th Pass with 2 years of experience</li> <li>NSQF Level 3 certified Agri Residue Aggregator with 1 year of suitable experience</li> </ul>
	3	Animal Waste Manure Aggregator - SGJ/Q6302	3	390 hours (240 hours with 30 hours employability module + 90 OJT + 60 hours of either elective)	<ul style="list-style-type: none"> <li>10th Pass</li> </ul>
	4	Technician – Operations and Maintenance Compressed Biogas/Waste to Energy - SGJ/Q606	4	450 hours including 300 hours Mandatory modules + 60 hours Employability Skills + 90 hours OJT	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC / 10th Grade Pass plus 1 year NTC plus 1 year NAC / 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>
	5	Manager- Waste Management - SGJ/Q6501	6	570 hours (210 hours of compulsory modules + 150 hours of "on the job training" + 90 hour employability + one compulsory Elective of 120 hours)	<ul style="list-style-type: none"> <li>Pursuing first year of 2-year PG program after completing 3 year UG degree without experience</li> <li>Pursuing PG diploma after 3 year UG degree without experience</li> <li>Completed 4 year UG (in case of 4-year UG with honours / honours with research) without experience</li> <li>Pursuing Completed 4 year UG (in case of 4-year UG with honours / honours with research) without experience 12th Grade Pass with 2 years of Vocational Education &amp; Training</li> <li>12th Grade with 1 year NTC plus 1 year NAC / CITS with 2 year relevant experience</li> <li>12th grade with 1 year NAC plus CITS</li> <li>12th grade pass with 4 years relevant experience Previous relevant Qualification of NSQF Level 5 with 3 years relevant experience</li> </ul>



# Standards & Research Group 2022 - 2023

Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
BIO-ENERGY	6	Plant Head - Operations Compressed Biogas/Waste to Energy - SGJ/QQ0607	7	330 hours (210 hours mandatory modules + 30 hours employability skills + 90 hours OJT)	<ul style="list-style-type: none"> <li>Pursuing PhD with no Experience Required</li> <li>Pursuing 2nd year of 2 year PG Eng. with no Experience Required</li> <li>Completed 3 year UG degree with 3 years of relevant experience</li> <li>Completed 4 year UG degree with Honours / Honours with research with 2 years of relevant experience</li> <li>Previous relevant Qualification of NSQF Level 6 with 3 years of relevant experience</li> </ul>
	7	Supervisor – Operations & Maintenance Compressed Biogas/ Waste to Energy - SGJ/Q0605	5	540 hours (390 hours Mandatory + 60 hours Employability Skills + 90 hours OJT)	<ul style="list-style-type: none"> <li>Completed 2nd year of UG</li> <li>Pursuing 2nd year of UG and continuous education</li> <li>Completed 2nd year of diploma (after 12th)</li> <li>Pursuing 2nd year of 2-year diploma after 12th</li> <li>12th pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10th with 1 year relevant experience</li> <li>12th Grade pass with 2 year relevant experience</li> <li>10th Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8th Grade pass with 3 year relevant experience</li> </ul>
	8	Feedstock Manager - Procurement and Composition - SGJ/Q0501	6	630 hours including 450 hours mandatory modules + 90 hours employability skills + 90 hours OJT	<ul style="list-style-type: none"> <li>Pursuing first year of 2-year PG program after completing 3 year UG degree without experience</li> <li>Pursuing PG diploma after 3 year UG degree without experience</li> <li>Completed 4 year UG (in case of 4-year UG with honours / honours with research) without experience</li> <li>Pursuing Completed 4 year UG (in case of 4-year UG with honours / honours with research) without experience 12th Grade Pass with 2 years of Vocational Education &amp; Training</li> <li>12th Grade with 1 year NTC plus 1 year NAC/CITS with 2 year relevant experience</li> <li>12th grade with 1 year NAC plus CITS</li> <li>12th grade pass with 4 years relevant experience Previous relevant Qualification of NSQF Level 5 with 3 years relevant experience</li> </ul>
	9	Biomass Pellet Plant Junior Technician SGJ/Q4201	3	300 Hours including 100 hours theory, 110 hours practical + 30 hours of Employability + 60 hours of On-the-Job Training (OJT)	★ Submitted to NCVET for Approval
	10	Entrepreneur-Bio-Energy (Biomass Pellet/ Small Biogas) SGJ/Q4102	4	450 Hours (70 hours Theory+110 hours Practical + 120 hours of OJT + 60 hours Employability module+ 90 hours any Elective	★ Submitted to NCVET for Approval
CLEAN COOKING	11	Improved Cookstove Installer SGJ/Q2101	4	390 hours (120 hours Theory + 150 hours Practical + 60 hours Employability Skills + 60 hours OJT)	<ul style="list-style-type: none"> <li>10th pass with 2 years of experience</li> <li>Certified Portable Improved Cookstove Assembler at NSQF level 3 with 1 year of relevant work experience</li> </ul>
	12	Clean Cookstove Sales and Maintenance Executive SGJ/Q2104	4	390 hours (120 hours Theory + 150 hours Practical + 60 hours Employability skills + 60 hours OJT)	<ul style="list-style-type: none"> <li>11th Grade pass</li> <li>10 grade pass and pursuing continuous schooling</li> <li>10th Grade pass with 2 years of relevant experience</li> <li>Certified Portable Improved Cookstove Assembler at NSQF level 3 with minimum education as 5th grade pass with 2 year of relevant work experience</li> </ul>
	13	Clean Cookstove Distributor SGJ/Q2105	5	480 hours (120 hours Theory + 150 hours Practical + 60 hours employability skills + 150 hours OJT)	<ul style="list-style-type: none"> <li>12th Pass with 1 year vocational education &amp; training (NTC or NAC or CITS)</li> <li>Certified Clean Cookstove Sales and Maintenance Executive/ Improved Cookstove Installer at NSQF level 4 with minimum education as 8th grade pass with 3 years of relevant work experience</li> <li>12th grade pass with 2 years of relevant experience</li> <li>10th grade pass with 4 years of relevant experience</li> </ul>
	14	Portable Improved Cookstove Assembler - SGJ/Q2102	3	330 hours (90 hours Theory + 120 hours Practical + 30 hours employability skills + 90 hour OJT)	<ul style="list-style-type: none"> <li>Ability to read and write with 5 years of experience</li> <li>5th grade pass with 4 years of experience</li> <li>8th grade pass with 1 year of experience</li> <li>Grade 9th pass</li> </ul>



# Standards & Research Group 2022 - 2023



SECTOR-WISE QUALIFICATION FOR TRAINING										TRAINING & ASSESSMENT CAPACITY	
Sector	NSQF Job Levels (L)								Total	Certified Trainers 3481*	Certified Assessors 646*
	L2	L2.5	L3	L3.5	L4	L5	L6	L7			
Solar	1	1	3	1	10	6	0	2	24	Trained and Certified Candidates 527535*	No. of States and UTs Covered 28*
Green Hydrogen	0	0	4	0	1	1	0	0	6		
Wind	0	0	1	0	3	2	0	0	6	Affiliated Training Centers (PAN INDIA) 528*	
Small Hydro	0	0	0	0	1	0	0	0	1		
Bio-Energy	0	0	3	0	3	1	2	1	10		
Clean Cooking	0	0	1	0	2	1	0	0	4		
Paper	0	0	1	0	1	0	0	0	2		
Waste Management	0	0	3	0	3	0	0	0	6		
FSSM	0	0	2	0	1	0	0	0	3		
Waste Water	0	0	1	0	1	0	0	0	2		
Rain Water	0	0	1	0	1	0	0	0	2		
<b>Total</b>	<b>1</b>	<b>1</b>	<b>20</b>	<b>1</b>	<b>27</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>66</b>		

\* Numbers as on June 2023

Qualifications / Job Roles					
Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
WIND ENERGY	1	Project Assistant Planner - Wind Power Plant - SGJ/Q1201	3	330 hours (210 hours mandatory modules + 30 hours employability skills + 90 hours OJT)	<ul style="list-style-type: none"> <li>Grade 10 with no experience required</li> <li>Grade 8 with two years of (NTC / NAC) after 8th with no experience required</li> <li>Grade 8 pass and pursuing continuous schooling in regular school with vocational subject with no experience required</li> <li>8th grade pass with 2 years relevant experience</li> <li>5th grade pass with 5 years relevant experience</li> <li>Previous relevant Qualification of NSQF Level 2 with 3 year relevant experience</li> </ul>
	2	O&M Electrical & Instrumentation Technician Wind Power Plant - SGJ/Q1503	4	420 hours (240 hours mandatory modules + 60 hours employability skills + 120 hours OJT)	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC / 10th Grade Pass plus 1 year NTC plus 1 year NAC / 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>
	3	O&M Mechanical Technician- Wind Power Plant -SGJ/Q1502	4	420 hours (240 hours mandatory modules + 60 hours employability skills + 120 hours OJT)	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC / 10th Grade Pass plus 1 year NTC plus 1 year NAC / 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>
	4	Construction Technician- Wind Power Plant (Elective: Mechanical / Electrical/Civil)- SGJ/Q1401	4	420 hours (120 hours mandatory modules + 60 hours employability skills + 180 hours OJT + 60 hours of either 1 elective)	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC / 10th Grade Pass plus 1 year NTC plus 1 year NAC / 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>



# Standards & Research Group 2022 - 2023

Sectors	S.No.	Name of the Qualification	NSQF Level	Course Duration/ Training Hours	Trainee Education/Qualification
WIND ENERGY	5	Wind Resource Assessor and Site Surveyor-Wind Power Plant - SGJ/Q1202	5	480 hours (240 hours mandatory modules + 60 hours employability skills + 180 hours OJT)	<ul style="list-style-type: none"> <li>Completed 2nd year of UG</li> <li>Pursuing 2nd year of UG and continuous education</li> <li>Completed 2nd year of diploma (after 12<sup>th</sup>)</li> <li>Pursuing 2<sup>nd</sup> year of 2-year diploma after 12<sup>th</sup></li> <li>12th pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10th with 1 year relevant experience</li> <li>12th Grade pass with 2 year relevant experience</li> <li>10th Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8<sup>th</sup> Grade pass with 3 year relevant experience</li> </ul>
	6	CMS Engineer- Wind Power Plant - SGJ/Q1501	5	480 hours (240 hours mandatory modules + 60 hours employability skills + 180 hours OJT)	<ul style="list-style-type: none"> <li>Completed 2nd year of UG</li> <li>Pursuing 2nd year of UG and continuous education</li> <li>Completed 2nd year of diploma (after 12<sup>th</sup>)</li> <li>Pursuing 2nd year of 2-year diploma after 12<sup>th</sup></li> <li>12th pass with 1 year Vocational Education &amp; training (NTC or NAC or CITS)</li> <li>Completed 3 year diploma after 10th with 1 year relevant experience</li> <li>12th Grade pass with 2 year relevant experience</li> <li>10th Grade pass with 4 year relevant experience</li> <li>Previous relevant Qualification of NSQF Level 4 and with minimum education as 8<sup>th</sup> Grade pass with 3 year relevant experience</li> </ul>
SMALL HYDRO	7	Small Hydro Power Plant Technician (Jal Urja Mitra) SGJ/Q0604	4	450 hours (180 hours mandatory modules + 60 hours employability skills + 90 hours OJT + 120 hours of either 1 elective)	<ul style="list-style-type: none"> <li>12th Grade Pass without experience</li> <li>10th Grade Pass plus 2 year NTC/ 10th Grade Pass plus 1 year NTC plus 1 year NAC/ 10th Grade Pass and pursuing continuous schooling without experience</li> <li>10th Grade Pass with 2 years of relevant experience</li> <li>8th Pass plus 2 year NTC plus 1 year NAC plus CITS</li> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>Previous relevant qualification of NSQF Level 3.0 with minimum education as 8th grade pass with 3 years of experience</li> </ul>



# Assessment & Assurance Group

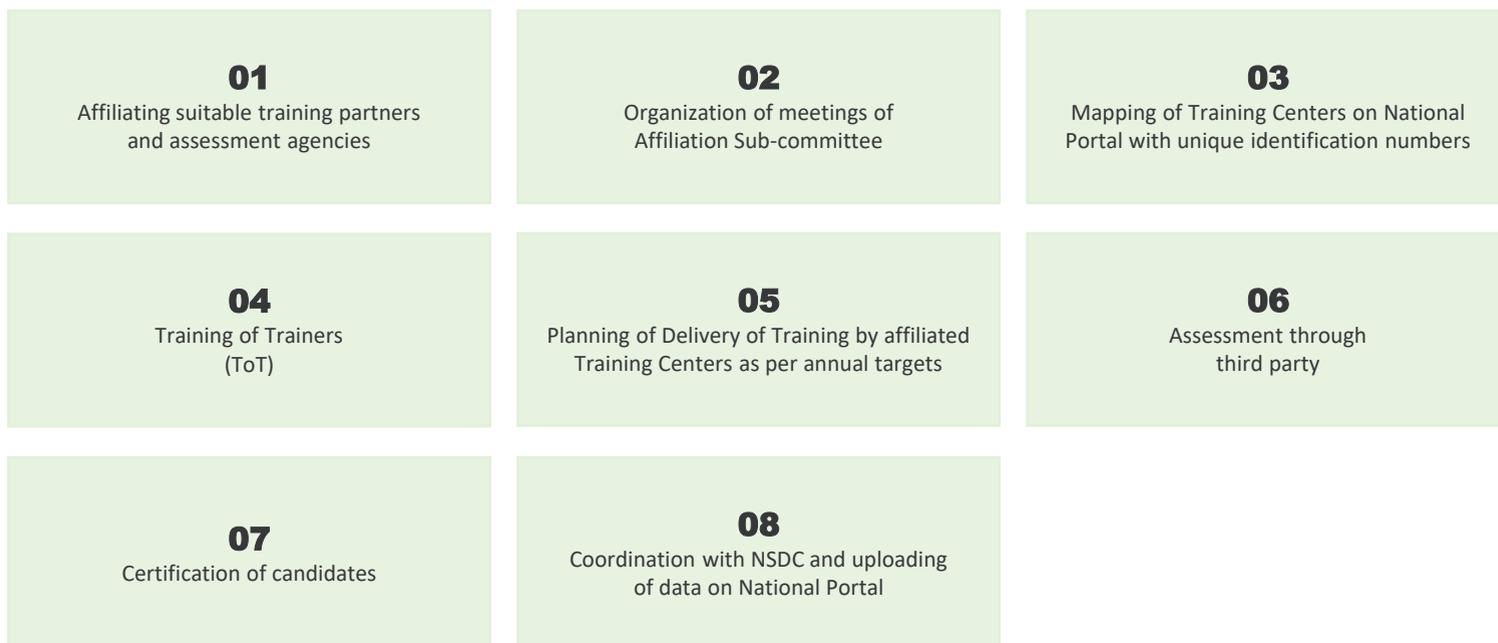
Skill Council for Green Jobs





## Assessment & Assurance Group 2022 - 2023

The Assessment and Assurance Group operationalizes the national occupational standards and maintain the quality of the training programs. The major activities of this division is as follows:



### Major Achievements during April 2022 - August 2023

S.No	Scheme	Candidates Certified During April 2022-August 2023
1	PMKVY STT	115
2	PMKVY special projects	25
3	PMKVY RPL	0
4	Govt. Schemes e.g., MNRE, NSKFDC, NULM, NBCFDC etc.	28647
5	Market mode program	3273
6	State Govt. Funded Programs	2136
7	Conducted TOMT	11
8	Conducted TOT	668 Trainers
9	Conducted TOA	103 Assessors
10	B.Voc Trainings	471
11	AICTE-PMKVY-TI	0
12	International Solar Alliance Training	1400
13	IRISE	300

### Cumulative Status

- ✓ Affiliated 310 Training Centres
- ✓ 8 Assessments Agencies as per the new SOP issued by NCVET
- ✓ Total Certifications 5.36 lakhs



# Assessment & Assurance Group 2022 - 2023

## Major Achievements of Assessment & Assurance Group

Skill Council for Green Jobs have been conducting Short term as well as RPL trainings and certification through its affiliated training partners and assessment agencies. The group has focused on following activities during the year:

Training of Trainer	<p>SCGJ has conducted Training of Trainer program for Solar, Wind, Small Hydro and Waste Management Domain. The domain wise numbers are as follows:</p> <ul style="list-style-type: none"> <li>✓ Solar Domain: 364</li> <li>✓ Waste Management: 80</li> <li>✓ Wind Energy Domain: 171</li> <li>✓ Waste Water: 35</li> <li>✓ Small Hydro: 18</li> </ul>
Training of Assessor	<p>SCGJ has conducted Training of Assessor program for Solar, Wind, Other Green Jobs and Waste Management Domain. The domain wise numbers are as follows:</p> <ul style="list-style-type: none"> <li>✓ Solar Domain: 55</li> <li>✓ Waste Management: 19</li> <li>✓ Wind Energy Domain: 25</li> <li>✓ Other Green Jobs: 4</li> </ul>
World Skills Competition Special Edition	<p>SCGJ has participated in World Skills Competition - Special Edition in Japan in Renewable Energy &amp; Water Technology in Germany. SCGJ has won the Silver Medal in Water Technology.</p>
Training on SEMS	103
One Day Workshop on Hazardous Cleaning of Sewer and Septic Tanks supported by National Safai Karmachari Finance & Development Corporation (NSKFDC)	<p>SCGJ has conducted 20 one day workshop on Hazardous Cleaning of Sewer and Septic Tanks supported by National Safai Karmachari Finance &amp; Development Corporation (NSKFDC) in various municipal corporation Pan India.</p>
RPL Training of Sanitation Workers supported by National Safai Karmachari Finance & Development Corporation (NSKFDC)	<p>SCGJ has completed the RPL Trainings of more than 7500 sanitation workers supported by NSKFDC across the country</p>
Assessments & Certification for State Missions	<p>SCGJ has conducted assessment and certification in following State Missions:</p> <ul style="list-style-type: none"> <li>✓ Jharkhand Skill Development Mission</li> <li>✓ Gujarat Skill Development Mission</li> <li>✓ Punjab State Skill Development Mission</li> <li>✓ Madhya Pradesh Skill Development Mission</li> <li>✓ Himachal Pradesh State Skill Development Mission</li> <li>✓ Uttar Pradesh Skill Development Mission</li> <li>✓ Maharashtra State Skill Development Mission</li> <li>✓ Tamil Nadu State Skill Development Mission</li> </ul>
Empanelment of Assessment Agency	<p>SCGJ has empanelled 8 assessment agencies for carry out the future assessments.</p>
Azadi Ka Amrit Mahotsav	<p>SCGJ has started a series of webinar under the banner of Azadi Ka Amrit Mahotsav. Conducted total of 90 webinars on various topics such as biomass, solar and many more.</p>

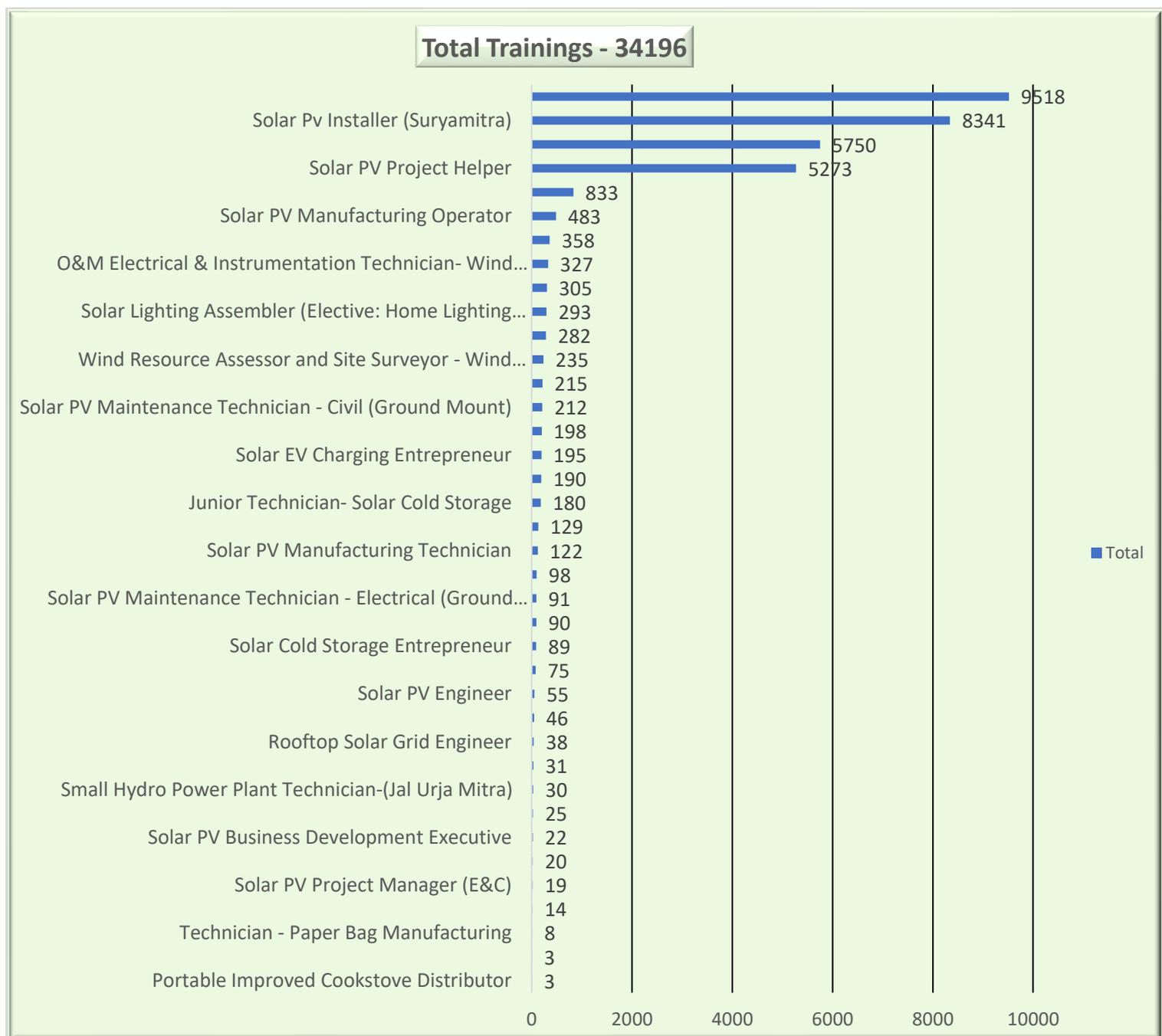


# Assessment & Assurance Group 2022 - 2023

## Certification of candidates

Skill Council for Green Jobs have been conducting Short term as well as RPL trainings and certification through its affiliated training partners and assessment agencies. Out of 53 NSQC approved QPs, 19 QPs are in active use under various Government schemes and market mode trainings. Various ministries under which SCGJ has trained and certified the candidates are: -

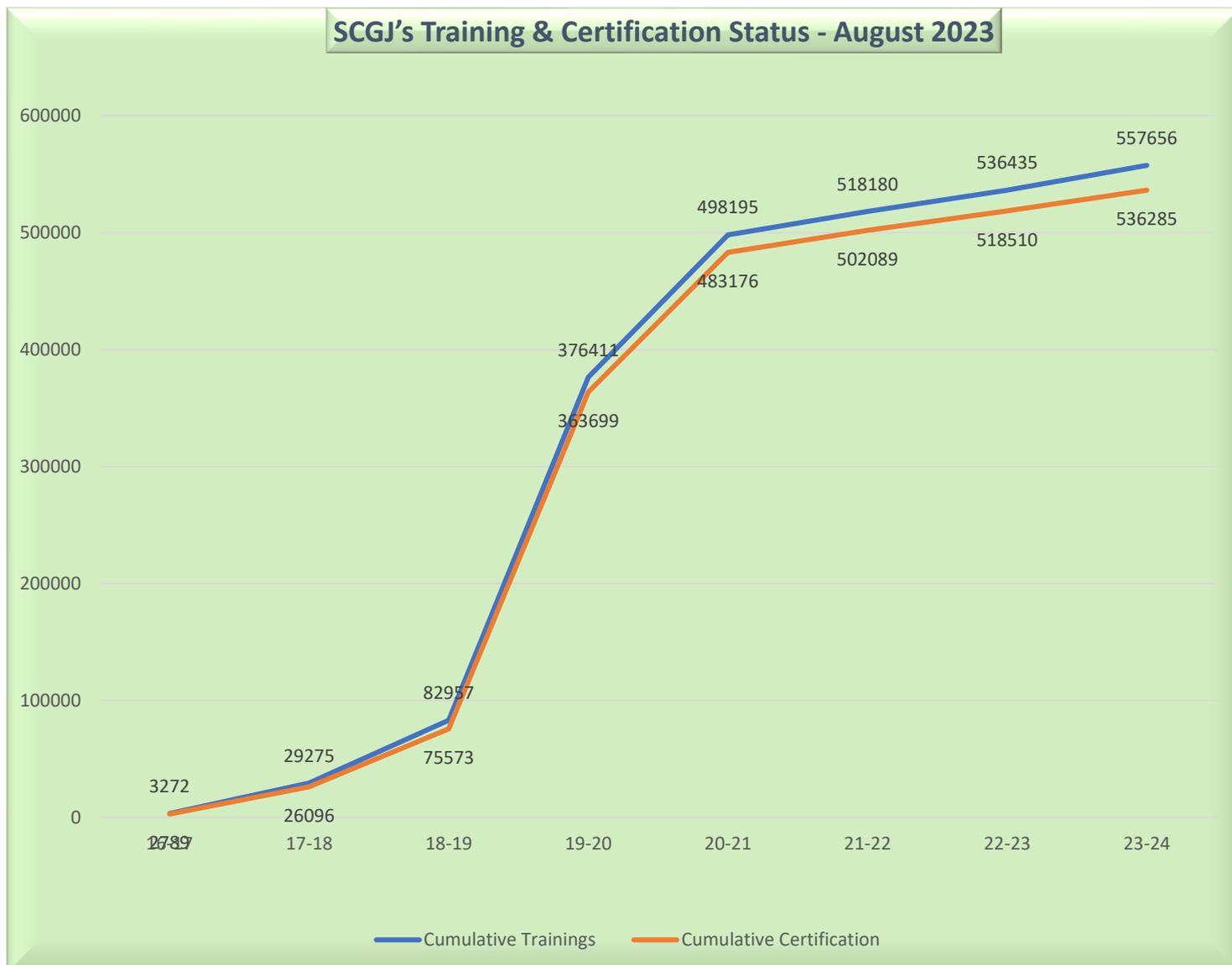
- Ministry of Skill Development & Entrepreneurship
- Ministry of New and Renewable Energy
- Ministry of Social Justice and Empowerment;
- Ministry of Housing and Urban Affairs
- Various State Skill Missions





# Assessment & Assurance Group 2022 - 2023

Year wise sector wise certified candidates details in Renewable Energy and Waste Management Sectors



Numbers on Skill India Portal of Trainings by SCGJ		
Financial Year	Cumulative Trainings	Cumulative Certification
2016-17	3272	2789
2017-18	29275	26096
2018-19	82957	75573
2019-20	376411	363699
2020-21	498195	483176
2021-22	518180	502089
2022-23	536435	518510
As on Jul 2023	557656	536285



# Assessment & Assurance Group 2022 - 2023

## Azadi Ka Amrit Mohotsav

SCGJ has been celebrating 'Azadi ka Amrit Mahotsav' by conducting a series of 75 webinars by eminent Speaker in diverse field/sectors so to enhance knowledge and learning and bring forth various development and innovation in Renewable Energy(RE) and waste management. So far 90 lectures have been organized on different topics starting from September, 2021. The series was launched with the talk on Importance of Sustainable Development Goals and its role in reducing the impact of climate change. Next in the series was on Entrepreneurial opportunities in Solar focusing skills on different opportunities in starting a new venture on solar power plant. The list of webinars delivered are as follows:

S.N.	Date	Webinar Topic	Guest Speaker Details
1	24/09/2021	Launch of webinar series and the inaugural webinar on Importance of Sustainable Development Goals and ways to achieve it	Dr. Adarsh Kumar Pandey, Associate Professor, Sunway University, Malaysia
2	01/10/2021	Entrepreneurial Opportunities in Solar	Mr. Vamsi Krishn, Director - Institute of Solar Power Energy & Vocational Training
3	11/10/2021	Day 1 Online Training - Standard Operating Procedure for the Solar PV Plant Installation	Mr. Vamsi Krishn, Director - Institute of Solar Power Energy & Vocational Training, Mr. Prem P Bharti, Technical Officer - Standard & Research, SCGJ
4	12/10/2021	Day 2 Online Training - Standard Operating Procedure for the Solar PV Plant Installation	
5	22/10/2021	Waste to Fuel	Mr. Sameer Rege, Director - Mailhem Environment Pvt. Ltd.
6	29/10/2021	Potential of Solar Energy for Increasing the Productivity and Profitability in Agriculture	Dr. Aniket Kalhapure, Assistant Professor, Department of Agronomy, Banda University of Agriculture and Technology, UP Govt.
7	12/11/2021	Upcycling Waste to Empowerment	Ms. Nilanjana Das, Founder Director, Action Center for Transformation
8	26/11/2021	Waste Management - Challenges & Strategies	Mr. Sourabh Manuja, Technical Expert, GIZ India
9	03/12/2021	Getting to Net Zero Carbon Emissions	Mr. Yi Hang Yu, Manager - Climate Change & Sustainability, Intertek Assuris, Hong Kong
10	10/12/2021	Greening the Grid: A Step towards meeting the COP26 Commitments	Dr. Abhinav Trivedi, Consultant (S&T), NITI Aayog, Govt. of India, New Delhi
11	31/12/2021	Future Business Opportunity in Solar & EV Charging Station	Mr. Sanyam Indurkha, Director, Saitech Energy Space Systems Pvt. Ltd., Bhopal, M.P
12	07/01/2022	Transitioning to Clean Cooking	Ms. Neha Juneja, Co-founder, Greenway Appliances
13	21/01/2022	Social & Behaviour Change Communication	Ms. Soma Biswas, Communication Advisor, GIZ
14	28/01/2022	Skilling in Organic Waste Management	Dr. Supreet Kaur, Technical expert, Management of Organic Waste in India (MOWI), GIZ.
15	04/02/2022	Reprocessing Blue Gold for Healthier Ecosystem	Mr. Randhir Singh, Founder & Promoter, Emperia Energy Pvt. Ltd.
16	11/02/2022	Water Management, Treatment, Conservation, Recycling and Recharge	Mr. Rameshwar Lal Dad, Founder & CEO, CONCEPT Group
17	18/02/2022	Water Harvesting, Rain & Storm Water Management	Mr. Anand Dad, Design Engineer, Rans Concept Developers
18	25/02/2022	Universal Access to Clean Energy - Challenges and Possible Ways	Dr. Manjushree Banerjee, Fellow, The Energy and Resources Institute
19	03/03/2022	Day 1 Virtual Training Program on Battery Energy Storage	Mr. Sameer Sharma, Design Engineer, Energy Storage, RWE gmbh Mr. Eric Yang, Senior Engineer of Energy Storage Solution, GoodWe Solar Mr. Prem P Bharti, Master Trainer, Skill Council for Green Jobs (Skill India) Ms. Shatrughan Yadav, Co- Founder and CTO, AHA Solar
20	04/03/2022	Day 2 Virtual Training Program on Battery Energy Storage	



# Assessment & Assurance Group 2022 - 2023

S.N.	Date	Webinar Topic	Guest Speaker Details
21	11/03/2022	The Power of Positive Self Communication for Professional Success	Ms. Divyaa Kummar, Professional Communication Coach - NSDC Certified A Grade Trainer ToT Platform Skills
22	25/03/2022	Sustainable Supply Chain of Plastic Waste Management	Mr. Ashish Jain, Founder Director of Indian Pollution Control Association (NGO)
23	01/04/2022	Waste Management: Importance of awareness and its effects	Mr. Kuldeep Choudhary, Program Officer - Municipal Solid Waste programme of Centre for Science and Environment (CSE)
24	08/04/2022	Pharmaceutical Pollution & Sustainable Development Goals: Are they going the right way?	Ms. Purna D Katyal, Pharmacy Officer Incharge, Directorate General of Health Services, Government of NCT of Delhi
25	22/04/2022	Environment Friendly Building for Sustainable Development	Mr. Pravin Kumar Jha, General Manager, Associate with Anantraj Limited, New Delhi
26	29/04/2022	Challenges in the Bio-Energy Sector in India & Way Ahead	Colonel Rohit Dev, Chief Operating Officer, Punjab Renewable Energy Systems Pvt. Ltd.
27	06/05/2022	Air Pollution Mitigation through Smart Cities Program	Dr. Pratima Singh, Research Scientist, Domain Lead - Air Pollution at Center for Study of Science, Technology and Policy (CSTEP)
28	13/05/2022	Emotional Wellness at Workplace	Ms. Navroop Sood, CEO, Heal with Nav
29	20/05/2022	The Growth of Wind Energy in India and Underlying Opportunities	Mr. Martand Shardul, Policy Director, Global Wind Energy Council (GWEC), India
30	27/05/2022	Phasing-out Hazardous Plastic - A Transformational Livelihood-based Approach	K.J. Thomas, Chairman and Managing Director, Bioway Packs Pvt. Ltd.
31	03/06/2022	From Flower Trash to Cash: Recycling and Reuse through Value Addition	Dr. Gaurav Sharma, Associate Professor & Head, Rani Lakshmi Bai Central Agricultural University, Jhansi
32	10/06/2022	Production & Use of Biomass Pellets as Green Fuel	Mr. Amrit Khater, Director, Hi Tech Agro Energy Pvt. Ltd.
33	17/06/2022	Sustainable Development: A Right Approach to the Indian Economy	Prof. (Dr.) Monika Mehrotra, Director, BPM Girls Degree College, Uttar Pradesh
34	24/06/2022	Unlocking Green Job Opportunities in India's Clean Energy Sector	Dr. Akanksha Tyagi, Programme Associate, Council on Energy, Environment and Water (CEEW)
35	01/07/2022	Introduction to Various Energy Storage System: Parameters, Role, and Applications	Mr. Japen Gor, Certified Master Trainer & Course Designer, Solar Energy Consultant, Proprietor - GORenewable Technology, Third Party Inspector & Researcher
36	08/07/2022	Carbon Sinks - Method and Type: Pathway to achieving Net Zero Emission	Dr. Vivek Kumar Singh, Research Scientist, Center for Study of Science, Technology and Policy (CSTEP), India.
37	15/07/2022	Steering Towards Sustainability	Mr. Niranjana Khatri, Founder, iSambhav
38	22/07/2022	Burnout to Burn Bright	Ms. Navroop Sood, CEO, Heal with Nav
39	29/07/2022	Creating Wealth from Waste: Opportunity and Challenges	Dr. Ratnesh Tiwari, Co-founder and Chief Executive Officer, Koshish Sustainable Solutions Private Limited
40	05/08/2022	Rooftop Solar Project: Zero Investment, Savings from Day 1, Moving towards Net Zero	Mr. Manu Srivastava, IAS, Principal Secretary - Board of Revenue, Government of Madhya Pradesh
41	12/08/2022	Agri-Voltaic - A Green Route to Address Energy and Food Crisis	Dr. Subhra Das, Professor and Head, Solar Engineering Department, Amity University, Haryana
42	26/08/2022	Biodiversity for Sustainable Development	Dr. Amit Pal, Assistant Professor & Former Head, Institute of Environment & Development Studies, Bundelkhand University, Jhansi, Uttar Pradesh
43	9/09/2022	Social Entrepreneurship in Biofuels	Er. Shrey Saxena, Director, Growdiesel



# Assessment & Assurance Group 2022 - 2023

S.N.	Date	Webinar Topic	Guest Speaker Details
44	16-09-2022	Webinar on " Waste - An abundant and useful resource"	Dr. Narender Kumar, Director, Swalamban.
45	23-09-2022	Webinar on " Electrification of Unelectrified Villages through Solar Microgrid"	Mr. Prafulla V. Tayde, General Manager, Maharashtra Energy Development Agency (MEDA).
46	30-09-2022	Webinar on " A Circular Economy & Integrated Waste Management"	Mr. Prabhjot Sodhi, Sr. Program Director (Circular Economy) & Director MRAI (Hon.), Centre for Environment Education (CEE).
47	07-10-2022	Webinar on " Role of Green and Energy Efficient Buildings towards Net Zero Target"	Dr. Arun K. Tripathi, Adviser/Scientist 'G', Ministry of New and Renewable Energy.
48	14-10-2022	Webinar on " INDIA at Seventy Five: Sustainable Development, Renewable Energy and Posterity"	Prof. Sakarama Somayaji, Volunteer Teacher - Shree Kshetra Hosakatte Trust, Mundadi, in Udupi, Karnataka.
49	21-10-2022	Webinar on " India's nationally determined contribution towards United Nations Framework Convention on Climate Change (UNFCCC)"	Mr. Sagar Sharma, Faculty at Infinity IAS Academy Delhi.
50	28-10-2022	Webinar on "Potential of Hydrogen as a Clean Fuel for Transportation in Today's Perspective"	Dr. Jayakrishnan Krishnanunni, Architect, Bosch Global Software Technologies Pvt. Ltd.
51	04-11-2022	Webinar on "Decentralised approach for building climate resilience for skill and entrepreneurship development"	Dr. Pranab J Patar, Chief Executive, Global Foundation, New Delhi.
52	11-11-2022	Webinar on "The Rise of the Green Hydrogen Economy"	Chief Guest -Mr. Sameer Gupta, CMD - Jakson Group & Chairman - SCGJ, Eminent Panelists: 1. Mr. Bikesh Ogra, CEO and Managing Director, Jakson Green Pvt. Ltd., 2. Mr. Sunil Jain, Operating Partner, Energy Transitions, Essar Capital, 3. Dr. Anand M Shivapuji, Centre for Sustainable Technologies, IISc Bangalore, 4. Mr. Santosh Gurunath, Co-Founder, Umagine Energy, 5. Mr. Anurag Jain, Director, Uneecons Solar, Moderator-Dr. Jayakrishnan, Architect, Bosch Global Software Technologies
53	18-11-2022	Webinar on "Electronic Waste Management: Seize the Opportunity"	Dr. Garima Chauhan, Scientific Editor, Cactus Communications, Alberta, Canada.
54	25-11-2022	Webinar on "Use of Concentrating Solar Thermal Technology for Industrial and Institutional Sectors in India"	Dr. Pankaj Kumar, National Technical Expert, UNIDO, Regional office India.
55	02-12-2022	Webinar on "Renewable Energy Transition in India: Opportunities and Challenges"	Dr. Debajit Palit, Professor of Energy, NTPC School of Business and Former Director & Senior Fellow, TERI .
56	09-12-2022	Webinar on "Unravel the Intricacies of Agricultural Residue Bioprocessing and Bioeconomy Opportunities"	Dr. Meena Krishania, Scientist C, Center and Applied Bioprocessing Center, Mohali.
57	16-12-2022	Webinar on "Gender and Sustainability Issues: Is food and energy security possible for women at the grassroots?"	Dr. Sunita Dhal, Assistant Professor, School of Gender and Development Studies, Indira Gandhi National Open University, Maidan Garhi, New Delhi.
58	23-12-2022	Webinar on "Development of Geothermal Energy Resources of India"	Dr. Ahsan Absar, Consultant-ONGC, Energy Center (Former Director, Geological Survey of India).
59	30-12-2022	Webinar on "Can Solar Photovoltaic Technology replicate the feat of Mobile Telephony today?"	Dr. Suneel Deambi, Expert (Solar PV) & Author.
60	06-01-2023	Webinar on "Addressing Equity, Sustainable development and Climate Change through Green Energy Sources"	Dr. Perminder Jit Kaur, Senior Policy Fellow, DST's Centre for Policy Research, Indian Institute of Science (IISc), Bangalore.
61	13-01-2023	Webinar on "Financial Management for Micro, Small and Medium Entrepreneurs"	Mr. Rakesh Bhan, AGM and Technical Officer (Retd.), State Bank of India (SBI).
62	20-01-2023	Webinar on "Synthesizing DRE Experiences for NZE Pathways"	Dr. Srinivas Shroff Nagesha Rao, Consultant to UN Agencies and World Bank, Former Chief Executive Officer, REC Foundation.
63	27-01-2023	Webinar on "The Need and Value of Frugal Innovations for accomplishing Sustainable Development & Sustainable Development Goals"	Dr. Praful R Naik, Director and CEO, Prashak Techno Enterprises Pvt. Ltd.
64	03-02-2023	Webinar on "Green Hydrogen Production through advanced biomass-steam gasification technology and a detailed comparison with the electrolysis process"	Dr. P Raman, Director, Energy Efficiency and Environment Pvt. Ltd., New Delhi.



# Assessment & Assurance Group 2022 - 2023

S.N.	Date	Webinar Topic	Guest Speaker Details
65	10-02-2023	Webinar on “National Bioenergy Programme”	Shri S R Meena, Scientist-D, Ministry of New and Renewable Energy (MNRE), Government of India, New Delhi.
66	24-02-2023	Webinar on “ESG and Environment Compliance”	Dr. Manoranjan Hota, Former Adviser - Ministry of Environment, Forest and Climate Change (MoEFCC), Adviser - Skill Council for Green Jobs (SCGJ) New Delhi.
67	28-02-2023	Skill Council for Green Jobs & Jakson Group Celebrates World Sustainable Energy Day 2023 under *Azadi ka Amrit Mahotsav* 75 Webinar Series of SCGJ, webinar on “Solar Power: Energy Transition = Energy Security   Green Energy”	Mr. Vikas Arya, Associate Vice President, Product Strategy & Marketing, Solar Business, Jakson Group.
68	03-03-2023	Webinar on “Inclusive Circular Economy: Upskilling waste workers for a dignified livelihood”	Mrs. Anita Ahuja, President, Conserve India.
69	10-03-2023	Webinar on “Sustainable Development Programs: Information Interchange & Transparency with Youth”	Prof. (Dr.) Niranjan Bhattacharyya, Professor & Director-IQAC of ADGITM, Affiliated to I.P. University, Delhi.
70	17-03-2023	Webinar on “Paradigm Shift in Energy Sector through Green Hydrogen: Strengths and Gaps”	Dr. Perminder Jit Kaur, Senior Policy Fellow, DST’s Centre for Policy Research, Indian Institute of Science (IISc), Bangalore.
71	24-03-2023	Webinar on “Floating Solar Design, Engineering and Opportunities”	Mr. Sachin Rele, Managing Director, Autonic Energy Systems Pvt. Ltd.
72	31-03-2023	Webinar on “EV Charging Infrastructure: Beginners Guide Made Easy”	Er. Neha Sakka - Electrical Engineer, Jaipur Vidyut Vitran Nigam Ltd. (Undertaking of Rajasthan Government).
73	14-04-2023	Webinar on “Watershed Management Activities & Relevance in India”	Mr. Chirag Minocha, Former Commercial Sales Manager, Bharat Petroleum Corporation Limited, Mumbai and Freelance Trainer, Researcher and Teacher.
74	21-04-2023	Webinar on “Transition to Clean Cooking: Implementation and Evaluation Challenges”	Dr. Abhishek Kar, Senior Programme Lead, Council on Energy, Environment and Water (CEEW), New Delhi.
75	28-04-2023	Webinar on “The Role of Digitally-enabled Water in the Journey to Sustainable Development”	Dr. Arup Nandi, Chief of Research at Center for Study of Science, Technology and Policy (CSTEP).
76	12-05-2023	Webinar on “75 actions to contribute to UN SDGs”	Mr. Abhijeet More, United Nations Digital Influencing Volunteer for SDGs   Senior Green Ambassador   Climate Change Ambassador   ATAL Mentor of Change (NITI Aayog).
77	19-05-2023	Webinar on “Implementation of engineering solutions in the domain of waste management for sustainable development and societal benefit”	Dr. A Gangagni Rao, Chief Scientist and Head, Department of Energy and Environmental Engineering, CSIR-IICT Hyderabad.
78	26-05-2023	Webinar on “Citizen Science - Application to Energy, Environment and Health Issues”	Dr. Sumeet Saksena, Senior Fellow at the East-West Center, Honolulu, USA.
79	02-06-2023	Webinar on “Marketing Management for Micro, Small and Medium Entrepreneurs”	Mr. Rakesh Bhan - AGM and Technical Officer (Retd.), State Bank of India (SBI).
80	09-06-2023	Webinar on “Smart Microgrids: Future of Electricity Systems”	Dr. Debajit Palit, Professor of Energy, NTPC School of Business and Former Director & Senior Fellow, Rural Energy & Livelihood Division, TERI.
81	16-06-2023	Webinar on “Making Sense of Green Hydrogen”	Mr. Kiran Kumar Alla, Senior Director, Product Marketing, Plug Power Inc.
82	23-06-2023	Webinar on “Role of Public Digital Data Infrastructure in ensuring a transparent Carbon Market”	Mr. Yuvaraj DINESH Babu Nithyanandam, Executive Director, Climate Data Action Trust (CADT).
83	30-06-2023	Webinar on “Tracking Indian States' Transition to Clean Electricity”	Mr. Ambar Nag, Data Scientist, State Clean Electricity Transition Tracker India (SCETTI).
84	07-07-2023	Webinar on “Entrepreneurship Opportunities in Waste Management”	Mr. Amar Singh Yadav, Founder and CEO, Aseries Envirotek India Pvt. Ltd.
85	14-07-2023	Webinar on “Understanding E in ESG and the role of disclosures in Energy Transition”	Ms. Prarthana Borah, Director, CDP India.
86	21-07-2023	Webinar on “Developing Rural Participation & Economy with Biomass”	Mr. Manish Kapoor, Vice President - Sales & Regional Operations, BiofuelCircle Pvt. Ltd..



## Assessment & Assurance Group 2022 - 2023

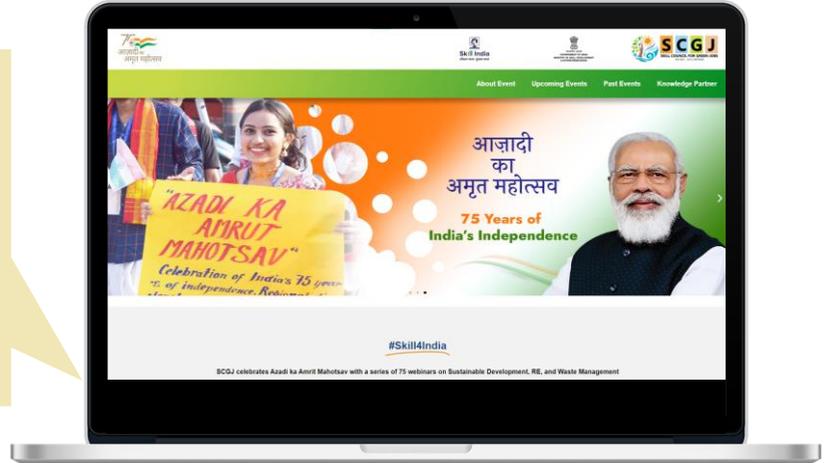
S.N.	Date	Webinar Topic	Guest Speaker Details
87	28-07-2023	Webinar on "Solar cook-top using concentrated solar collector and hybrid thermal storage system, a potential option for clean cooking: Features, Status and Way-forward"	Dr. P Raman - Director, Energy Efficiency and Environment Pvt. Ltd., New Delhi.
88	04-08-2023	Webinar on "Agri Waste to Compostable Products: An Emerging Market and its Challenges"	Ms. Sarita Upadhyay, Head, Pakka Foundation, Ayodhya.
89	11-08-2023	webinar on "Just Green Transitions with a focus on Waste Management: Covering sectors like Textiles, E-waste, Wastewater & more!"	Ms. Aarti Mohan, Co-founder and Partner at Sattva Consulting.
90	18-08-2023	webinar on "Role of biomass and bio-energy technologies towards sustainable energy transition"	Mr. Sunil Dhingra, Director Bio Trend Energy.

# Assessment & Assurance Group 2022 - 2023



आज़ादी का  
अमृत महोत्सव

Official Website of SCGJ for  
**Azadi Ka Amrit Mahotsav**  
<https://scgj.azadikaamritmahotsav.in/>




Webinar Series Celebration  
By Skill Council for Green Jobs  
#Skill4NewIndia

**Chief Guest**  
**Mr. Sameer Gupta**  
CMD, Jakson Group  
Chairman, SCGJ

**Panel Discussion**  
**The Rise of the Green Hydrogen Economy**  
Join us in discussion with our eminent panelists

 <b>Mr Bikesh Ogra</b> CEO and Managing Director Jakson Green Pvt. Ltd.	 <b>Mr. Sunil Jain</b> Operating Partner, Energy Transitions, Essar Capital	 <b>Dr. Anand M Shivapuji</b> Centre for Sustainable Technologies, IISc Bangalore	 <b>Mr. Santosh Gurunath</b> Co-Founder Imagine Energy	 <b>Mr. Anurag Jain</b> Director Uneecops Solar	 <b>Dr. Jayakrishnan</b> Architect, Bosch Global Software Technologies
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11<sup>th</sup> NOVEMBER 2022 | 11:00 AM  
Hosted by Skill Council for Green Jobs

Meeting ID: 839 6170 0242  
Passcode: SCGJ

LIVE STREAMING

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SCGJ Presents Webinar on  
**A Circular Economy & Integrated Waste Management**



**Guest Speaker**  
**Sh. Prabhjot Sodhi**  
Sr Program Director (Circular Economy)  
and Director MRAI (Hon.)  
Centre for Environment Education (CEE)

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#Skill4NewIndia

SCGJ Presents Webinar on  
**Role of Green and Energy Efficient Buildings  
towards Net Zero Target**



**Guest Speaker**  
**Dr. Arun K. Tripathi**  
Adviser/Scientist 'G',  
Ministry of New and Renewable Energy

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SCGJ Presents Webinar on  
**Development of Geothermal Energy Resources of India**



**Guest Speaker**  
**Dr. Ahsan Absar**  
Consultant-ONGC, Energy Center  
Former Director, Geological Survey of India

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SCGJ Presents Webinar on  
**National Bioenergy Programme**

**Guest Speaker**  
**Shri S R Meena**  
Scientist-D  
Ministry of New and Renewable Energy (MNRE)  
Government of India

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**ESG and Environment Compliance**

**Guest Speaker**  
**Dr. Manoranjan Hota**  
Former Advisor - Ministry of Environment, Forest  
and Climate Change (MoEFCC)  
Advisor - Skill Council for Green Jobs (SCGJ)

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**Mr. Rakesh Bhan**  
AGM and Technical Officer (Retd.)  
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Consultant to UN Agencies and World Bank  
Former Chief Executive Officer, REC Foundation

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SCGJ Presents Webinar on  
**Role of Public Digital Data Infrastructure**  
in ensuring a transparent Carbon Market

**Guest Speaker**  
**Yuvaraj DINESH Babu Nithyanandam**  
Executive Director  
Climate Data Action Trust (CADT)

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Upskilling waste workers for a dignified livelihood

**Guest Speaker**  
**Mrs. Anita Ahuja**  
President, Conserve India

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SCGJ Presents Webinar on  
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**Guest Speaker**  
**Mr. Sachin Rele**  
Managing Director  
Autonic Energy Systems Pvt. Ltd.

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SCGJ Presents Webinar on  
**EV Charging Infrastructure**  
Beginners Guide Made Easy

**Guest Speaker**  
**Er. Neha Sakka**  
Electrical Engineer  
Jaipur Vidyut Vitran Nigam Ltd.  
(Undertaking of Rajasthan Government)

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**Addressing Equity, Sustainable Development  
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**Guest Speaker**  
**Dr. Perminder Jit Kaur**  
Senior Policy Fellow,  
DST's Centre for Policy Research,  
Indian Institute of Science (IISc), Bangalore

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**Developing Rural Participation & Economy with Biomass**

**Guest Speaker**  
**Mr. Manish Kapoor**  
Vice President - Sales & Regional Operations  
BiofuelCircle Pvt. Ltd.

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Recorded sessions available on SCGJ Azadi Ka Amrit Mahotsav Website & YouTube Channel

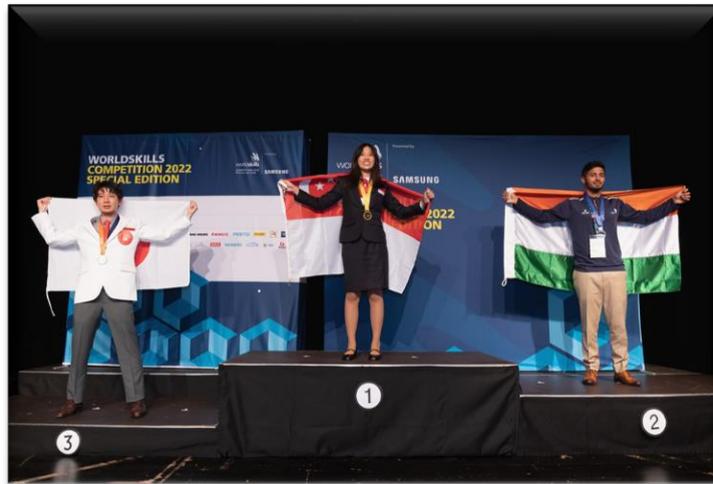
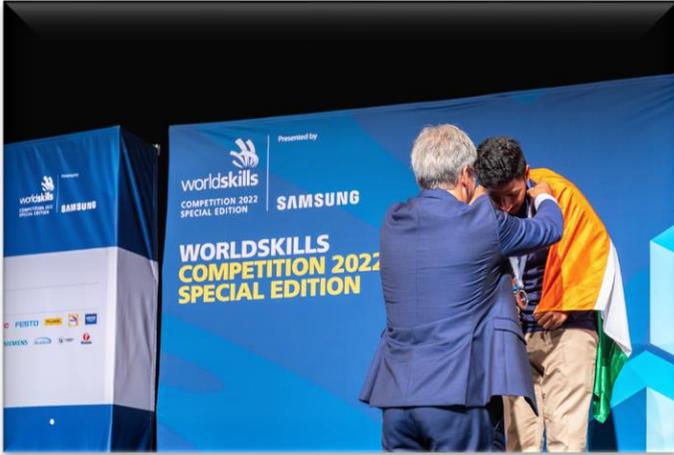


# Assessment & Assurance Group 2022 - 2023

## SCGJ's contribution towards WorldSkills

After the unprecedented performance of SCGJ in World Skills – Kazan 2019, Skill Council for Green Jobs with the support of their experts and Industry partners has taken up the responsibility to lead India in two skills namely Renewable Energy and Water Technology at the WorldSkills Competition 2022 Special Edition. SCGJ has banded silver medal in Water Technology held in Stuttgart-Germany

### GLIMPSE OF WATER TECHNOLOGY COMPETITION – STUTTGART-GERMANY



### GLIMPSE OF RENWABLE ENERGY COMPETITION – KYOTO-JAPAN





# Assessment & Assurance Group 2022 - 2023

## SANKALP – Delhi Police Yuva 2 Program

Sankalp scheme is a support program for skill training schemes that focuses on quality improvement, institution strengthening, and the inclusion of underserved groups in skill training. The project's outcomes are assessed using the Results Framework and Disbursement Linked Indicators (DLIs) developed by MSDE and the World Bank.

Sankalp scheme focuses on three main outcomes:

- Institutional strengthening at the national, state, and district levels;
- Quality assurance of skill development programs; and
- Inclusion of marginalised populations in skill development programs.

### About YUVA 2.0:

YUVA, a [flagship community policing initiative of the Delhi Police](#), was launched in 2017 in association with the National Skill Development Corporation (NSDC). YUVA 2.0 was conceived under the guidance of CP, Delhi with provision of funding from alternative sources, primarily through CSR and other multilateral institutions.

**Target Beneficiary for the project:** This program is aimed to provide skill training to the following candidates:

1. Juvenile in conflict with law
2. Victims of crime (dependents of inmates)
3. School dropouts
4. Extremely poor people in the vicinity of Police Station

### **Project Overview:**

This project PIA is the Skill Council for Green Jobs (SCGJ) and Training Partners are Innodust Techsolution for Kalkaji Police station training centre and Indraprastha Skills for South Dwarka Police station centre. NSDC and Jackson in bringing social development amongst the youth of Delhi through providing them with skill-based education in the field of Renewable Energy and employment at entry level based on the training.

The main objective of this project is Creation of jobs in growth sectors for 120 youth through decentralized demand driven employability training of youth in Delhi in the period of 6 months in Solar sector.

### **Objectives:**

- To provide training and capacity building of youth in Solar course
- To promote confidence and presentation skills by incorporating aspects of spoken English and Personality Development/Soft Skill
- To promote employment by identification and placement of these students in the respective corporate/organizations.



# Assessment & Assurance Group 2022 - 2023

## SANKALP – Delhi Police Yuva 2 Program

### Training Centre:

Kalkaji Police station comes under the DCP South East located near Kalkaji Mandir, New Delhi. Where this Solar training centre is created inside the police station.

### Process Flow



### Course Content of Solar PV Project Helper:

Basic Safety & Electricity, Site Survey, Solar PV technology, Solar PV system, Installation & Commissioning of Solar Power plant, Operation & Maintenance of Solar Power plant, Productivity Improvement in Installation, Workmanship & Importance of Quality, Communication Skills etc.

### Kalkaji Police Station - Centre:

S. No.	Particulars	Phase-1	Phase-2	Total
1	Target Allocated	120	60	180
2	Candidate Enrolled	120	30	150
3	Ongoing Training	30	30	60
4	Candidate Assessed	66		66
5	Candidate Certified	48		48
6	Candidate Placement	20		20

### South Dwarka - Centre:

S. No.	Particulars	Phase-1	Phase-2	Total
1	Target Allocated	120	NA	120
2	Candidate Enrolled	105	NA	105
3	Ongoing Training	20	NA	20
4	Candidate Assessed	69	NA	69
5	Candidate Certified	69	NA	69
6	Candidate Placement	2	NA	2



# Assessment & Assurance Group 2022 - 2023

## Some pictures taken during the Delhi Police YUVA 2 – SANKALP Program





# Marketing & Partnerships Group

Skill Council for Green Jobs





# Marketing & Partnerships Group 2022 - 2023

Marketing and Partnerships is the Industry, bilateral and multilateral interface wing of Skill Council for Green Jobs. The major responsibilities and achievements during 2022-23 of Marketing & Partnerships Group are as follows:

<b>01</b> Improving Industry linkages in all the sub-sectors	<b>02</b> Partner with Countries + Bi & Multi lateral agencies	<b>03</b> Corporate Communications, Marketing & Media management
<b>04</b> MoUs with Industry and other Skill Development & CSR agencies	<b>05</b> All matters relating to Membership of SCGJ, including growth	<b>06</b> Organization of AGM and Governing Council Meetings
<b>07</b> National Apprenticeship Promotion Scheme (NAPS) & other Special projects.	<b>08</b> Centers of Excellence	<b>09</b> Organizing & Participating in Conferences and Exhibitions

## Major Responsibilities of the Group

- ✓ Improving industry linkages in all the sub-sectors
- ✓ Finding opportunities to Partner with countries, organizations, institutes & multi & bi lateral agencies
- ✓ Corporate Communications
- ✓ Marketing, Social media & Print media management
- ✓ Memorandum of Understanding (MoUs) with Industry and other Skill Development agencies- both Government & non-Government
- ✓ All matters relating to Membership of SCGJ, including growth
- ✓ Organization of AGM and Governing Council Meetings
- ✓ National Apprenticeship Promotion Scheme (NAPS) & Special projects
- ✓ Liaison & establish new Centers of Excellence
- ✓ Participation & Organization of sector specific events, Conferences, Job fairs and Exhibitions



# Marketing & Partnerships Group 2022 - 2023

## Activities during 2022-23

The Marketing and Partnership Group of SCGJ has been focusing on strengthening industry connect, developing database for sector specific industry and demand aggregation for apprenticeships & jobs. The group has been active in organizing focused group meetings and participating in various skill development activities. Interaction with other Skill Councils and exploring possibilities of collaboration with Countries, Government & non-Government organizations, institutes, multi & bi-lateral agencies with SCGJ was one of the new initiatives taken by the group. The Skill Council has been contributing articles in various magazines, running campaigns & events to showcase its area of operation and activities.

### a) Marketing and Business Development Activities

- ✓ Participation & organization of over 30 skill development related events & exhibitions including Skill Competitions, meetings and Kaushal Melas.
- ✓ Organized 2 Governing Council meeting and 1 AGM in the given period.
- ✓ Centers of Excellence (CoE) are 9 in number.
- ✓ A total of 21 industries were added as new Members / SCGJ Associates, raising the total to 521 Industry members.
- ✓ Active Memorandum of Understanding (MoUs) signed by SCGJ are 27 in number. Till date around 70 arrangements were signed with industry and other Government & non- Government agencies
- ✓ National Apprenticeship Promotion Scheme (NAPS) was assigned to our team in July 2022. Till 31<sup>st</sup> March 2023 ie in 8 months we secured 2054 Apprenticeship opportunities and 906 Contracts were signed.
- ✓ SCGJ posts on it's Social media handles on LinkedIn, Twitter, Facebook, Instagram & You Tube has received **3,61,935** hits.
- ✓ We ran the Campaign on World Environment Day, 'Har Ghar Tiranga' & 'Jan Bhagidari' successfully.

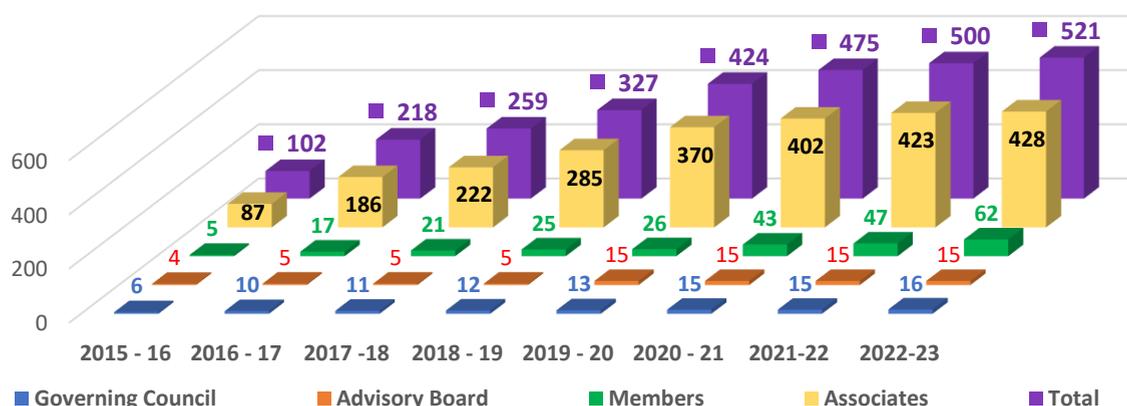
### b) Membership of SCGJ

One of the most important activities undertaken by the Marketing and Partnership Group during this period was to broaden the industry base of SCGJ and develop industry associates. Over 1000 industry, mainly MSME were contacted and informed about the activities of SCGJ. Industries added this year to our Membership anew are 21 in number till date.

**Industry Connect of SCGJ till 31<sup>st</sup> March 2023**

Year	2015 - 16	2016 - 17	2017 -18	2018 - 19	2019 - 20	2020 - 21	2021-22	2022-23
Governing Council	6	10	11	12	13	15	15	16
Advisory Board	4	5	5	5	15	15	15	15
Members	5	17	21	25	26	43	47	62
Associates	87	186	222	285	370	402	423	428
<b>Total</b>	<b>102</b>	<b>218</b>	<b>259</b>	<b>327</b>	<b>424</b>	<b>475</b>	<b>500</b>	<b>521</b>

**Graphical representation of Industry Connect of SCGJ from 2015 to 31st Mar, 2023**





## Marketing & Partnerships Group 2022 - 2023

### MoUs signed with Industry / Institutional Engagement:

Signing of MoUs with industry and skill agencies has been a regular activity of SCGJ. There are 27 live MoUs / LoAs with industry / organizations with a view to cooperate in its activities and also help in achieving placement of SCGJ certified candidates.

SCGJ's MOUs / MOAs			
Sr. No	Date	Signed with	Type
1	13/05/2016	Vestas Wind Technology India Pvt. Ltd.	MOU
2	20/05/2016	Andhra Pradesh State Skill Development Corporation (APSSDC)	MOU
3	06-03-2016	National Solid Waste Management Association of India (NSWAI)	MOU
4	27/06/2016	Municipal Corporation Ghaziabad	MOU
5	07-08-2016	Unifiers Social Ventures Pvt. Ltd.	MOA
6	03-01-2017	Centre for Entrepreneurship Development (A Govt. of Gujarat Organization)	MOU
7	03-10-2017	Gujarat Skill Development Mission	MOU
8	10-05-2017	Jharkhand Skill Development Mission Society (JSDMS)	MOU
9	13/10/2018	Trident Academy of Technology	MOU
10	11-04-2020	Agency for Non-conventional Energy and Rural Technology (ANERT) (COE)	MOU/L
11	25/02/2021	Madhya Pradesh State Open School Education Board (MPSOEB)	MOA
12	04-12-2021	BOSCH Ltd., Bengaluru	MOU
13	23/07/2021	CSC e Governance India Pvt. Ltd.	MOU
14	05-02-2022	Indian Pollution Control Association (IPCA)	MOU
15	09-03-2022	Tamil Nadu Skill Development Corporation (TNSDC)	MOU
16	10-05-2022	International Academy of Environmental Sanitation and Public Health (IAESPH)	MOU
17	24-06-2022	American India Foundation & Market Aligned Skill Foundation	MOU
18	15-07-2022	Rajasthan Skill & Livelihood Development Corporation (RSLDC)	MOU
19	07-10-2022	Pandit Deendayal Energy University	MOU
20	15-11-2022	Foundation for CSR @ Redington	MOU
21	17-11-2022	CFRCSR Integrated Skill Foundation	MOU
22	22-11-2022	Parishkar College of Global Excellence (Autonomous) (PCGEA)	MOU
23	21-12-2022	Bibi Charan Kaur Memorial Educational & Welfare Society	MOU
24	27-12-2022	Erekrut HR Automation Solution Pvt. Ltd.	MOU
25	06-01-2023	Holy Trinity Educational Society	MOU
26	23-01-2023	Environment Conservation Society (SwitchOn Foundation)	MOU
27	19-04-2023	Charities Aid Foundation (CAF)	MOU



# Marketing & Partnerships Group 2022 - 2023

MoUs/Agreements signed with:





# Marketing & Partnerships Group 2022 - 2023

## Major Assignments with Industry / Institutional Engagement:

Sr. No	Date	Signed with
1	19-07-2016	National Backward Classes Finance & Development Corporation (NBCFDC)
2	19/06/2017	National Safai Karamcharis Finance & Development Corporation (NSKFDC)
3	14/09/2017	REC Foundation (Initiative of Rural Electrification Corporation Ltd.)
4	11-06-2017	United Nations Development Program (UNDP) India
5	17/11/2017	National Scheduled Caste Finance & Development Corporation (NSCFDC)
6	30-08-2017	Focal Skill Development Pvt. Ltd.
7	07-04-2019	Multi-disciplinary Center on Safety, Health & Environment (MDC on SHE)
8	04-10-2017	National Resources Defence Council (NRDC) & Council on Energy, Environment & Water (CEEW)
9	17-01-2020	Biogas Forum India "BIGFIN"
10	28-04-2016	Centre for Technology Alternatives in Rural Areas (CTARA), IIT Mumbai (Clean Cook-stove)
11	06-02-2016	Energy Next
12	20-06-2016	KPMG
13	26-07-2016	Commonwealth Education Media Centre for Asia (CEMCA)
14	19-08-2016	SME OneSource
15	11-03-2016	Uttarakhand Skill Development Society
16	11-10-2016	Indian Renewable Energy Development Agency Ltd. (IREDA)
17	24-11-2016	Gujarat Energy Research & Management Institute (GERMI)
18	25-11-2016	Industrial Waste Management Association (IWMA)
19	29-11-2016	Centre for Technology Alternatives in Rural Areas (CTARA), IIT Mumbai (Ferro cement)
20	02-03-2017	Maharashtra State Skill Development Society
21	04-07-2017	Rachna Sagar Pvt. Ltd. & NSDC
22	06-01-2017	G.D. Birla Medical Research & Education Foundation
23	06-06-2017	GIZ - German Cooperation
24	28-06-2017	Assam Skill Development Mission (ASDM)
25	09-03-2022	Tamil Nadu Skill Development Corporation
26	17-07-2017	Taylor & Francis (Informa UK Ltd.)
27	27-07-2017	J S Renewable Pvt. Ltd.
28	07-01-2017	Madhya Pradesh State Skill Development Mission (MPSSDM)
29	04-10-2017	National Resources Defence Council (NRDC) & Council on Energy, Environment & Water (CEEW)
30	21-12-2017	Mindtree Ltd.
31	10-04-2018	Kanoda Energy Systems Pvt. Ltd
32	10-12-2018	Indian Biogas Association
33	18-12-2018	LabourNet India Pvt. Ltd.
34	05-01-2018	Ernst & Young - (SBI)
35	19-02-2020	Jag Bros Consultants Pvt. Ltd (Youth4Work)

# Marketing & Partnerships Group 2022 - 2023

MoUs/Agreements signed with:



CEMCA





# Marketing & Partnerships Group 2022 - 2023

## Centers of Excellence

There are 9 Centres of Excellence as on date:

1. Gujrat Energy Research & Management Institute (GERMI), at Gandhi Nagar Gujrat
2. Seacom Skill University, at Kolkata, West Bengal
3. Trident College of Engineering, Bhubaneswar, Odisha
4. Agency for Non Conventional Energy & Rural Technology (ANERT), at Thiruvananthapuram, Kerela
5. National Institute of Solar Energy (NISE), at Gurugram, Haryana
6. CVC Training Services, CVC Bio Refineries Bangalore, Karnataka
7. National Institute of Wind Energy, Chennai, Tamil Nadu
8. Alternate Hydro Energy Center (AHEC)
9. Anil Naik Technical Training Center (ANTTC)

Talks are on for opening of new COEs with:

- Industrial Training Institute, Chandigarh



**Gujarat Energy Research & Management Institute (GERMI)** envisions to become a world class research, development, advisory and training organization in the field of conventional and renewable energy.



**Seacom Skills University** is the latest venture of a well known Trust in Kolkata involved in multifarious activities for more than a decade now. The Group offers Engineering and Technical Education with maximum industry orientation and more stress on practical skills, aiming at building greater confidence in students.



**Trident Academy of Technology**, specializes in the field of technical education, is today synonymous with excellence. Within just a few years of its establishment, Trident group of institutions has built an image amongst the aspiring masses which is worth the quality of education it imparts.



**Agency for Non-conventional Energy and Rural Technology (ANERT)**, the object of the Agency is to gather and disseminate useful knowledge in the various fields on Non-conventional Energy, Energy conservation and Rural Technology, conduct studies, demonstrate, Implement and support implementation of schemes and projects in these fields.



**National Institute of Wind Energy (NIWE)** is an autonomous R&D institution established in Chennai in 1998 by the Ministry of New and Renewable Energy (MNRE), Government of India. It is a premier institution with highly experienced professionals having expertise in related disciplines of wind energy,



**National Institute of Solar Energy (NISE), Government of India** is an autonomous specialized institute under the Ministry of New and Renewable Energy (MNRE), Government of India, mandated for research and development, solar component testing and certification, capacity building, and development of solar products and applications.



The **CVC Bio Refineries** mission is to deploy advanced Bio Technologies, which have been successfully commercialized, to address National priorities of reduction of Oil & Gas imports, mitigating Environmental Pollution & CHG emissions along with Jobs & Wealth creation in rural economies.



Department of Hydro and Renewable Energy (HRED) formerly **Alternate Hydro Energy Centre (AHEC)**, an academic department of Indian Institute of Technology, Roorkee was established in the year 1982 and has celebrated 2007 as silver jubilee year.



This **Anil Naik Technical Training Centre** was the first to introduce the concept of skill training for school drop-outs to villages in south Gujarat. Since its inception, over 3600 students, including 1100 girls have graduated from the Anil Naik Technical Training Centre. It is affiliated to the National Skill Development Corporation and is widely regarded as a Centre of Excellence.



# Marketing & Partnerships Group 2022 - 2023

## Celebration of Independence Day “Har Ghar Tiranga Campaign”

The Skill Council for Green Jobs (SCGJ) organized the "Har Ghar Tiranga Campaign," aiming to promote environmental awareness and sustainability among households.

SCGJ aimed to encourage citizens to adopt eco-friendly practices, reduce their carbon footprint, and contribute to the overall conservation of the environment, symbolized by the Tiranga (Indian tricolor flag).





# Marketing & Partnerships Group 2022 - 2023

## Jan Bhagidari Events:

SCGJ had organized the Career Counselling Session & Expert lecture by Industry Speaker under 'Jan Bhagidari'.

A "Career Counselling Session" was hosted on June 7, 2023, by BVG India Pvt. Ltd. in Wakad, Pune (Maharashtra), Kwatt Solutions in Somanahalli, Bangalore (Karnataka), and Sri Sri Rural Development Programme Trust in Udayapura, Bangalore (Karnataka), with more than 75 attendees at each location.

Dr. Debajit Palit, Professor of Energy at the NTPC School of Business and a former Director and Senior Fellow of the Rural Energy & Livelihood Division of TERI under Jan Bhagidari, presented a webinar on "Smart Microgrids: The Future of Electricity Systems" on June 9, 2023. There were 45 attendees.

## Career Counselling Session:



## Expert Lecture:

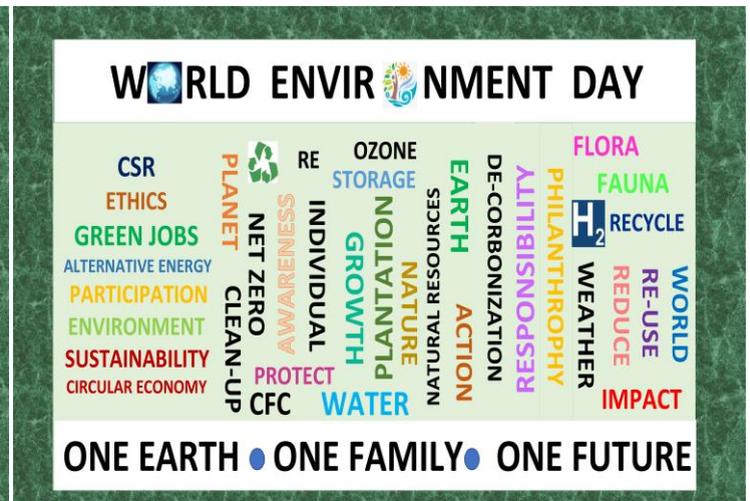




# Marketing & Partnerships Group 2022 - 2023

## World Environment Day:

- SCGJ had participated in the Tree Plantation drive under 'Jan Bhagidari'.
- On World Environment Day, June 5, 2023, more than 170 people, including SCGJ personnel, participated in this plantation effort.
- At various sites, about 500 tree saplings of Peepal, Neem, Champa, Bakhaan, Sheesham, Safeda, Pilkhan, Siras, Mulberry, Lemon, Guava, Pomegranate, and Sapota, among others, were planted.
- Plantation was done in the villages of Alipur, Dhaula, Sancholi, and Hariahera.





# Marketing & Partnerships Group 2022 - 2023



## National Apprenticeship Promotion Scheme:

### Act:

- Apprenticeship Training in India is governed under the Apprentices Act, 1961.
- Administering of Apprenticeship training was done by Ministry of Labour & Employment till 2014
- Moved to Ministry of Skill Development & Entrepreneurship(MSDE) in 2015.

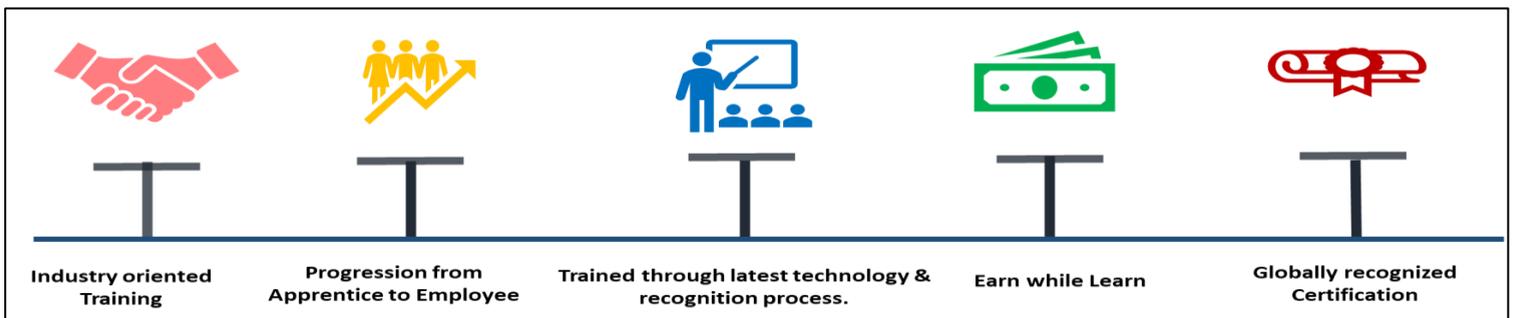
### Main objective of NAPS:

- To regulate and promote the apprenticeship training in the industry.
- To utilize the facilities available in the industry for imparting on-the-job/practical training with a view to meet the requirements of skilled manpower for the industry.

### Mandate:

- For an Organization with an employee strength of 4-29 Apprenticeship is optional.
- For an Organization with an employee strength of >30 , it is mandatory to engage @ 2.5% of its employee strength.

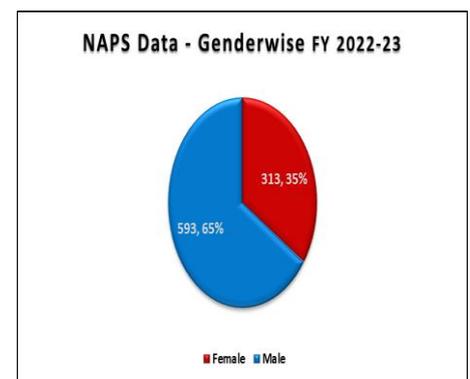
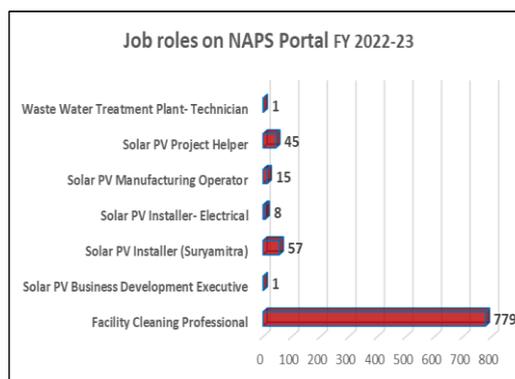
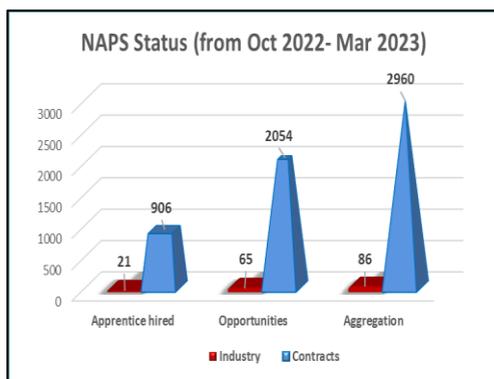
### Benefits:



### Process:



### Achievements:



### NAPS & Jobs Fair





# Marketing & Partnerships Group 2022 - 2023

## SCGJ News Letters During 2022-23



**MOVING TOWARDS Clean Fuels & Emission Reduction**

**INSIDE THE ISSUE**

- From CEO's Desk
- Decarbonizing Indian Agriculture
- 14<sup>th</sup> Governing Council
- Hydrogen - Fuel for Future
- South Asia energy masterclass on "Green Hydrogen"
- Navigating Air Quality Management through the lens of Capacity Development
- SCGJ Through Data FY 2021-2022
- WorldSkills & India Skills
- Azadi ka Amrit Mahotsav
- Events and News

75th Anniversary Logo: आज़ादी का अमृत महोत्सव

Follow us on:

**18th Issue (April 2022)**



**Just Transition Green Skill Enablers**

**INSIDE THE ISSUE**

- From CEO's Desk
- Recognition as Awarding Body by NCVET
- Appointment of Chief Operating Officer, SCGJ
- SCGJ Journey so far and looking ahead
- Just Transition - The Way Forward
- Transition of Coal Mine Workers towards Sustainability
- SCGJ Through Data Q1 2022-23
- WorldSkills Competition 2022 Special Edition
- Azadi ka Amrit Mahotsav
- Events and News

75th Anniversary Logo: आज़ादी का अमृत महोत्सव

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**19th Issue (July 2022)**



**SKILLING FOR Green Entrepreneurship**

**INSIDE THE ISSUE**

- From CEO's Desk
- 15<sup>th</sup> Governing Council Meeting
- 7<sup>th</sup> Annual General Meeting
- Green Entrepreneurship
- Skill Development for Climate Resilience
- Green Businesses in India
- Green Entrepreneurs in India
- SCGJ Through Data Q1 & Q2 2022-23
- WorldSkills Competition 2022 Special Edition
- Azadi ka Amrit Mahotsav
- Events and News

75th Anniversary Logo: आज़ादी का अमृत महोत्सव

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**20th Issue (Oct 2022)**



**GREEN JOBS FOR Climate Empowerment**

**INSIDE THE ISSUE**

- Message from the Chairman's Desk
- Message from the CEO's Desk
- COP27 - Addressing Climate Change Issues
- WePOWER and SCGJ
- SCGJ Statistics through 2022: Q1 - Q3 Trainings
- SCGJ Statistics through 2022: Projects and Skill Gap Studies
- SCGJ Vision and Future Outlook
- Proceeding of Webinar Series: Azadi Ka Amrit Mahotsav

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**21st Issue (Jan 2023)**



**Financing Green Energy Transition**

**INSIDE THE ISSUE**

- ❖ From CEO's Desk
- ❖ Strategic Alliance with German Industry
- ❖ Budget highlights for Green Growth
- ❖ 16th Governing Council Meeting
- ❖ Artificial Intelligence Applications in Green Jobs (Renewable Energy)
- ❖ Key Activities
- ❖ SCGJ Through Data FY 2022-23
- ❖ Azadi ka Amrit Mahotsav
- ❖ Events and News

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**22nd Issue (April 2023)**



**SKILLING FOR Green Resource Management**

**INSIDE THE ISSUE**

- Message from the CEO's Desk
- India - Moving towards ESG
- Biomass as green fuel
- Solar Energy Skill Gap Study for the State of Rajasthan
- SCGJ Statistics through 2023: Q1 - Q3 Trainings
- SCGJ Statistics through 2023: Projects
- Proceedings of Webinar Series: Azadi Ka Amrit Mahotsav

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**23rd Issue (July 2023)**



# Marketing & Partnerships Group 2022 - 2023

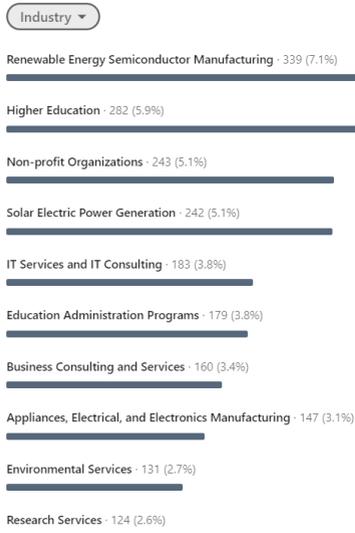
## Social Media



SCGJ had 1,40,313 impressions in FY 2022-2023



### Follower demographics



### Visitor demographics



SCGJ had 25,460 impressions in FY 2022-2023





# Marketing & Partnerships Group 2022 - 2023

## Social Media

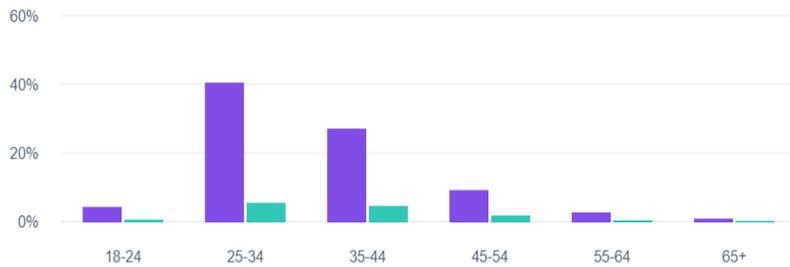


SCGJ had 82,888 impressions in FY 2022-2023



### Age and gender

Men 85.90%  
Women 14.10%



### Location

Towns/cities Countries

Country	Count
India	6,477
United States	38
United Arab Emirates	34
Pakistan	25
Saudi Arabia	23
Australia	18
Bangladesh	14
Nepal	14
Germany	13
United Kingdom	13



SCGJ had 6,474 impressions in FY 2022-2023



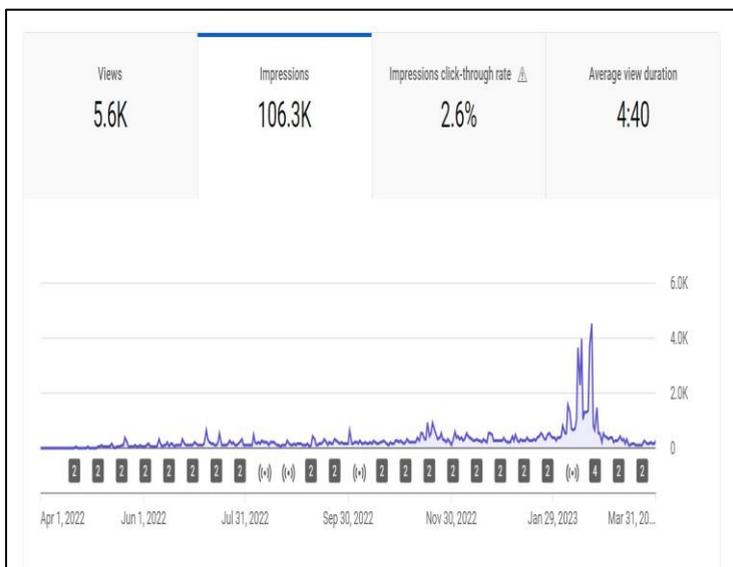


# Marketing & Partnerships Group 2022 - 2023

## Social Media



SCGJ had 1,06,800 impressions in FY 2022-2023



### SCGJ's capsulated facts on Social Media FY 2022 - 2023

Platform	Impressions	Followers
Facebook	82,888	6890
LinkedIn	1,40,313	4758
Twitter	25,460	2328
Instagram	6,474	161
YouTube	1,06,800	424
<b>Total</b>	<b>3,61,935</b>	<b>14379</b>



# Marketing & Partnerships Group 2022 - 2023

## Marketing Collaterals

**SCGJ'S INDUSTRY CONNECT**

Green Jobs propelling Green Growth

www.scgj.in

**SCGJ'S TRAINING PARTNERS**

Green Jobs propelling Green Growth

www.scgj.in

SECTOR-WISE QUALIFICATION FOR TRAINING		TRAINING & ASSESSMENT CAPACITY	
Sector	NOF Job Levels (I)	Certified Trainers	Certified Assessors
Solar	1 1 1 1 10 4 0 0 2 24	3481*	646*
Green Hydrogen	0 0 0 0 1 1 0 0 0 0		
Wind	0 0 1 0 0 0 2 0 0 0		
Small Hydro	0 0 0 0 1 0 0 0 0 0		
Bio-Energy	0 0 0 0 0 1 2 1 1 0		
Clean Cooking	0 0 1 0 2 1 0 0 0 0		
Paper	0 0 1 0 1 0 0 0 0 0		
Waste Management	0 0 0 0 0 0 0 0 0 0		
FSM	0 0 2 0 1 0 0 0 0 0		
Waste Water	0 0 1 0 1 0 0 0 0 0		
Rain Water	0 0 1 0 1 0 0 0 0 0		
<b>Total</b>	<b>1 1 1 1 20 1 27 11 2 1 68</b>		

Sl.No	Name of the Qualification	NOF Level	Course Duration/ Training Hour	Trainee Education/Qualification
1	Solar PV Installer (Systems) SQ/002	4	420 hours (360 hours mandatory NCS including 42 hours of employability module & 60 hours of OJT)	<ul style="list-style-type: none"> <li>10th pass + IT 1 year (Electrical/Electronics/Civil/Mechanical/Instrumentation/Trade or any related trade)</li> <li>Diploma after class 10th (Government recognized 3 years Diploma)</li> <li>Electrical/Mechanical/Qualification/Electronics &amp; Communication/Control &amp; Instrumentation or in a related discipline</li> <li>12th Pass with Score</li> <li>10th grade pass and pursuing continuous schooling</li> <li>10th pass with 2 years of Experience</li> <li>NOF level/level in relevant job role with 2 years of relevant experience</li> </ul>
2	Solar PV Installer - Electrical SQ/002	4	360 hours (270 hours mandatory NCS including 42 hours of employability module - 120 hours of OJT)	<ul style="list-style-type: none"> <li>10th pass + IT 1 year (Electrical/Electronics/Civil/Mechanical/Instrumentation/Trade or any related trade)</li> <li>Diploma after class 10th (Government recognized 3 years Diploma)</li> <li>Electrical/Mechanical/Qualification/Electronics &amp; Communication/Control &amp; Instrumentation or in a related discipline</li> <li>12th Pass with Score</li> <li>10th grade pass and pursuing continuous schooling</li> <li>10th pass with 2 years of Experience</li> <li>NOF level/level in relevant job role with 2 years of relevant experience</li> </ul>
3	Solar PV Installer-Civil SQ/002	4	390 hours (240 hours mandatory NCS including 42 hours of employability module - 150 hours of OJT)	<ul style="list-style-type: none"> <li>10th pass + IT 1 year (Electrical/Electronics/Civil/Mechanical/Instrumentation/Trade or any related trade)</li> <li>Diploma after class 10th (Government recognized 3 years Diploma)</li> <li>Electrical/Mechanical/Electronics &amp; Communication/Control &amp; Instrumentation or in a related discipline</li> <li>12th Pass with Score</li> <li>10th grade pass and pursuing continuous schooling</li> <li>10th pass with 2 years of Experience</li> <li>NOF level/level in relevant job role with 2 years of relevant experience</li> </ul>
4	Solar PV Cell Manufacturing Technician (Supporting)	4	480 hours (Theory: 120 hours + Practical: 120 hours + 60 hours of employability skills + 120 hours of OJT)	<ul style="list-style-type: none"> <li>Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma</li> <li>10th grade pass plus 2 year NCT</li> <li>10th grade pass plus 1 year NCT plus 1 year NCT</li> <li>8th pass plus 2 year NCT plus 1 year NCT plus OJT</li> <li>Previous relevant Qualification of level 10-12 with minimum education at 8th Grade plus 3 year relevant experience</li> <li>Previous relevant Qualification of NOF Level 1.5 with 1.5 year relevant experience</li> </ul>

**Mission of SCGJ:** To capture the skilling needs for both service users and manufacturers' service providers within the sector and implement a roadmap for a nation-wide, industry led collaborative skills development initiatives that will enable meet India's potential for "Green Businesses".

**ABOUT SKILL COUNCIL FOR GREEN JOBS (SCGJ)**

Skill Council for Green Jobs (SCGJ) was established in Oct 2015 under the aegis of Ministry of Skill Development and Entrepreneurship, Government of India to address skilled manpower requirement for the emerging climate resilient technologies and India's commitment to UNFCCC. SCGJ is now formally recognized as an "Awarding Body" by the NCVET, the regulator of skills ecosystem in India. Promoted by the Ministry of New and Renewable Energy and Confederation of Indian Industry, SCGJ was set up as a not-for-profit, autonomous, and industry-led organisation with a mandate to design and implement a wide range of capacity building and skilling interventions. SCGJ aims to identify the skill needs in cross cutting Green business sector, and implement nation-wide, industry-led, collaborative skills development and entrepreneurial development initiatives to ensure our youth are skilled as per industry standards and industry has an access to suitably trained and certified workforce. In line with the National Education Policy 2020 of India, SCGJ is also working now towards introducing vocational education in Green Business sectors in Schools, Universities and Engineering institutions.

**KEY SECTORS COVERED UNDER SCGJ**

Renewable Energy	Environment, Forest & Climate Change	Sustainable Development
<ul style="list-style-type: none"> <li>1. Solar (Photovoltaic)</li> <li>2. Wind</li> <li>3. Small Hydro</li> <li>4. Energy Storage</li> <li>5. Biomass/Biomethane/Power Generation/Windmill, Biogas &amp; Bio-CNG</li> <li>6. Clean Cook Stoves</li> </ul>	<ul style="list-style-type: none"> <li>7. Solid Waste Management</li> <li>8. Agricultural &amp; Animal Husbandry</li> <li>9. Waste Water &amp; Water Management</li> <li>10. Organic Waste Management</li> <li>11. Rain Water Harvesting &amp; Micro-irrigation</li> <li>12. Energy Management</li> <li>13. Carbon Sinks</li> <li>14. Urban Agri - Forest &amp; Plantation</li> </ul>	<ul style="list-style-type: none"> <li>15. Green Hydrogen</li> <li>16. Green Construction</li> <li>17. Green Building</li> <li>18. Green Transport</li> <li>19. Electric Vehicles</li> <li>20. Bio-CNG Vehicles</li> <li>21. Pollution Prevention &amp; Control</li> </ul>

**Green Jobs propelling Green Growth**

**KEY MISSIONS WITH WHICH SCGJ INTERVENTIONS ARE ALIGNED WITH**

Skill India Mission	INDIA Mission	National Solar Mission	Green Hydrogen Mission	Made in India
Smart Cities Mission	Search Bharat Mission	Green India Mission	National Water Mission	

**G20**

**जन भागीदारी**  
People's Participation

Contributing to the spirit of G20

**SCGJ**  
SKILL COUNCIL FOR GREEN JOBS  
ISO 9001:2015 CERTIFIED

**वसुधैव कुटुम्बकम्**  
ONE EARTH • ONE FAMILY • ONE FUTURE

**KAUSHAL BHARAT SASHAKT BHARAT**

Participate in the Pradhan Mantri National Apprenticeship Mela and shape your future with Apprenticeship Training

**PRADHAN MANTRI NATIONAL APPRENTICESHIP MELA**

Date: 12.09.2022 | Timing: 9 AM to 5 PM  
Registration Link: <https://www.apprenticeshipindia.gov.in> or <https://dgt.gov.in/Appmela2022>

On-the-spot interview, assessment, and apprenticeship training offers (designated and optional trades)

Eligibility: 9<sup>th</sup> to 12<sup>th</sup> Pass, Skill Training Certificate holders, ITI Diploma holders, and Graduates

Eligible Job Offerings	Eligible Job Applicants	Required Documents
<ul style="list-style-type: none"> <li>Government's contribution of 25% from the prescribed stipend</li> <li>Cost effective way to increase workforce, productivity, and profitability</li> <li>Apprenticeship training can be given across sectors (Manufacturing, services, trade, and others)</li> <li>Impact to the job skills to candidates who can further be hired as permanent employee</li> </ul>	<ul style="list-style-type: none"> <li>1000+ participating companies from 25 sectors: Power, Retail, Telecom, IT, Electronics, Automobile, and more</li> <li>Organised in over 200+ venues across the country</li> <li>Apprenticeship opportunities in: Sales, Trades (Fitter, Electrician, Welder, services, trade, and others)</li> <li>Electronics, Mechanical, C&amp;I, Instrumentation, Biomedical, Hairdresser, General Painter, Stenographer, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>Resume</li> <li>Certificate of qualification and marksheet (10th to 12th Pass, Skill Training Certificate, ITI Diploma, Under Graduate and Graduate (B.A, B.Com, B.Sc, B.Tech))</li> <li>Passport size photographs</li> </ul>

Register Now

For more details and registration, scan QR code

To participate in Pradhan Mantri National Apprenticeship Mela, visit your nearest ITI centre

#GMSKOutreach @SkillIndiaOfficial



**Green Jobs Handbook 2047 VISION**

2022 2023 2024 2025 2026 2027 2028 2029 2030 2035 2040 2045 2046

**Skill Council for Green Jobs**  
NCVET Recognised Awarding Body

A comprehensive information handbook to foster career in Green Business.

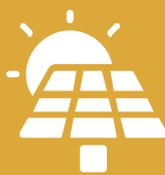


# Qualifications Developed

By Skill Council for Green Jobs



# Solar Energy



## 1. Solar PV Installer (Suryamitra) SGJ/Q0101 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

QUALIFICATION'S DETAILS		
NSQF Level	4	<b>Description</b>  After the training, the candidate would be suitable to work as a Solar PV Installer. He/She has the competence for mechanical, civil and electrical installation of Rooftop Solar PV Power Plants as well as maintaining them properly, while ensuring proper customer support. Suryamitra candidates will be trained to perform the following roles: <ul style="list-style-type: none"> <li>• Site Survey for installation of Solar PV System</li> <li>• Assess the customer's Solar PV requirement</li> <li>• Procure Solar PV system components</li> <li>• Install Civil and Mechanical parts of Solar PV System</li> <li>• Install Electrical components of Solar PV System</li> <li>• Test and Commission Solar PV System</li> <li>• Maintain Solar Photovoltaic System</li> <li>• Maintain Personal Health &amp; Safety at project site</li> <li>• Customer orientation for Solar PV System</li> </ul> S/He will be able to check, configure, install, inspect, test, and commission different components of photovoltaic systems, that meet the performance and reliability needs of customers by incorporating quality craftsmanship and complying with all applicable codes, standards, and safety requirements.
Course Duration/ Training Hours	300+60(Employability)+60 OJT	
Trainee Qualification	"10th pass + ITI / Diploma (Electrical/Electronics/Civil/ Mechanical/ Fitter/ Instrumentation/Welder) "10 <sup>th</sup> Pass with two years of relevant Experience	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	ITI /Diploma Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation or B.Tech (Civil/Mechanical /Electrical/ Instrumentation / Electronics / Electrical and Electronics Eng.) or MSc Physics	
QP: <a href="http://SGJ/Q0101">SGJ/Q0101</a>		

## 2. Solar PV Installer – Electrical SGJ/Q0102 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

QUALIFICATION'S DETAILS		
NSQF Level	4	<b>Description</b>  After the training, the candidate would be suitable to work as a Solar PV Installer- Electrical. S/He specializes in electrical installations and commissioning of Solar Photovoltaic Systems.  S/He will be trained on Solar PV and will be able to do: <ul style="list-style-type: none"> <li>• Site Survey for installation of Solar PV System</li> <li>• Install Electrical components of Solar PV System</li> <li>• Test and Commission Solar PV System</li> <li>• Maintain Personal Health &amp; Safety at project site</li> </ul> S/He will install, test, and commission different electrical components of photovoltaic systems, that meet the performance and reliability needs of customers by incorporating quality craftsmanship and complying with all applicable codes, standards and safety requirements.
Course Duration/ Training Hours	390	
Trainee Qualification	"10th + I.T.I (Electrical and Electronics)/Diploma (Electrical, Electronics) Or 10thpass+3 years of experience as Electrician"	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	ITI / Diploma (Electrical, Electronics) + 3 years of experience or B.Tech (Civil / Electrical / Electronics /Electrical and Electronics Eng.) / MSc Physics + 2 years of experience	
QP: <a href="http://SGJ/Q0102">SGJ/Q0102</a>		

### 3. Solar PV Solar PV Installer – Civil SGJ/Q0103 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

QUALIFICATION'S DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	390	<p>After the training, the candidate would be suitable to work as Solar PV Installer – Civil. S/He specializes in civil and mechanical installation of Solar Photovoltaic Systems. S/He will be trained on Solar PV and will be able to do:</p> <ul style="list-style-type: none"> <li>• Site Survey for installation of Solar PV System</li> <li>• Install Civil and Mechanical parts of Solar PV System</li> <li>• Maintain Personal Health &amp; Safety at project site</li> </ul> <p>S/He will install different civil and mechanical components of photovoltaic systems that meet the performance and reliability needs of customers by incorporating quality craftsmanship and complying with all applicable codes, standards, and safety requirements.</p>
<b>Trainee Qualification</b>	"10th pass + ITI / Diploma(Civil/Mechanical/ Fitter/Welder) OR /10pass+3 years of experience in a related discipline "	
<b>Entry Age (years)</b>	Minimum age: 16	
<b>Trainer Qualification &amp; Experience</b>	ITI /Diploma Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation or B.Tech (Civil/Mechanical /Electrical/ Instrumentation / Electronics / Electrical and Electronics Eng.) or MSc Physics	
<b>QP:</b> <a href="http://nqr.gov.in">SGJ/Q0103</a>		

### 4. Solar Proposal Evaluation Specialist SGJ/Q0105 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

QUALIFICATION 'S DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	480	<p>After the training, the candidate would be suitable to work as Solar Proposal Evaluation Specialist. S/He has competency to review feasibility of the site for installation, assess the techno - commercial feasibility and financial viability of setting up a Solar PV Power Plant.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Check site feasibility of Solar PV Power Plant</li> <li>• Assess the technical feasibility of Solar PV Power Plant</li> <li>• Determine financial viability of the Solar PV Power Plant</li> <li>• Optional: Entrepreneurship Skills</li> </ul> <p>S/He will be able to review feasibility report of the site for installation, assess the techno -commercial feasibility and financial viability of setting up a Solar PV Power Plant. S/He will be able to providing techno - commercial advice, preparing lending or funding documents and write or review Solar PV project reports.</p>
<b>Trainee Qualification</b>	12th pass with 1 year Vocational Education & training (NTC or NAC or CITS) with NA of experience or Completed 2nd year of UG (UG Diploma) with NA of experience or Completed 3 year diploma after 10th with 1 Year of experience relevant experience	
<b>Entry Age (years)</b>	Minimum age: 19	
<b>Trainer Qualification &amp; Experience</b>	B.E. / B.Tech. / BBA / B.Com. / B.Sc. Any Graduate with 5 Years of experience in a financial institution/bank/managing project finance experience	
<b>QP:</b> <a href="http://nqr.gov.in">SGJ/Q0105</a>		

## 5. Rooftop Solar Grid Engineer SGJ/Q0106 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](https://nqr.gov.in)

### QUALIFICATION'S DETAILS

NSQF Level	5	Description
Course Duration/ Training Hours	540	<p>After the training, the candidate would be suitable to work as Rooftop Solar Grid Engineer. S/He has competency of pre-commissioning inspection, interconnection and post commissioning testing of grid connected Solar PV Roof Top Power Plants. S/He is able to monitor safe and appropriate performance of the grid connectivity.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>Pre-Commissioning Inspection of the Grid Connected Rooftop Solar PV Power Plant</li> <li>Post Commissioning Testing of the Grid Connected Rooftop Solar PV Power Plant</li> <li>Maintain Personal Health &amp; safety at project site</li> </ul> <p>S/He will be able to checks, audits, inspects and tests different components of the grid connected Solar PV Power Plant in compliance with all relevant codes, standards, and safety requirements. S/He will be able to interconnect the solar plant with grid and perform post commissioning tests.</p>
Trainee Qualification	10th grade pass with 4 Years of experience relevant experience or Completed 2nd year diploma after 12th with NA of experience	
Entry Age (years)	Minimum age: 19	
Trainer Qualification & Experience	Diploma Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation or B.Tech (Civil/Mechanical /Electrical/ Instrumentation / Electronics / Electrical and Electronics Eng.) or MSc Physics	
QP: <a href="#">SGJ/Q0106</a>		

## 6. Solar PV Business Development Executive SGJ/Q0107 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](https://nqr.gov.in)

### QUALIFICATION 'S DETAILS

NSQF Level	5	Description
Course Duration/ Training Hours	540	<p>After the training, the candidate would be suitable to work as Solar PV Business Development Executive. S/He is specialized in developing solar PV business for a company.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>Develop and mobilize rooftop solar PV business</li> <li>Develop of off grid solar PV business</li> <li>Develop of ground mount solar PV business</li> <li>Work effectively with others</li> </ul> <p>S/He will be able to tell to the client advantages of using solar power devices and systems to develop and generate business for the organization. S/He would have understanding of the rooftop SPV market, ground mount SPV market and decentralized SPV system market and will be able to suggest right kind of solar solution to meet the specific needs of the clients. S/He would have fair understanding of the solar PV technology, its applications and economics. S/He would keep track of central and state solar policies/programs to inform the client and let him avail the benefits of same.</p>
Trainee Qualification	10th grade pass with 4 Years of experience Relevant experience OR 12th grade Pass with 2 Years of experience Relevant experience Completed 2nd year diploma after 12th with NA of experience	
Entry Age (years)	Minimum age: 19	
Trainer Qualification & Experience	Any Graduate Two years of Business Development experience in solar PV sector	
QP: <a href="#">SGJ/Q0107</a>		



## 7. Solar PV Structural Assistant Design Engineer SGJ/Q0109 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://National Qualification Register (nqr.gov.in))

QUALIFICATION'S DETAILS		
NSQF Level	5	<b>Description</b>
Course Duration/ Training Hours	510	After the training, the candidate would be suitable to work as a Solar PV Structural Design Engineer. S/He is specialized in civil and structural design of a rooftop or ground mount solar PV power plant.
Trainee Qualification	10th grade pass with 4 Years of experience relevant experience or 12th grade Pass with 2 Years of experience relevant experience or Completed 3 year diploma after 10th with 1 Year of experience relevant experience	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Prepare the civil and structural design of solar PV power plant</li> <li>• Maintain personal health &amp; safety at solar PV project site</li> <li>• Work effectively with others</li> </ul> S/He designs the module mounting structures, foundations for the module mounting structures, inverters and transformers and the complete layout of the solar PV power plant including walkways between the module mounting structures civil/ structural work for the control room, and allied structural works for the rooftop or ground mount solar PV power plant.
Entry Age (years)	Minimum age: 19	
Trainer Qualification & Experience	Diploma in Civil Engineering/Structural Engineering , Three years of experience of designing civil foundations and mounting structures of Solar PV power plants	
QP: <a href="http://SGJ/Q0109">SGJ/Q0109</a>		

## 8. Solar PV Designer SGJ/Q0110 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://National Qualification Register (nqr.gov.in))

QUALIFICATION'S DETAILS		
NSQF Level	7	<b>Description</b>
Course Duration/ Training Hours	690	After the training, the candidate would be suitable to work as a Solar PV Designer. S/He is specialized in designing of solar PV power plant.
Trainee Qualification	Completed 3 year UG degree (relevant discipline) with 3 Years of experience relevant . Or suing 2nd year of 2 year PG- Eng (M.Tech relevant discipline)) with NA of experience or Pursuing PhD (relevant discipline) with NA of experience	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Review the structural design of solar PV power plant</li> <li>• Review electrical design of solar PV power plant</li> <li>• Prepare energy simulation report</li> <li>• Maintain personal health &amp; safety at solar PV project site</li> <li>• Work effectively with others</li> </ul> S/He would be able to review civil and electrical design of the Solar PV power plant & prepare the energy simulation report.
Entry Age (years)	Minimum age: 23	
Trainer Qualification & Experience	B. Tech/ B.E. (Solar/ Electrical, Electronics, Civil, Mechanical/ Energy Systems) or M. Tech (Solar/ Renewables/ Energy Studies)	
QP: <a href="http://SGJ/Q0110">SGJ/Q0110</a>		

### 9. Solar PV Project Helper SGJ/Q0111 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://National Qualification Register (nqr.gov.in))

QUALIFICATION 'S DETAILS		
NSQF Level	2	<b>Description</b>
Course Duration/ Training Hours	270	After the training, the candidate would be suitable to work as a Solar PV Project Helper. S/He would be trained to assists in various activities relating to SPV installations both ground mounted and roof top.
Trainee Qualification	Ability to read and write (with 1 year relevant experience )	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Assist in installation and maintenance of solar PV power plant</li> <li>• Assist in installation and maintenance of off grid solar systems</li> <li>• Maintain personal health &amp; safety at workplace</li> </ul>
Entry Age (years)	Minimum age: 16	S/He would be able to assist in site survey, erection and commissioning activities and maintenance activities for ground mounted solar PV power plants as well as roof top and also assist in installation of off grid solar systems.
Trainer Qualification & Experience	ITI / Diploma in technical education + 2 years of hands-on working experience of Installation and Maintenance of Solar PV power plants	
QP: <a href="http://SGJ/Q0111">SGJ/Q0111</a>		

### 10. Solar PV Engineer (Option: Solar Water Pumping Engineer) SGJ/Q0112 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://National Qualification Register (nqr.gov.in))

QUALIFICATION'S DETAILS		
NSQF Level	5	<b>Description</b>
Course Duration/ Training Hours	510+ 30 (Optional)	After the training, the candidate would become a Solar PV Engineer. S/He would be trained to design, installation and commission solar PV power plant, its quality assurance and HSE issues.
Trainee Qualification	10th grade pass with 4 Years of experience Relevant experience or 12th grade Pass with 2 Years of experience Relevant experience or Completed 3 year diploma after 10th with 1 Year of experience Relevant experience	S/He will be trained on to: <ul style="list-style-type: none"> <li>• Prepare site feasibility study report</li> <li>• Design of solar PV power plant</li> <li>• Installation and commissioning of solar PV power plant</li> <li>• Quality Assurance of solar PV power plant &amp; components</li> <li>• Maintain personal health &amp; safety at project site</li> <li>• Work effectively with others</li> </ul>
Entry Age (years)	Minimum age: 19	S/He would be able to take responsibility of design, installation and commissioning of solar power plant at site, its quality QA and HSE issues.
Trainer Qualification & Experience	Any Engineering Graduate with Two years of experience in Designing and Installation of Solar PV power plants	Option: Solar Water Pumping Engineer: As part of optional learning, he would also be able to design, install and commission solar water pumping systems.
QP: <a href="http://SGJ/Q0112">SGJ/Q0112</a>		

## 11. Solar PV Project Manager(E&C) SGJ/Q0114 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://NationalQualificationRegister(nqr.gov.in))

QUALIFICATION 'S DETAILS		
<b>NSQF Level</b>	7	<b>Description</b>  After the training, the candidate would be suitable to work as Solar PV Project Manager (E&C) with competency to manage erection and commissioning of one/ multiple solar PV power plants at one site or different sites.  S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Manage installation of solar PV power plant</li> <li>• Maintain health &amp; safety at project site</li> <li>• Work effectively with others</li> </ul> S/He with his team of site in-charge and commercial manager, receives different components of the solar PV power plant (modules, inverter, transformers etc.) procured as per the design, checks the components for specifications and quality, installs the solar PV power plant as per the design, constructs the substation and grid interface incorporating grid code and regulatory provisions incorporated in the design.
<b>Course Duration/ Training Hours</b>	660	
<b>Trainee Qualification</b>	Completed 3 year UG degree with 3 Years of experience Relevant experience. B.Tech. in Engineering and Technology with 6 years' of experience in renewable energy/power sector utilities/consulting firms/solar PV power plant installation and commissioning or M.Sc. / M.Tech. / MBA with 3 years of experience in renewable energy/power sector utilities/consulting firms/solar PV power plant installation and commissioning or pursuing PhD with NA of experience	
<b>Entry Age (years)</b>	Minimum Age: 23	
<b>Trainer Qualification &amp; Experience</b>	B.E./ B.Tech. or M.Sc. / M.Tech. / MBA  8 years of experience in managing installation & commissioning of Solar PV projects for B.E./ B.Tech./B.Voc  Or 5 years of experience in managing installation & commissioning of Solar PV projects for/ M.Tech. / MBA Or 7 years of experience in managing installation & commissioning of Solar PV projects for MSc	
<b>QP:</b> <a href="http://SGJ/Q0114">SGJ/Q0114</a>		

## 12. Solar PV Maintenance Technician - Electrical (Ground Mount) SGJ/Q0115 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://NationalQualificationRegister(nqr.gov.in))

QUALIFICATION 'S DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>  After the training, the candidate would be suitable to work as a Solar PV Maintenance Technician for electrical components in a ground mount power plant.  S/He will be trained on the following: <ul style="list-style-type: none"> <li>• Carry out electrical maintenance of the ground mount solar PV power plant</li> <li>• Maintain personal health &amp; safety at solar PV power plant</li> <li>• Work effectively with others</li> </ul> S/He would be able to periodically check and maintain all the electrical components of the solar PV power plant for proper electrical connectivity, incorporating quality craftsmanship and complying with all applicable codes, standards, and safety requirements.
<b>Course Duration/ Training Hours</b>	420	
<b>Trainee Qualification</b>	ITI - Electrical and Electronics	
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	Any Graduate Two years of experience in Operation & Maintenance of Solar PV power plants	
<b>QP:</b> <a href="http://SGJ/Q0115">SGJ/Q0115</a>		

### 13. Solar PV Manufacturing Operator SGJ/Q0119 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

QUALIFICATION'S DETAILS		
NSQF Level	4	<b>Description</b>
Course Duration/ Training Hours	420	After the training, the candidate would be suitable to work as a Solar PV Manufacturing Technician. S/He would learn various processes involved in manufacturing of Solar PV Modules.
Trainee Qualification	10th grade pass with 2 Years of experience Relevant experience or 12th grade Pass with NA of experience or Completed 2nd year of the 3-year diploma after 10 (plus pursuing regular diploma) with NA of experience	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Carry out the manufacturing of Solar PV Modules</li> <li>• Maintain personal health &amp; safety in a manufacturing facility</li> <li>• Work effectively with others</li> </ul> S/He would be able to clean and check front glass cover for the PV module; monitor the process of soldering solar cells to the strings to make interconnect, lamination of modules, framing of solar PV module, module testing and packaging for transit.
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	Intermediate Two years of experience in a solar PV module manufacturing plant	
QP: <a href="http://nqr.gov.in">SGJ/Q0119</a>		

### 14. Solar Lighting Assembler (Elective: Home Lighting System/ Street Lights) SGJ/Q0201 v3.0

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

QUALIFICATION'S DETAILS		
NSQF Level	4	<b>Description</b>
Course Duration/ Training Hours	420	After the training, the candidate would be suitable to work as Solar Lighting Technician. S/He would assemble, test and repair different types of solar photovoltaic (SPV) lamps adhering to basic electrical standards.
Trainee Qualification	8th grade pass (plus 2 year NTC plus 1 year NAC plus CITS ) or 10th grade pass with 2 Years of experience relevant or 12th grade Pass with NA of experience or	S/He will be trained on the following: <ul style="list-style-type: none"> <li>• Assembly of different types of solar lamps</li> <li>• Repair of solar lamps</li> <li>• Maintain personal health &amp; safety in a manufacturing facility</li> <li>• Maintain Personal Health and safety at project site</li> </ul> Option1: Home lighting system Assembly and Repair of solar home lighting systems.
Entry Age (years)	Minimum Age:16	Option2: Street light Assembly and Repair of solar street lights.
Trainer Qualification & Experience	10th pass + ITI or Diploma in technical education + 1 year of manufacturing solar lighting device or 2 years of experience in O&M of solar lighting devices	
QP: <a href="http://nqr.gov.in">SGJ/Q0201</a>		



### 15. Solar PV Cell Manufacturing Technician SGJ/Q0203 v3.0

Scan QR or click on link to Access : <https://nqr.gov.in/qualifications/3794>

QUALIFICATION'S DETAILS		
NSQF Level	4	<b>Description</b> Solar PV Cell Manufacturing Technician performs solar cell manufacturing tasks in a production line, cleans silicon wafer, undertake chemical and thermal processing in making solar cells. The job holder operates various stations including metallization processes and is also responsible for testing and packaging of solar cells.
Course Duration/ Training Hours	420	
Trainee Qualification	12th Grade Or Completed 2nd year of 3-year diploma (after 10th) and pursuing regular diploma Or 10th grade pass plus 2-year NTC Or 8th pass plus 2-year NTC plus 1 Year NAC plus CITS	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	Graduate/Diploma(Technical) With Two years of experience in a solar PV Cell manufacturing plant	
QP: <a href="#">SGJ/Q0203</a>		

### 16. Solar PV Entrepreneur SGJ/Q0901 v3.0

Scan QR or click on link to Access : <https://nqr.gov.in/qualifications/2325>

QUALIFICATION 's DETAILS		
NSQF Level	5	<b>Description</b> Solar Photovoltaic Entrepreneur is an individual who ventures into Solar market to lead an enterprise. He/She has the understanding of solar business models, market, technical knowledge of solar PV plants/system, along with components procurement and financing. Solar Photovoltaic Entrepreneur can prepare the feasibility study report and perform basic energy generation forecasting using simulation software for solar PV system and is also responsible for the managing the complete Solar PV project lifecycle.  Candidate must choose at least one elective from the following. A maximum of 2 electives can be chosen. Elective 1: Solar PV Rooftop business Elective 2: Solar PV pumping business Elective 3: Civil works of ground mounted solar photovoltaic power plant business Elective 4: Electrical works of ground mounted solar photovoltaic power plant business
Course Duration/ Training Hours	540	
Trainee Qualification	10th grade pass with 4 Years of experience relevant experience Class 12th with 3 years of relevant experience in solar sector Or Completed 3 year diploma after 10th with 1 Year of experience relevant experience	
Entry Age (years)	Minimum age: 21	
Trainer Qualification & Experience	Graduate (BA/B.Sc/B.Com/BBA) With Two years of relevant work experience in solar sector Or BE/BTech/Post Graduate in relevant discipline with Minimum 1 year of relevant industry experience	
QP: <a href="#">SGJ/Q0901</a>		

### 17. Junior Technician-Solar EV Charging Station SGJ/Q4001

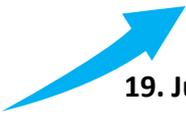
Scan QR or click on link to Access : <https://nqr.gov.in/qualifications/3526>

QUALIFICATION 'S DETAILS		
<b>NSQF Level</b>	3	<b>Description</b>  Junior Technician- Solar EV charging station performs tasks while ensuring safety, quality and good workmanship for installation, usage along with O&M of solar powered Electric Vehicle (EV) charging station as per standard industry practices.  He/She may also conduct site surveys and evaluate various parameters to decide the suitability of site for the installation of solar powered EV charging station. Also, the individual performs the regular maintenance for Solar powered charging station.
<b>Course Duration/ Training Hours</b>	330	
<b>Trainee Qualification</b>	8th Class Pass + NTC (2 years) OR 10th Class Pass OR Certified on relevant NSQF Level 2 (e.g. Solar PV Project Helper), with 2 years of relevant experience	
<b>Entry Age (years)</b>	Minimum age: 16	
<b>Trainer Qualification &amp; Experience</b>	Class X + ITI/Diploma In relevant trades with two years experience Graduate (BA/B.Sc/B Com/BBA)	
<b>QP: <a href="#">SGJ/Q4001</a></b>		

### 18. Entrepreneur – Solar EV Charging SGJ/Q1801

Scan QR or click on link to Access : <https://nqr.gov.in/qualifications/3531>

QUALIFICATION 'S DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>  Solar EV Charging Entrepreneur sets up an enterprise with an aim to provide a charging service to EV users while utilising solar energy (along with Grid power). This entrepreneur shall establish, setup and operate solar integrated EV charging stations/ Charging Point(s) for charging of electric vehicles at various locations to enable faster adoption of EVs across the country by ensuring safe, reliable, accessible, low cost and sustainable EV charging infrastructure. As per the revised guidelines by the Ministry of Power, an entity is free to set up public charging EV stations provided such stations meet the technical, safety, performance standards and protocol laid down by the Ministry of Power, Bureau of Energy Efficiency (BEE) and Central Electricity Authority.
<b>Course Duration/ Training Hours</b>	390	
<b>Trainee Qualification</b>	10th Class Pass + NTC (1 year after Class 10th), with 1 year of relevant experience OR 10th Class Pass + NTC (2 years after Class 10th) OR 12th Class Pass, with 6 months of relevant Experience OR Certified on relevant NSQF Level 3, with 2 years of relevant experience	
<b>Entry Age (years)</b>	Minimum Age:16	
<b>Trainer Qualification &amp; Experience</b>	12th Pass With two years of Experience.	
<b>QP : <a href="#">SGJ/Q1801</a></b>		



## 19. Junior Technician - Solar Cold Storage/Q4002

Scan QR or click on link to Access : <https://nqr.gov.in/qualifications/3527>

QUALIFICATION'S DETAILS		
NSQF Level	3	<b>Description</b> Junior Technician-Solar Cold Storage performs installation along with operations and maintenance (O&M) of a solar cold storage/cold room solution while meeting the performance and reliability needs of customers by incorporating quality craftsmanship and complying with all applicable industry standards, quality and safety requirements.
Course Duration/ Training Hours	330	
Trainee Qualification	8th Class Pass + NTC (2 years) OR 10th Class Pass OR Certified on relevant NSQF Level 2 (e.g. Solar PV Project Helper), with 2 years of relevant experience	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	Class 12th pass with four years of relevant experience.	
QP: SGJ/ <a href="https://nqr.gov.in/qualifications/3527">Q4002</a>		

## 20. Entrepreneur– Solar Cold Storage SGJ/Q1802

Scan QR or click on link to Access : <https://nqr.gov.in/qualifications/3530>

QUALIFICATION'S DETAILS		
NSQF Level	4	<b>Description</b> Solar Cold Storage Entrepreneur sets up an enterprise with an aim to provide a service (to Farmers/FPOs etc) for storing perishable agricultural and horticultural produce for increasing their shelf life and realise better price of the produce. This entrepreneur shall use an innovative solar based cold storage solution that can also be powered through the Grid and has thermal energy storage for providing backup during non-sunny hours.
Course Duration/ Training Hours	390	
Trainee Qualification	10th Class Pass + NTC (1 year after Class 10th), with 1 year of relevant experience OR 10th Class Pass + NTC (2 years after Class 10th) OR 10th Class Pass with 3 Year Diploma OR 12th Class Pass, with 6 months of relevant experience OR Certified on relevant NSQF Level 3, with 2 years of relevant experience	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	Class 12 <sup>th</sup> pass with three years of relevant experience.	
QP: SGJ/ <a href="https://nqr.gov.in/qualifications/3530">Q1802</a>		

# Wind Energy



## 21. Project Assistant Planner – Wind Power Plant SGJ/Q1201

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://NationalQualificationRegister(nqr.gov.in))

### QUALIFICATION'S DETAILS

NSQF Level		3	Description
Course Duration/ Training Hours		250	After the training, the candidate would be suitable to work as Assistant Planner – Wind Power Plant.
Trainee Qualification		8th grade pass and pursuing continuous schooling (in regular school with vocational subject with no experience required) or 8th grade pass with 2 years of NTC (after 8th with no experience required) or 10th grade pass (with no experience required) or 10th Class + I.T.I (in Electrical/ Mechanical/ Civil/ and related trades) OR Completed 3-year diploma (after 10th) (in Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation or in a related stream)	<p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Assist in project planning for wind power plant</li> <li>• Assist in project evaluation and monitoring for wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> <p>S/He would assists in carrying out planning of workflow for turbines &amp; electrical systems, Erection &amp; Commissioning (E&amp;C), help in conducting statistical studies of product quality and time usage and support to analyze production costs while complying with all operational manuals, applicable codes, standards and safety requirements</p>
Entry Age (years)		Minimum age: 16	
Trainer Qualification & Experience		ITI /Diploma Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation or B.Tech (Civil/Mechanical /Electrical/ Instrumentation / Electronics / Electrical and Electronics Eng.) or MSc Physics Minimum 3 years of relevant industry experience for ITI /Diploma (Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation)	
QP: <a href="#">SGJ/Q1201</a>			

## 22. Wind Resource Assessor and Site Surveyor-Wind Power Plant SGJ/Q1202

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

### QUALIFICATION'S DETAILS

NSQF Level		5	Description
Course Duration/ Training Hours	480		<p>After the training, the candidate would be suitable to work as Site Surveyor - Wind Power Plant.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Conduct site survey for wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> <p>S/He carries out site inspection, site assessment, checking site access, approach roads, grid availability for power evacuation, substation availability &amp; its capacity and other relevant proximity of site.</p>
Trainee Qualification	<p>10th Grade pass with 4 year relevant experience or 12th Grade pass with 2 year relevant experience or Completed 3-year diploma after 10th (Government recognized 3 years Diploma after class XII in Electrical/ Mechanical/ Civil/Electronics &amp; Communication / Control &amp; Instrumentation) with 1-year relevant experience or</p> <p>Completed 2nd year of UG/ Pursuing 2nd year of UG and continuous education in a relevant discipline</p>		
Entry Age (years)	Minimum age: 18		
Trainer Qualification & Experience	Government recognized 3 years Diploma after class XII in Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation		
QP : <a href="http://nqr.gov.in">SGJ/Q1202</a>			

## 23. Construction Technician- Wind Power Plant (Elective: Mechanical/Electrical/Civil) SGJ/Q1401

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

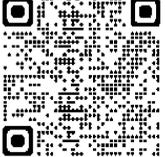
### QUALIFICATION'S DETAILS

NSQF Level		4	Description
Course Duration/ Training Hours	420		<p>After the training, the candidate would be suitable to work as Construction Technician (Mechanical) - Wind Power Plant.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Carry out the installation of components of wind power plant</li> <li>• Perform testing and commissioning of mechanical/electrical/civil components of wind power plant</li> <li>• Perform basic health and safety practices at project site</li> <li>• Work effectively with others</li> </ul> <p>S/He would carry out installation, testing, erection &amp; commissioning of all parts &amp; components of wind power plant including WTG, transformer, blades, nacelle, junction boxes and other associated accessories as per design drawing.</p>
Trainee Qualification	<p>12th Grade Pass without experience Or 10th Grade Pass plus 1 year NTC plus 1 year NAC/ or ITI after Class 10th (Electrician /Mechanical/ Fitter/Welder/ and related trades) or 10th Grade Pass with 2 years of relevant experience or</p> <p>Government recognised 3 years Diploma (Electrical/ Mechanical/ Civil/Electronics &amp; Communication / Control &amp; Instrumentation)</p>		
Entry Age (years)	Minimum age: 16		
Trainer Qualification & Experience	BE/B.Tech with two years of Relevant experience		
QP: <a href="http://nqr.gov.in">SGJ/Q1401</a>			



## 24. CMS Engineer- Wind Power Plant SGJ/Q1501

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

QUALIFICATION'S DETAILS		
NSQF Level	5	<b>Description</b>  After the training, the candidate would be suitable to work as CMS Engineer- Wind Power Plant. S/He would be responsible for carrying out installation and commissioning of Condition Monitoring System (CMS) of the wind power plant.  S/He will be trained to: <ul style="list-style-type: none"> <li>• Carry out installation and commissioning of Condition Monitoring System of Wind Power Plant</li> <li>• Operate and Maintain CMS of Wind Power Plant</li> <li>• Perform basic health and safety practices at Project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> S/he would further, plan and monitor the operation and maintenance of the CMS with a continuous stream of system data, mostly based on vibration monitoring and other operating conditions.
Course Duration/ Training Hours	480	
Trainee Qualification	10th Grade pass with 4 year relevant experience Or 12th Grade pass with 2 year relevant experience or Completed 3 year diploma after 10th with 1 year relevant experience or Completed 2nd year of UG	
Entry Age (years)	Minimum age: 19	
Trainer Qualification & Experience	BE/B.Tech with two years of Relevant experience	
QP: <a href="http://nqr.gov.in">SGJ/Q1501</a>		

## 25. O&M Mechanical Technician – Wind Power Plant SGJ/Q1502

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://nqr.gov.in)

QUALIFICATION'S DETAILS		
NSQF Level	4	<b>Description</b>  After the training, the candidate would be suitable to work as O&M Mechanical Technician –Wind Power Plant.  S/He will be trained to: <ul style="list-style-type: none"> <li>• Carry out operation of mechanical components of wind power plant</li> <li>• Carry out maintenance of mechanical components of wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> S/He would carry out operations and maintenance of mechanical components of wind power plant, complying with all operational manuals, applicable codes, standards, and safety requirements.
Course Duration/ Training Hours	420	
Trainee Qualification	12th Grade Pass without experience Or 10th Grade Pass plus 1 year NTC plus 1 year NAC/ or ITI after Class 10th (Electrician /Mechanical/ Fitter/Welder/ and related trades) or 10th Grade Pass with 2 years of relevant experience or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)	
Entry Age (years)	Minimum Age:16	
Trainer Qualification & Experience	BE/B.Tech with two years of Relevant experience	
QP : <a href="http://nqr.gov.in">SGJ/Q1502</a>		



## 26. O&M Electrical & Instrumentation Technician – Wind Power Plant SGJ/Q1503

Scan QR or click on link to Access : [National Qualification Register \(nqr.gov.in\)](http://National Qualification Register (nqr.gov.in))

QUALIFICATION'S DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	420	<p>After the training, the candidate would be suitable to work as O&amp;M Electrical &amp; Instrumentation – Wind Power Plant. S/He would inspect, diagnose, troubleshoot and repair electrical &amp; instrumentation systems of wind power plant.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Carry out operation of electrical &amp; instrumentation systems of wind power plant</li> <li>• Carry out maintenance of electrical &amp; instrumentation systems of wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> <p>S/he is expected to perform operation and maintenance of switchgear, transformer, O/H and U/G Lines, SCADA, communication system (Fibre Optics) and complying with all operational manuals, applicable codes/standards, and safety requirements.</p>
<b>Trainee Qualification</b>	<p>12th Grade Pass without experience Or 10th Grade Pass plus 1 year NTC plus 1 year NAC/ or ITI after Class 10th (Electrician /Mechanical/ Fitter/Welder/ and related trades) or 10th Grade Pass with 2 years of relevant experience or Completed 2nd year of 3-year diploma (after 10th) and pursuing regular or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/Electronics &amp; Communication / Control &amp; Instrumentation)</p>	
<b>Entry Age (years)</b>	Minimum age: 16	
<b>Trainer Qualification &amp; Experience</b>	BE/B.Tech with two years of Relevant experience	
<b>QP :</b> <a href="#">SGJ/Q1503</a>		



# Small Hydro



## 27. Small Hydro Power Plant Technician-(Jal Urja Mitra) SGJ/Q0604

Scan QR or click on link to Access : [www.nqr.gov.in](http://www.nqr.gov.in)

QUALIFICATION'S DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	450	
<b>Trainee Qualification</b>	12th Grade Pass (with Science) without experience or 10th Grade Pass plus 2 year NTC/ 10th Grade Pass plus 1 year NTC plus 1 year NAC or 10th Grade Pass with 2 years of relevant experience or 8th Pass plus 2 year NTC plus 1 year NAC plus CITS or Completed 2nd year of 3 year diploma (after 10th) and pursuing regular diploma or ITI after Class 10th (in Electrical/ Mechanical/ Civil/ Instrumentation and related trades) or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/ Control & Instrumentation or in a related trade )	<p>After the training, the candidate would be suitable to work as Small Hydro Power Plant Technician.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Study components and layout of Small Hydro Power (SHP) Plant</li> <li>• Inspect different components of Small Hydro Power (SHP) Plant</li> <li>• Start and shut Small Hydro Power (SHP) Plant</li> <li>• Maintain health, safety and hygiene at workplace</li> <li>• Work effectively with others</li> <li>• Study electro-mechanical system of Small hydro plant and its O&amp;M</li> <li>• Study Hydro-mechanical and Civil system of Small hydro plant and its O&amp;M</li> </ul> <p>S/He would be specialized to operate, test and maintain different electrical, hydro-mechanical, civil components of Small Hydro Power plant to meet the performance and reliability needs by incorporating quality workmanship and complying with all applicable codes, standards and safety requirements</p>
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	B.E/B.Tech Electrical/ Electronics/Agriculture/Civil/ Instrumentation	
<b>QP: <a href="#">SGJ/Q0604</a></b>		



## 28. Animal Waste Manure Aggregator (Option: Biogas Plant Operator/Compost Plant Operator) SGJ/Q6302 V 2.0

click on link to Access : [2022/ES/SCGJ/06730](https://2022/ES/SCGJ/06730)

QUALIFICATION DETAILS		
NSQF Level	3	Description
Course Duration/ Training Hours	390	After the training, the candidate would be able to work as animal waste manure aggregator. During the training.  S/He will be trained to: <ul style="list-style-type: none"> <li>• Set-up drop points for collecting waste manure</li> <li>• Collect waste manure, hygienically, from designated areas</li> <li>• Appropriately store and dispatch of waste manure</li> <li>• Maintain basic health and workplace safety</li> </ul> S/he will be given an option to get training to work as: Biogas Plant Operator, where in S/he will be trained on: <ul style="list-style-type: none"> <li>• Monitoring, operation and maintenance of biogas plant</li> </ul> Or Compost Plant Operator, where in S/he will be trained on: <ul style="list-style-type: none"> <li>• Monitoring, operation and maintenance of compost plant</li> </ul> On completion of training and certification, S/he will be able to collect and aggregate animal manure from sources such as animal farms, gaushalas, rural households etc., aggregate supplies, as per the market requirement for various end-uses.
Trainee Qualification	Class 10th Pass	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	10th Pass + Minimum 2 years of relevant experience	
QP : <a href="https://2022/ES/SCGJ/06730">SGJ/Q6302</a>		

## 29. Agri-residue Aggregator SGJ/Q6201 V 2.0

click on link to Access : [2022/ES/SCGJ/06728](https://2022/ES/SCGJ/06728)

QUALIFICATION DETAILS		
NSQF Level	3	Description
Course Duration/ Training Hours	330	After the training, the candidate would be able to work as Agri-residue Aggregator.  During the training, S/he will be trained to: <ul style="list-style-type: none"> <li>• Assess demand for agriculture residues and coordinate with farmers</li> <li>• Set up nodal points and procure agri-residues</li> <li>• Densify and store agri-residue bales</li> <li>• Sell and market agri-residue bales</li> <li>• Maintain basic health and workplace safety</li> </ul> On completion of training and certification, s/he would be able to appropriately collect agriculture residue from farmers, establish collection points, make assessment of quality and quantity of agriculture residues and accordingly decides price. S/He would be able to appropriately sort, densify and suitably store the bales. S/he would also perform sale of the bales based on end requirements.
Trainee Qualification	10th Pass or Ability to read and write with 3 years of relevant experience	
Entry Age (years)	Minimum Age: 16	
Trainer Qualification & Experience	10th Pass + Minimum 2 years of relevant experience	
QP : <a href="https://2022/ES/SCGJ/06728">SGJ/Q6201</a>		



**30. Biomass Depot Operator SGJ/Q6207 V 2.0**  
 click on link to Access : [2022/ES/SCGJ/06729](https://2022/ES/SCGJ/06729)

QUALIFICATION DETAILS		
NSQF Level	4	<b>Description</b>
Course Duration/ Training Hours	390	After the training, the candidate would be appropriately trained to work as Biomass Depot Operator.
Trainee Qualification	10th Pass with 2 years of experience or NSQF Level 3 certified Agri Residue Aggregator with 1 year of suitable experience	S/He will be trained to: <ul style="list-style-type: none"> <li>• Purchase of agriculture residue biomass from farmers/aggregators for stocking</li> <li>• Re-bale to densify collected agri-residue and standard of further supply</li> <li>• Appropriate storage of bales</li> <li>• Safety of bales and Depot from fire and other hazards</li> <li>• Maintain basic health and workplace safety</li> </ul>
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	10th Pass Plus Minimum 4 years of relevant experience	On completion of training and certification S/he would be appropriately able to handle, store and manage biomass at the storage depot. He/she will suitably undertake activities such as biomass receipt from suppliers, biomass pre-processing/densification and store in a manner so as to ensure its quality and safety from fire and other hazards as per standards.
QP : <a href="https://2022/ES/SCGJ/06729">SGJ/Q6207</a>		

**31. Feedstock Manager- Procurement and Composition SGJ/Q0501 V 1.0**  
 click on link to Access : [2022/WSSWM/SCGJ/05144](https://2022/WSSWM/SCGJ/05144)

QUALIFICATION DETAILS		
NSQF Level	6	<b>Description</b>
Course Duration/ Training Hours	600	The individual at work is responsible for managing the feedstock supply, analyzing the supply chain, controlling the cost, managing suppliers as well as maintaining all documentation pertaining to feed supply of a CBG plant.
Trainee Qualification	Graduate with 3 Years of experience in the relevant field Or Diploma (Government recognised 3 years Diploma) with 4 Years of experience in the relevant field Or Supervisor – Operations and Maintenance Compressed Biogas/Waste to Energy - Level 5 with 3 years of relevant work experience	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>Operate a CBG plant</li> <li>Assess supply chain to ensure feedstock procurement</li> </ul>
Entry Age (years)	Minimum age: 24	<ul style="list-style-type: none"> <li>▪ Manage the suppliers, financials and documentation.</li> <li>▪ Ensure compliance with applicable statutory laws, policies and procedures.</li> <li>▪ Work effectively with team, customers and others</li> <li>▪ Ensure health and safety at workplace</li> </ul>
Trainer Qualification & Experience	Diploma(Government recognised 3 years Diploma in relevant discipline Procurement /Waste Management/Green job with six years of relevant experience Graduate with four years of relevant experience	Trained feedstock manager is required to manage the feedstock procurement function in the compressed biogas (CBG)/waste to energy segment
QP: <a href="https://2022/WSSWM/SCGJ/05144">SGJ/Q0501</a>		



### 32. Technician - Operations and Maintenance (Compressed to Biogas/Waste to Energy) SGJ/Q0606 V 1.0

click on link to Access : [2022/WSSWM/SCGJ/05146](https://2022/WSSWM/SCGJ/05146)

QUALIFICATION DETAILS		
NSQF Level	4	<b>Description</b>  The individual at work is responsible for supporting effective and efficient operation and maintenance of a CBG plant by troubleshooting, repairing and ensuring maximum up-time of the plant.  S/He will be trained on and will be able to: Operate a CBG plant <ul style="list-style-type: none"> <li>▪ Monitor and maintain the CBG plant</li> <li>▪ Work effectively with others</li> <li>▪ Maintain health, safety and hygiene at workplace</li> </ul> A Technician - Operations and Maintenance Compressed Biogas/Waste to Energy is responsible for operating a CBG plant, monitoring and maintaining the CBG plant.
Course Duration/ Training Hours	420	
Trainee Qualification	12th Class (Science) with 1 Year of relevant work experience OR 10th Class + I.T.I (Electrician /Mechanical/ Fitter/Welder/ and related trades) with 1 Year of relevant work experience OR Diploma (Government recognised 3 years Diploma (Electrical/ Mechanical/Civil/Agriculture/ Electronics & Communication / Control & Instrumentation or in a related discipline ) OR	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	Class XII PASS With three years of relevant experience. or Diploma in Electrical or Mechanical Operation and Maintenance/Waste Management/Green job With two years of relevant experience	
QP: <a href="https://2022/WSSWM/SCGJ/05146">SGJ/Q0606</a>		

### 33. Plant Head - Operations (Compressed Biogas/Waste to Energy) SGJ/Q0607 V 1.0

click on link to Access : [2022/WSSWM/SCGJ/05145](https://2022/WSSWM/SCGJ/05145)

QUALIFICATIONS DETAILS		
NSQF Level	7	<b>Description</b>  The individual at work is responsible for proper operations of the plant, including monitoring the daily operations and production processes of the plant, managing the human resource, finance and administrative tasks at the CBG plant.  Plant Head Operations CBG/WTE is responsible for managing operations like evaluating the market analysis, analyze the operational plans, etc. The person has fully responsibility for output of group work and output.  Trained Plant Head is required to oversee the successful operation of a compressed biogas plant while ensuring smooth conduct of all supporting administrative, HR and financial aspects.
Course Duration/ Training Hours	600	
Trainee Qualification	B.Tech./B.E (Agriculture/ Environment /Civil/Mechanical/Electrical Engineering or Equivalent) with 8 Years of experience in the relevant field OR MTech /Post Graduate (Agriculture/Environment science) or in any relevant discipline with 6 years of experience in the relevant field	
Entry Age (years)	Minimum age: 28	
Trainer Qualification & Experience	B. Tech / B.E in relevant discipline (Environment /Civil/Mechanical/Electrical Engineering or Equivalent) with 10years of relevant experience MTech/Post Graduate in relevant discipline (Environment /Civil/Mechanical/Electrical Engineering or Equivalent) with 8 years of relevant experience.	
QP: <a href="https://2022/WSSWM/SCGJ/05145">SGJ/Q0607</a>		



**34. Supervisor -Operations & Maintenance (Compressed Biogas/Waste to Energy)SGJ/Q0605**  
 click on link to Access : [2022/WSSWM/SCGJ/05147](https://2022/WSSWM/SCGJ/05147)

QUALIFICATION DETAILS		
NSQF Level	5	<b>Description</b> The individual at work supervises the team of Operations and Maintenance (O&M) technicians and maintains the operations of plant systems and equipment of a Compressed Biogas (CBG) plant to ensure smooth and profitable functioning of the business and streamlining the workflow.  S/He will be trained on and will be able to: Operate a CBG plant <ul style="list-style-type: none"> <li>▪ Supervise plant operations, functioning of team and budget compliance</li> <li>▪ Supervise the plant maintenance</li> <li>▪ Work effectively with team, customers and others</li> <li>▪ Ensure health and safety at workplace</li> </ul> Supervisor - Operations and Maintenance Compressed Biogas/Waste to Energy is responsible for supervising plant operations, functioning of team and budget compliance, plant maintenance, etc. The person requires well developed skills to supervise operations of the CBG/WTE plant activates.
Course Duration/ Training Hours	500	
Trainee Qualification	Diploma (Government recognised 3 years Diploma (Electrical/Mechanical/Civil/ Agriculture/ Electronics & Communication /Control & Instrumentation) with 2 Years of experience in Relevant field or Graduate; BE/BTech (Agriculture/ Environmental Engineering or equivalent) OR Post Graduate (MSc Environment Science or equivalent);MTech (Agriculture/ Environmental Engineering or Equivalent)	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	Diploma (Government recognised 3 years Diploma in relevant discipline Operation & Maintenance / Waste Management /Green Jobs with four years relevant experience Graduate/Post Graduate in relevant discipline; BE/BTech or MTech in Environmental Engineering or equivalent with two years relevant experience	
QP: SGJ/Q0605		

**35. Manager- Waste Management Elective: Biomass Depot or Compost Yard or Dry Waste Center SGJ/Q6501**  
 click on link to Access :

QUALIFICATION DETAILS		
NSQF Level	6	<b>Description</b> After the training, the candidate would be suitable to work as Manager- Waste Management.  S/He will be trained to: <ul style="list-style-type: none"> <li>• Carry out market analysis</li> <li>• Formulate an operational plan</li> <li>• Ensure compliance with applicable statutory laws, policies and procedures</li> <li>• Ensure health and safety at workplace</li> </ul> <b>Elective 1:</b> Biomass Depot <ul style="list-style-type: none"> <li>• Specialize in overall operations of biomass depot and associated business</li> </ul> <b>Elective 2:</b> Compost Yard <ul style="list-style-type: none"> <li>• Specialize overall operations of compost yard and associated business</li> </ul> <b>Elective 3:</b> Dry Waste Center <ul style="list-style-type: none"> <li>• Specialize overall operations of dry waste collection center and associated business</li> </ul> On completion of training and certification, S/he would be appropriately able to carry out market analysis and formulate the business plan for the center. S/He will be able to manage the overall operation of the center and ensure health and safety at the workplace. S/He would ensure compliance of applicable statutory laws, policies and procedures relating to the center.
Course Duration/ Training Hours	90 (Elective:30)	
Trainee Qualification	Graduate + minimum two years of experience in the field of waste management	
Entry Age (years)	Minimum Age: 23	
Trainer Qualification & Experience	Graduate + minimum four years of experience in the field of waste management	



# Clean Cooking



## 36. Improved Cookstove Installer SGJ/Q2101 V 2.0

click on link to Access : [2022/ES/SCGJ/06019](https://2022/ES/SCGJ/06019)

QUALIFICATION DETAILS		
NSQF Level	4	<b>Description</b>
Course Duration/ Training Hours	390	<p>After the training, the candidate would be suitable to work as Improved Cookstove Installer. S/He would specialize in construction of cookstove as per standard mould(s) and installation at appropriate site.</p> <p>S/He will be trained on:</p> <ul style="list-style-type: none"> <li>• Collection of Materials and Preparation of Appropriate Mixture</li> <li>• Construction of Improved Cookstove</li> <li>• Installation and Demonstration of Improved Cookstove</li> <li>• Health and Work Safety while Construction and Installation of Improved</li> <li>• Cookstove Entrepreneurship in Installation of Improved Cookstove</li> </ul> <p>S/He would be able to select materials, prepare appropriate mixture, construct the Cookstove as per standard mould(s), embedding non- masonry items, fire for curing, installation at the appropriate site and demonstrate functioning of the Cookstove.</p>
Trainee Qualification	10th pass with 2 years of experience or Certified Portable Improved Cookstove Assembler at NSQF level 3 with 1 year of relevant work experience	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	10th Pass + 4 years of relevant industry experience	
QP: <a href="#">SGJ/Q2101</a>		

## 37. Portable Improved Cookstove Assembler SGJ/Q2102 V 2.0

click on link to Access : [2022/ES/SCGJ/06018](https://2022/ES/SCGJ/06018)

QUALIFICATION DETAILS		
NSQF Level	3	<b>Description</b>
Course Duration/ Training Hours	330	<p>After the training, the candidate would be suitable to work as Portable Improved Cookstove Assembler.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Collect Different Parts of Portable Improved Cookstove</li> <li>• Assemble and fit components of Portable Improved Cookstove</li> <li>• Work Safely while Assembling and Fitting of Component</li> </ul> <p>S/he will be able to assemble and fit various parts of the cookstove to manufacture the final product which meets performance and reliability standards. He /She will be able to incorporate quality craftsmanship and comply with all applicable standards.</p>
Trainee Qualification	Ability to read and write with 5 years of experience Or Or 8th grade pass with 1 year of experience	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	Grade 9th pass Plus two year of relevant experience	
QP : <a href="#">SGJ/Q2102</a>		



### 38. Portable Improved Cookstove Sales and Maintenance Executive SGJ/Q2104

click on link to Access : [2022/ES/SCGJ/06020](https://2022/ES/SCGJ/06020)

QUALIFICATION DETAILS		
NSQF Level	4	<b>Description</b>  After the training, the candidate would be suitable to work as Portable Improved Cookstove Sales and Maintenance Executive. After the training.  S/he will be trained on: <ul style="list-style-type: none"> <li>• Identification and operation of portable improved cookstove</li> <li>• Demonstration and handling of sales of portable improved cookstove</li> <li>• Health and work safety while identification and demonstration of portable improved cookstove</li> <li>• Aftersales and maintenance services of portable improved cookstoves</li> </ul> Portable improved Cookstove sales and maintenance executive is responsible for marketing, selling and aftersales service of Cookstove.
Course Duration/ Training Hours	390	
Trainee Qualification	11th Grade pass Or 10 grade pass and pursuing continuous schooling Or 10th Grade pass with 2 years of relevant experience	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	10th Pass + 4 years of experience in sales and maintenance	
QP : <a href="https://2022/ES/SCGJ/06020">SGJ/Q2104</a>		

### 39. Portable Improved Cookstove Distributor SGJ/Q2105 V 2.0

click on link to Access : [2022/ES/SCGJ/06021](https://2022/ES/SCGJ/06021)

QUALIFICATION DETAILS		
NSQF Level	5	<b>Description</b>  After the training, the candidate would be suitable to work as Portable Improved Cookstove Distributor.  S/he will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Ensure statutory compliances, laws, policies and procedures</li> <li>• Develop product portfolio</li> <li>• Recruit key personnel for management of operations</li> <li>• Develop demand and distribution channel</li> <li>• Manage overall operations of the business and its expansion</li> <li>• Ensure health and safety in operations</li> </ul> S/He will be responsible for increasing market for portable improved cookstoves through vendor selection, warehouse development, logistics and aftersales service support. S/He would develop a portfolio of products, undertake targeted promotion, and ensure availability of the products to potential customers.
Course Duration/ Training Hours	480	
Trainee Qualification	12th grade pass with 2 years of relevant experience Or 10th grade pass with 4 years of relevant experience	
Entry Age (years)	Minimum Age: 18	
Trainer Qualification & Experience	12th pass + 4 years of experience in distribution / channel sales or Graduate + 1 years of experience in distribution / channel sales	
QP: <a href="https://2022/ES/SCGJ/06021">SGJ/Q2105</a>		



# Waste Management



## 40. Recyclable Waste Collector and Segregator SGJ/Q6101

click on link to Access :

QUALIFICATION DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	160	After the training, the candidate would be suitable to work as Recyclable Waste Collector. S/He would be responsible for collection and proper segregation of Recyclable waste.
<b>Trainee Qualification</b>	Ability to read and write	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Collect Recyclable waste</li> <li>• Segregate Recyclable waste</li> <li>• Maintain health and work safety.</li> <li>• Entrepreneurship</li> </ul>
<b>Entry Age (years)</b>	Minimum age: 16	
<b>Trainer Qualification &amp; Experience</b>	10th Pass + Minimum 2 years of relevant industry experience	S/He would be able to properly collect, identify different types of waste and segregate at source or at collection center as per recycling / reuse / disposal requirement.

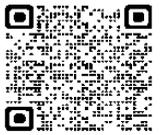
## 41. Waste Picker SGJ/Q6103

click on link to Access :

QUALIFICATION DETAILS		
<b>NSQF Level</b>	3	<b>Description</b>
<b>Course Duration/ Training Hours</b>	160	After the training, the candidate would be suitable to work as Waste picker. S/He will be able to collect and recover reusable and recyclable solid waste from the source of waste generation for sale to recyclers directly or through intermediaries to earn her/his livelihood.
<b>Trainee Qualification</b>	Not Applicable	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Search and collect reusable and recyclable refuse</li> <li>• Preparation and sale of reusable and recyclable refuse</li> <li>• Collection of waste from door-to-door</li> <li>• Maintain personal health and safety</li> </ul>
<b>Entry Age (years)</b>	Minimum Age: 18	
<b>Trainer Qualification &amp; Experience</b>	10th Pass + Minimum 2 years of relevant industry experience or working in relevant NGO/ waste management organization	S/He would be able to prepare the equipment used for waste collection, identify source of waste generation in local area including the streets, bins, landfills, material recovery facilities, processing and waste disposal facilities. Also identify different color codes used in waste management. As per type of refuse, s/he would suitably modify the collected waste, possibly for a better value.

## 42. Safai Karamchari (Elective: Wet Cleaning/ Mechanized Cleaning) SGJ/Q6102 V 2.0

click on link to Access : [2022/WSSWM/SCGJ/06727](https://2022/WSSWM/SCGJ/06727)

QUALIFICATION DETAILS		
NSQF Level	3	<b>Description</b>
Course Duration/ Training Hours	330	After the training, the candidate would be suitable to work as Safai Karamchari.
Trainee Qualification	5th pass with 3 years of experience Or 8th pass with 1 year of experience Or 8th pass+ ITI Or 10th pass	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Clean roads, pavements and public areas</li> <li>• Clean floor(s) of buildings</li> <li>• Maintain personal health &amp; safety while cleaning</li> <li>• Work effectively with others while cleaning</li> </ul>
Entry Age (years)	Minimum age: 16	S/He would be able to sweep with a broom and / or other suitable equipment to remove dust, debris and garbage. In buildings, s/he will be able to sweep the floor, scrub the floor using appropriate cleaning solution to remove the fine dust.
Trainer Qualification & Experience	10th Pass + Minimum 2 years of experience in supervising cleaning activity	Option1: Wet Cleaning S/he would specialize in wet cleaning, cleaning and washing bathrooms, lavatory and removing garbage and other waste in closed dustbin.
QP : <a href="https://2022/WSSWM/SCGJ/06102">SGJ/Q6102</a>		Option2: Mechanized Cleaning S/he will specialize in mechanized cleaning sweeps, cleaning and Removing garbage with the help of vacuum cleaner, mechanical sweeper, mechanical sweeper ride and mechanized scrubbing machine.

## 43. Septic Tank Junior Technician SGJ/Q6402 V 2.0

click on link to Access : [2022/ES/SCGJ/06403](https://2022/ES/SCGJ/06403)

QUALIFICATION DETAILS		
NSQF Level	3	<b>Description</b>
Course Duration/ Training Hours	390	Septic Tank Technician is responsible for fabrication of different types of septic tanks/ soak pit and install at the site(commercial/institutional/residential). He/ She is responsible for selecting suitable configuration of septic tanks as per client requirement and execute its fabrication and installation with fellow masons. He/ She also undertake the work of repair and maintenance of existing septic tanks.
Trainee Qualification	5th Pass+4 years of experience in masonry/plumbing work OR 8th Pass+1 year of experience in masonry/plumbing work OR 9th grade pass	After the training, he/she will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Assess the site and size of the septic tanks</li> <li>• Excavate, fabricate and install fixed septic tanks as per Central Public Health and Environmental Engineering Organization(CPHEEO) norms</li> <li>• Install prefabricated septic tanks</li> <li>• Repair and maintain septic tanks</li> <li>• Work effectively with co-workers</li> <li>• Maintain Health and safety in septic tank fabrication and installation</li> </ul>
Entry Age (years)	Minimum Age: 18	
Trainer Qualification & Experience	10th Pass, Minimum 2 years of experience in supervising masons and installation of septic tanks	
QP: <a href="https://2022/ES/SCGJ/06402">SGJ/Q6402</a>		



#### 44. Desludging Operator SGJ/Q6403 V 2.0

click on link to Access : [2022/ES/SCGJ/06731](https://2022/ES/SCGJ/06731)

QUALIFICATION DETAILS		
NSQF Level	3	<p><b>Description</b></p> <p>The Desludging Operator is responsible for emptying, transport and disposal of faecal sludge from the septic tank to desludging site / Faecal Sludge Treatment Plant. He /She has to operate pumps, suction hoses and other machinery/equipment to empty the septic tank and appropriately dispose the sludge. As an entrepreneur he/she would be trained to venture into desludging services for managing Faecal Sludge.</p> <p>After the training, he/she will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Empty sludge from the septic tank</li> <li>• Demonstrate preventive maintenance of desludging tank</li> <li>• Transport sludge in a safe manner to dedicated sludge disposal sites</li> <li>• Dispose sludge safely at the dedicated sludge disposal site</li> <li>• Set up venture for emptying, transport and disposal of sludge</li> <li>• Work effectively with co-workers</li> </ul>
Course Duration/ Training Hours	360	
Trainee Qualification	5th Pass+3 years of experience in masonry/plumbing work OR 8th Pass+1 year of experience in masonry/plumbing work OR 9th Pass	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	10th Pass, Minimum 2 years of experience in faecal sludge and septage management	
QP: <a href="https://2022/ES/SCGJ/06403">SGJ/Q6403</a>		

#### 45. Faecal Sludge Treatment Plant O&M Technician SGJ/Q6404

click on link to Access : [2022/ES/SCGJ/06404](https://2022/ES/SCGJ/06404)

QUALIFICATION DETAILS		
NSQF Level	4	<p><b>Description</b></p> <p>The Faecal Sludge Treatment Plant (FSTP) operation and maintenance technician is responsible for carrying out day-to-day operations of the FSTP. He /She is also responsible for routine maintenance of pumps, engines, motors, filters, bar screens, valves, pipes, and any other equipment used in FSTP.</p> <p>After the training, he/she will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Identify various components of Faecal Sludge Treatment Plant(FSTP)</li> <li>• Identify Repair and Maintenance tools and equipment</li> <li>• Identify Personal Protective Equipment</li> <li>• Perform day to day operation of Faecal Sludge Treatment Plant(FSTP)</li> <li>• Carryout routine maintenance of pumps, engines, motors, filters, bar screens, valves, pipes and any equipment's at the FSTP</li> <li>• Work effectively with co-workers</li> <li>• Maintain personal health and safety while operating FSTP</li> </ul>
Course Duration/ Training Hours	420	
Trainee Qualification	8th Class pass + ITI(2 year after 8th ) with 2 years of relevant experience OR 10th pass + ITI (1 year after 10th) with 1 year of relevant experience OR 10th Pass+ Diploma in a Government recognised 3 years Diploma course (in Electrical/ Mechanical/Civil/Plumbing/ Agriculture/ Control & Instrumentation or in a related discipline)	
Entry Age (years)	Minimum Age: 18	
Trainer Qualification & Experience	"Education Qualification : ITI /Diploma or B.Tech orThe education qualification can be relaxed in case of extraordinary relevant field experience	
QP: <a href="https://2022/ES/SCGJ/06404">SGJ/Q6404</a>	 <p>Minimum 3 years of relevant industry experience for ITI /Diploma or Minimum 2 years of relevant industry experience for B.Tech</p>	



#### 46. Wastewater treatment plant technician SGJ/Q6601

click on link to Access :

QUALIFICATION DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	200	<p>After the training, the candidate would be suitable to work as Wastewater Treatment Plant Technician. S/He would specialize in operation &amp; maintenance of the Industrial and Housing Societies Wastewater Treatment Plants.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Operate the Wastewater Treatment Plant</li> <li>• Monitor and Maintain Wastewater Treatment Plant</li> <li>• Work Safety at Wastewater Treatment Plant</li> </ul>
<b>Trainee Qualification</b>	12th Pass, 10th Pass + ITI/Diploma, 8th pass + 4 years of experience as Wastewater Treatment Plant Helper	
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	ITI /Diploma + 3 years of relevant industry experience or B.Tech. + 2 Years of relevant industry experience or Certified Wastewater Treatment Plant technician + 2 years of relevant experience (education qualification can be relaxed in case of extraordinary relevant experience)	

#### 47. Wastewater treatment plant Helper SGJ/Q6602

click on link to Access :

QUALIFICATION DETAILS		
<b>NSQF Level</b>	3	<b>Description</b>
<b>Course Duration/ Training Hours</b>	160	<p>After the training, the candidate would be suitable to work as Wastewater Treatment Plant Helper. S/He would assist in Operation and Maintenance of Industrial and Housing Societies Wastewater Treatment Plant.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Maintain the Wastewater Treatment Plant</li> <li>• Assist the Supervisor in Wastewater Treatment Plant</li> <li>• Work Safety at Wastewater Treatment Plant</li> </ul> <p>S/He would be able to help in operation of Wastewater Treatment Plant and other related equipment. S/He would be able to measure and record all meter and gauge readings, perform maintenance on filters and valves, Cleaning of Tanks, cleaning of work area and equipment.</p>
<b>Trainee Qualification</b>	8th pass	
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	ITI /Diploma + 3 years of relevant industry experience or B.Tech. + 2 Years of relevant industry experience or Certified Wastewater Treatment Plant technician + 2 years of relevant experience (education qualification can be relaxed in case of extraordinary relevant field experience)	
<b>QP :</b>		



#### 48. Paper Bag Junior Technician SGJ/Q8701 V 2.0

click on link to Access : [2022/ES/SCGJ/06405](https://2022/ES/SCGJ/06405)

QUALIFICATION DETAILS		
NSQF Level	3	<p><b>Description</b></p> <p>After the training, the candidate would suitable to work as Technician - Paper Bag Manufacturing. S/He has the competence to cut, crease, fold, paste and print the paper bag from different types of paper including recycled and waste paper using appropriate equipment. S/He will be trained on paper bag manufacturing and will be able to :</p> <ul style="list-style-type: none"> <li>• Check machines, tools and equipment for paper bag manufacturing</li> <li>• Carry out paper cutting and creasing</li> <li>• Make eyelets in paper bag</li> <li>• Paste, print and dispatch paper Bag</li> <li>• Maintain basic health and workplace safety</li> <li>• Improve communication and soft skills which include etiquette manner, perception etc.</li> </ul> <p>S/He would make eyelets and fix the handle or paste paper twisted rope handle to manufacture the final product. Suitably pack the finished product for dispatch to the customer.</p>
Course Duration/ Training Hours	360	
Trainee Qualification	Ability to read and write+5 years of relevant work experience Or 5th Pass+4 years of relevant work experience Or 8th Pass+1 year of relevant work experience` Or 9th Pass	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	9th pass with two years of experience in relevant organization or similar occupation	
QP: <a href="https://2022/ES/SCGJ/06405">SGJ/Q8701</a>		

#### 49. Paper Bag Maker-Micro Entrepreneur SGJ/Q8702 V 2.0

click on link to Access : [2022/ES/SCGJ/06406](https://2022/ES/SCGJ/06406)

QUALIFICATION DETAILS		
NSQF Level	5	<p><b>Description</b></p> <p>After the training, the candidate would suitable to work as Paper Bag Maker. S/He has the competence to carry out market analysis and sets up a production unit for manufacturing paper bags from paper/recycled paper. She/He will be trained on developing enterprise for paper bag manufacturing unit and will be able to :</p> <ul style="list-style-type: none"> <li>• Carry out market analysis for raw material procurement and assess demand of paper bag</li> <li>• Identify key suppliers of raw material for paper bag</li> <li>• Prepare a business plan for marketing a paper bag</li> <li>• Liaise with government authorities/local authorities, corporation etc. for smooth conduct of business operations</li> <li>• Improve Entrepreneurship skills</li> <li>• Acquire requisite infrastructure/land</li> <li>• Set up and manage paper bag manufacturing plant</li> <li>• Manage human resource</li> <li>• Ensure health and safety at workplace</li> <li>• Improve communication and soft skills which include etiquette manner, perception etc.</li> </ul> <p>S/he would source and use different kind of papers as per client requirement and sell paper bags through different channels. S/he ensures compliance with statutory requirements for setting up of the production unit. S/he is also responsible for overall management, recruitment and sustenance of the business</p>
Course Duration/ Training Hours	420	
Trainee Qualification	8th grade pass (+ ITI ) with 2 Years of experience relevant Or 10th grade pass with 2 Years of experience relevant experience Or 12th grade Pass with 6 Months of experience relevant	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	10th pass with four years of experience in Paper Bag Manufacturing Or 11th pass with two years of experience in Paper Bag Manufacturing	
QP : <a href="https://2022/ES/SCGJ/06406">SGJ/Q8702</a>		



### 50. Junior Technician - Rooftop Rainwater Harvesting SGJ/Q4003 V 1.0

click on link to Access : [2022/POW/SCGJ/06463](https://2022/POW/SCGJ/06463)

QUALIFICATION DETAILS		
NSQF Level	3	<b>Description</b>  The individual at work is responsible for performing site survey, and installation of rainwater harvesting systems across different consumer categories/buildings types. The individual will also be responsible for routine maintenance of rainwater harvesting systems.  He/She should be able to : <ul style="list-style-type: none"> <li>• Types of tools, equipment, and machines required for installation of rainwater harvesting unit</li> <li>• Processes involved in construction of rainwater harvesting systems</li> <li>• Quality parameters of the raw material</li> <li>• Procedure to keep the working area clean and safe</li> <li>• Maintain personal health &amp; safety at workplace</li> </ul>
Course Duration/ Training Hours	330	
Trainee Qualification	8th Class Pass + NTC (2 years) OR Class 10th Pass OR Previous relevant Qualification of NSQF Level 2, with 2 years of relevant experience	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	Class X PASS With two years of relevant experience.	
QP: SGJ/ <a href="https://2022/POW/SCGJ/06463">Q4003</a>		

### 51. Rooftop Rain Water Harvesting Entrepreneur SGJ/Q4101 V 1.0

click on link to Access : [2022/ES/SCGJ/06464](https://2022/ES/SCGJ/06464)

QUALIFICATION DETAILS		
NSQF Level	4	<b>Description</b>  Rooftop Rainwater Harvesting Entrepreneur shall analyse key parameters for rain water harvesting system, estimate cost parameters and oversee its installation and maintenance.  S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Develop and mobilize rooftop Rain Water Harvesting business</li> <li>• Work effectively with others</li> </ul> He/she is expected to know the key elements of rooftop rain water harvesting system, their functions, cost, installation & maintenance procedure and other business related aspects
Course Duration/ Training Hours	420	
Trainee Qualification	10th Class Pass + NTC (1 year after Class 10th), with 1 year of relevant experience OR 10th Class Pass plus 3 Years Diploma OR 12th Class Pass, plus 6 months of relevant experience	
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	Class X + ITI/Diploma With two years of relevant experience. Graduate (BA/B.Sc/B Com/BBA) With one year of relevant experience.	
QP: SGJ/ <a href="https://2022/ES/SCGJ/06464">Q4101</a>		



# Green Hydrogen



52. Green Hydrogen Plant Technician SGJ/Q0120 V 1.0  
 click on link to Access : [QG-04-ES-00146-2023-V1-SCGJ](#)

QUALIFICATION DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	420	Green Hydrogen Plant Technician shall perform testing, installation and facility integration of electrolyser, repairs, troubleshooting, upkeep and maintenance of electrical control systems, protection systems, and other auxiliary equipment and associated tools in Green hydrogen generation facilities. S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Assist in installation and maintenance of Green Hydrogen plant</li> <li>• Maintain personal health &amp; safety at workplace.</li> </ul> The job holder will be responsible for the continuous supply of renewable power for its integration with the electrolyzers and the other process equipment for generating Green Hydrogen. This role works closely with the power supply project, testing, plant engineering, process operation, control & operation across the green hydrogen generation plant.
<b>Trainee Qualification</b>	12th Grade OR Completed 2nd year of 3-year diploma (after 10th) and pursuing regular diploma OR 10th Grade Pass with 2 year relevant experience OR 11th grade pass and pursuing continuous schooling	
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	ITI /Diploma Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation Minimum 3 years of relevant industry experience for ITI /Diploma (Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation) B.Tech (Civil/Mechanical /Electrical/ Instrumentation / Electronics / Electrical and Electronics Eng.) or MSc Physics Minimum 2 years of relevant industry experience	
<b>QP:</b> <a href="#">SGJ/Q0120</a>		



**53. Green Hydrogen Plant Entrepreneur SGJ/Q0121 V 1.0**  
 click on link to Access : [QG-05-ES-00145-2023-V1-SCGJ](https://www.scgj.gov.in/q0121)

QUALIFICATION DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	480	<p>Green Hydrogen Plant Entrepreneur would identify the potential market and the client needs/ requirements to propose the right kind of technically and economically feasible solution to set up green hydrogen plant. He/she is also expected to undertake specific works/sub component installations of a green hydrogen plant.</p> <p>S/He will be trained on and will be able to:            Develop and mobilize Green Hydrogen business            Develop strategies for Green Hydrogen business            Work effectively with others</p> <p>He/she should have general concepts of physical and chemical properties of green hydrogen and how to safely handle the gas. S/he should possess the ability to speak, read and write in the local vernacular language and English which is always preferred.</p>
<b>Trainee Qualification</b>	Completed 2nd year of UG OR Completed 2nd year of diploma (after 12th) OR Completed 3 year diploma after 10th with 1 year of relevant experience OR 12th Grade pass with 2 years of relevant experience OR 10th Grade pass with 4 years of relevant experience	
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	Diploma in Engineering Minimum 3 years of relevant industry experience for Diploma (Chemical, Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation) BE/ B.Tech Minimum 2 years of relevant industry experience for B.Tech (Chemical, Civil/Mechanical /Electrical/ Instrumentation / Electronics / MSc Physics	
<b>QP:</b> <b>SGJ/<a href="https://www.scgj.gov.in/q0121">Q0121</a></b>		



# 7<sup>th</sup> Annual General Meeting

Minutes of the Meeting





# Minutes of 7<sup>th</sup> Annual General Meeting

The Seventh Annual General Meeting of the Skill Council for Green Jobs was held at 12.15 pm on 19th September, 2022 under the Chairmanship of Mr. Sameer Gupta, CMD, Jakson Group, and Chairman, SCGJ through video conferencing.

## Following were present in the Meeting:

1. Mr. Sameer Gupta, CMD, Jakson Group in Chair
2. Dr Vasanta.V Thakur, Director, Ministry of New and Renewable Energy
3. Mr Mohan Reddy, Head - SSC Governance, NSDC
4. Mr O P Taneja, Advisor, Indian Wind Turbine Manufacturers Association
5. Dr K. Balaraman, DG, National Institute of Wind Energy
6. Dr P Kanagavel, Director and Division Head, National Institute of Wind Energy
7. Mr Sunil Jain, Partner, Essar capital (Former CEO & ED, Hero Future Energies)
8. Mr Saurabh Sanyal, Secretary General, PHD Chamber of Commerce
9. Mr Kacho Ahmad Khan, Chief Executive Officer, KREDA
10. Mr. P. Sreenivasan, GM (HR), IREDA
11. Mr. Subrahmanyam Pulipaka, CEO, National Solar Energy Federation of India
12. Mr Mukul Saxena, Head - Training Content & Technology, Tata Power
13. Mr Manohar Krishna, Managing Director, Kam-Avida Enviro Engineers Pvt. Ltd.
14. Mr Vijay Rathi, Managing Director, Energy Devices
15. Mr. Imteyaz Ali, Proprietor, Sarthak E - Waste Pvt. Ltd.
16. Mr Giriraj Sharma, Proprietor, Balaji Management and Services Pvt. Ltd.
17. Ms Bharti Chaturvedi, Chief Executive Officer, Chintan India
18. Lt Col Monish Ahuja (Retd), Chief Executive Officer, PRESPL
19. Mr Pravek Saxena, Chief Executive Officer, Smalt & Beryl India Pvt. Ltd.
20. Mr Randhir Singh, Director, Emperia Energy Pvt. Ltd,
21. Mr Amresh Awasthi, CEO, Kleenwel Enviro Engineering Services
22. Ms Alka Awasthi, Proprietor, Ansha Services
23. Mr JS Bhatia, COO, BVG India Limited
24. Mr Lucky Agarwal, Managing Director, Solartech Sarthi Pvt Ltd
25. Mr Shaz Mohsin, Business Head ASW Projects Pvt Ltd
26. Mr Sachin Rele, Managing Director, Autonic Energy Systems Pvt Ltd
27. Mr Prasant Panigrahi, Managing Director, Gayatri Solar Private Ltd.
28. Ms Ritu Tak, Principal, Bharatiya Skill Development University.
29. Mr Sundaresan TP, General Secretary Satyam Grama Sangham.
30. Mr Arpit Sharma, COO, SCGJ
31. Dr P. Saxena, CEO, Skill Council for Green Jobs, Member Secretary

## Also present:

32. Dr (Mrs.) P. Dhamija, Advisor – Biomass and Sustainable Livelihoods, SCGJ
33. Ms Sangeeta Patra, Vice President & Head – Marketing and Partnerships, SCGJ
34. Mr Deepak Rai, Head – Standards and Research, SCGJ
35. Mr Ajit Kumar Samanta, GM Finance
36. Mr Sarvesh Pratap Mall, SCGJ
37. Mr Girish Balasubramanyam, SCGJ
38. Mr Vibhash Trivedi, SCGJ
39. Mr Kamal Saxena, SCGJ
40. Mrs Sonia Parashar, SCGJ
41. Mr Phool Badan Singh, SCGJ
42. Ms Manisha Chaudhary, SCGJ
43. Mr Ankur Sood, SCGJ
44. Mr Manohar Ray, SCGJ
45. Mr Rohit Kumar, SCGJ



# Minutes of 7<sup>th</sup> Annual General Meeting

The Meeting commenced its proceedings with the approval of the Chairman.

## Welcome and opening remarks by the Chairman

1. Mr. Sameer Gupta, Chairman, SCGJ, welcomed members present in the 7th Annual General Meeting of SCGJ. He mentioned that India is clearly on the part of growth and we are well poised to be amongst top three or four economies of the world carbon neutrality agenda has gained momentum and is being driven by three things Climate change mitigation; Energy security; and third is net zero targets. In 2018, only 25% of the countries had decarbonized agenda and today it is 90% plus. I think this is a major shift, there is a clear realization that renewables will have a key role to play in driving this carbon neutrality agenda, both in India and across the world.

2. As we are all aware, our Hon`ble Prime Minister had made three bold commitments in COP 26 conference last year in Glasgow, one was cut on emission by 1 billion tons by 2030, other was targeting 500 gigawatts of renewable capacity by 2030, which will be close to 50% of the total installed capacity of power and third is to make India net zero by 2070. I think this brings a huge responsibility on each one of us on all the citizens of this country.

3. Aatma Nirbhar Bharat and making India initiatives, which were launched couple of years back have two clear objectives. One is to make our country self-reliant; another is to position India to be an alternative supply chain destination for the world. This is an apt opportunity for our country to make our global presence felt in renewable energy sector. Perhaps to my mind, it is now or never.

4. To summaries, he mentioned that there are five global mega trends, which are changing the nature of work and the skills demand (i) Climate change, (ii) Technical, technological changes and disruptions (iii) Demographic shifts , (iv) Urbanization and (v) Globalization of value chains. For being successful in 21st century, one needs a comprehensive skill set, which includes cognitive skills, socio-economic skills, technical skills, and digital skills. There is a new education policy, which envisages introduction of vocational education in schools and colleges.

5. Skill Council for Green Jobs has taken many initiatives and will be presented in this meeting shortly. I would not hesitate to say that Skill Council for Green Jobs has been able to deliver the promise of skills development in green sectors in this country, not only in this country but they have been associated with ISA, where there is a contribution of Skill Council for Green Jobs in global arena as well. They have played their role well, and their presence is being felt in this field. My best wishes continue to be there with the entire team of Skill Council of Green Jobs. Chairman started with the formal agenda of the meeting.

## Agenda Item 7.01

To grant Leave of Absence to the members not present in the meeting.

**7.01.01** The Chairman was requested to grant leave of absence to the members not present in the meeting.

**7.01.02** The Chairman granted leave of absence to all members not present in the Annual General Meeting.

## Agenda Item 7.02

Presentation of Minutes of the Sixth Annual General Meeting of SCGJ held on 21st September, 2021

**7.02.01** Minutes of the Sixth Annual General Meeting of SCGJ held on 21st September, 2021 were circulated to all the members. It was informed that no comments were received. The minutes were presented before the Members of General Body.

**7.02.01** The General Body members approved the Minutes of the Sixth Annual General Meeting.



# Minutes of 7<sup>th</sup> Annual General Meeting

## Agenda Item 7.03

Action Taken Report on the decisions of the Sixth Annual General Meeting of SCGJ

**7.03.01** The General Body noted the actions taken on the decisions taken in the Sixth Annual General Meeting.

## Agenda Item 7.04

Performance during 2021-22 and 1st quarter of 2022-23 (up to 31.08.2022)

**7.04.01** CEO, SCGJ made a detailed presentation on the activities of SCGJ during 2021-22 and 1st quarter of 2022-23 (up to 31.08.2022).

A 10 minutes video film was presented to the meeting showing 7 years journey of SCGJ.

**7.04.02** Further it was mentioned that the year 2021- 22 was a consolidation year, strengthening SCGJ technical capabilities and review of qualifications and training materials. However, with the restrictions on classroom trainings, SCGJ adopted E Learning through launching SCGJ E Learning Management System and delivered various online courses and virtual trainings which included multiple trainings on various themes in solar in three languages for 1300 trainees from 82 Inter National Solar Alliance (ISA) member countries. SCGJ has also developed two Greening NOSs which are being adopted by all SSCs for the QPs development. Further, SCGJ has developed courseware for effectively incorporating greening attributes across all job roles, which would further contribute towards “Net Zero” emissions targets.

**7.04.03** It is reported that since its inception, in Oct 2015, SCGJ has developed (and subsequently revised) 44 NSQC approved Qualification Packs (QPs) also referred as “Qualifications” or “Job Roles” across key thematic areas including solar PV segment, wind energy, small hydro, waste and waste- water management, clean cookstove, other green jobs areas etc. on which cumulatively over 5,04,000 (over Five lakh) candidates have been certified so far. Majority of the candidates have been trained in waste & water-management job roles (over 4 lakhs) along with various solar job roles (over 1 lakh). For the latter, majority of the trainings have been done on Solar Installer (Suryamitra) job role (Over 80,000) which is a flagship solar training program of the Ministry of New and Renewable Energy (MNRE), and is also implemented under “Pradhan Mantri Kaushal Vikas Yojana (PMKVY)” the flagship skilling scheme of the Ministry of Skill Development & Entrepreneurship (MSDE). In addition to technical aspects of solar PV system installation and O&M, Suryamitras are also trained on entrepreneurial aspects to improve their skills and overall employability.

**7.04.04.** As part of the Azadi ka Amrit Mahotsav, SCGJ is organizing a series of 75 webinars o bringing eminent Speaker in diverse field/sectors to enhance knowledge and learning and bring forth various development and innovation in Renewable Energy(RE) and waste management. In year 2021-22, SCGJ conducted 20 webinars and so far, 42 webinars have been organized. SCGJ has its own e-learning portal, where SCGJ training partners and experts announce and deliver online short trainings. The portal also helps in taking assessments and issue certificates. SCGJ has a new Green Job portal where both Industry and Candidates has interface to indicate job opportunities and availability of qualified candidates.

**7.04.05** World Skills International has announced Renewable Energy as a new skill to be introduced in World Skills 2022. Skill Council for Green Jobs has been assigned the responsibilities of coordination and facilitation of selecting the final team for participation at World Skills 2022. In order to prepare the candidates, SCGJ organized foundation course on Renewable Energy with the enrollment of 160 candidates. Candidates were selected for regional level skill competition held in Chandigarh and Visakhapatnam. SCGJ selected 11 candidates in Renewable energy and 9 for Water technology at National Level Skill Competition which was held in Delhi in January 2022.

**7.04.06** Skill Council for Green Jobs has carried out Skill Gap study for all its subsectors. For Renewable Energy, skill gap study was first carried out during 2016-17. It was revisited in April 2019 in coloration with CEEW and NRDC. The Waste Management, Green Construction, carbon sinks, clean cooking skill gap studies were undertaken in the year 2017. Following this almost every year, skill gap studies are undertaken on new and upcoming technologies and technical areas. During the year 2021-22 following studies have been taken up:



# Minutes of 7<sup>th</sup> Annual General Meeting

- Review of RE skill gap in view of the revised targets set by MNRE in the renewable energy.
- Solid Waste Management study in 4 metro cities.
- Study on Landscape of Green Jobs in India with the objective to advance green jobs in the Country- Funded by M/s J P Morgan under CSR Initiative

**7.04.07** During the 2021-22, SCGJ has received CSR Project funded by SBI Card on Design, supply, erection, and commissioning of 120 kWp Grid tied Solar PV plants at government hospitals in Delhi. As a part of the project, SCGJ installed 120 kWp grid tied solar power plant installed on Pt. Madan Mohan Malviya Hospital, Malviya Nagar, Delhi. Further, SBI Cards have recently sanctioned one more project for Design, supply, erection and commissioning of 450 kWp Grid tied Solar PV plant in Civil Hospital, Gurugram (150 kWp) and Government College for Girls, Sector 14(300 kWp) in Gurugram, Haryana. SCGJ will also provide skilling and maintenance assistance during the project period.

**7.04.08** SCGJ has implemented IRISE project supported by GIZ to improve PV rooftop installation quality through Up-skilling Indian solar installers (certified Suryamitras) through conducting 10 days training batch. One of the key objectives of the project is to upskill 1500 “certified suryamitras” through 30 training partners.

**7.04.09** Most recently, the World Bank has awarded a project titled “Researching solutions for Preparing Schools for Vocational Education in Solar Energy” to the Skill Council for Green Jobs (SCGJ). The project aims to undertake research, identify possible solutions and recommend possible innovations to strengthen the design and delivery of vocational skills in Renewable energy (with a focus on Solar Energy), for children aged 15 -18 years (Class 9-12) across Government Schools in Gujarat.

**7.04.10** UNDP has recently awarded Skill Council for Green Jobs (SCGJ) a project titled ‘Development of 4 nos. of qualification packs and Skilling 1000 persons on Green Electric Vehicle Charging Infrastructure and Solar Cold Storage’. The project aims to train and certify 1000 trainees across 5 qualifications including on PV Installer (Suryamitra) along with Basic and Advanced job role(s) in Solar cold storage and Solar based EV charging infrastructure. The project is also supporting development of 4 qualifications including an advanced and basic qualification for both Solar cold storage and Solar EV charging infrastructure on which cumulatively 700 trainees will be trained and certified across select locations.

**7.04.11** Under the National Knowledge Network(NKN), an advisory body has been set-up by the Ministry of Environment, Forest & Climate Change/ Central Pollution Control Board to support the implementation of the National Clean Air Programme (NCAP) with the support of the World Bank. The goal of this project is to develop a roadmap for the capacity building in the Air Quality Management sector aligned with the National Skills Qualification Framework of India. Under this project International Forum for Environment, Sustainability & Technology (iFOREST) in collaboration with SCGJ. SCGJ is actively participating in this effort with a view to understand the skill workforce required in the effort of Air Quality Action Forum (AQAF) and develop national qualification in this sector. In this regard a report has been prepared on ‘Jobs for Clean Air in India’. This report would form basis to develop various qualifications in this sector.

**7.04.12** SCGJ got the job portal developed and is now fully functional. SCGJ Job Portal is a technology initiative by Skill Council for Green Jobs to seamlessly connect employers with skilled candidates in the Green Energy Sector. On this platform employers create and publish the job post, monitor/track job applications while the candidates can register, apply for the job and track their application. Skill Council for Green Job’s Rozgar Portal is a unique technology intervention which makes job opportunities for skilled professional in green energy sector accessible by connecting them with coveted employers across India. It automates the entire talent acquisition process for employers, provides job opportunities to skilled workforce and help SCGJ make necessary interventions in Skill development activities to meet industry needs.

**7.04.13** SCGJ is developing an Entrepreneurship program around all its major qualifications including solar energy, solar power projects, solar water pumping, waste management etc. To start this effort, a two days physical training on Solar Rooftop Entrepreneurship was organized by SCGJ on March 7-8 2022 at its in house training facility in New Delhi. A similar 2 days physical training in coordination with Institute of Solar Power Technologies and Vocational Training (ISPTVT) was organised on 26-27 March 2022 at Central Power Training Institute, Hyderabad. The training event was organized through the support of Climate Policy Initiative.



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The Members noted the progress and complemented SCGJ team under the guidance of Mr. Sameer Gupta, Chairman for its commendable work.

## Agenda Item 7.05

To receive, consider and adopt the Annual Report and audited financial statements for the Financial Year ending 31.03.2022

**7.05.01** Dr. Saxena, CEO, SCGJ informed that important activities of Skill Council for Green Jobs during its Seventh year of operation (2021-22) are presented in the Annual Report 2021-22. The Annual report was circulated to all members through e mail along with agenda papers

**7.05.02** The General Body received, considered and adopted the Annual Report and audited financial statements for the Financial Year ending 31.03.2022, by passing the following resolution:

“...RESOLVED THAT pursuant to the provisions of the Societies Registration Act, 1860, and other applicable provisions, if any, annual report and audited financial statements of the Skill Council for Green Jobs be and is hereby approved.”

## Agenda Item 7.06

To consider and approve appointment of auditor for the financial year 2022-23

**7.06.01** The General Body Members were informed that M/s V.D. Tiwari & Co., Chartered Accountant, Delhi (Firm Registration No. 002882N) was appointed by the SCGJ as Statutory Auditors for the Year 2020-21 with the approval of General Body. M/s V.D. Tiwari & Co. has been auditors of SCGJ since inception of SCGJ. Their services have been very satisfactory. However, since that have completed five years, it is proposed to appoint new auditors of SCGJ for the year 2022-23.

**7.06.02** He further informed that after interacting with 3 CA firms and seeing their work experience, SCGJ has identified Ms VRSM & Co. Founded in 2012, VRSM & Co. is a Chartered Accountants firm providing Assurance, Taxation and Advisory services. The firm is engaged in the activities in the line of Corporate Law, Secretarial Compliances, Tax Matter, Audit, Accountancy, GST Compliances, RERA Compliances, covering a wide range of sub activities related to the profession.

**7.06.03** The Chairman, SCGJ requested the General Body to consider and approve appointment of message, VRSM & Co as auditors for the for financial year 2022-2023. Mr. Mohan Reddy, NSDC asked if they are CAG approved. Dr. Saxena clarified that VRSM & Co are CAG approved

**7.06.04** The General Body considered and approved appointment of auditor for the financial year 2022-2023 by passing the following resolution:

“RESOLVED THAT pursuant to the provisions of the Societies Registration Act, 1860, and other applicable provisions, if any, VRSM & Co., Chartered Accountant, Delhi (Firm Registration No. 016313 C) be and is hereby appointed as Auditors of the Society, to hold office from the conclusion of this Annual General Meeting until the conclusion of next Annual General Meeting of the Society, at such remuneration (including fees for certification) and reimbursement of out of pocket expenses for the purpose of audit as may be approved by the members of the Governing Council of the Society.”

## Agenda Item 7.07

Conversion of SCGJ from Registered Society to Section 8 Company

**7.07.01** It was informed that the Ministry of Skill Development and Entrepreneurship guidelines recommend that the SSCs which are Society should move towards Section 8 companies. This issue was earlier discussed in the 10th GC, 11th GC and 5th AGM held on September, 2021. The matter was discussed in detail in the 14th Governing Council meeting held on 21st February, 2022. After detailed deliberations, the GC has unanimously decided that SCGJ should go ahead with conversion to Section 8 company. SCGJ has appointed CA for this work and MOA & AoA has been drafted. The Draft MOA and AA for the new Section 8 company were discussed in the 15th GC to be held on today on 19th September, 2022.

A blue arrow pointing upwards and to the right is located in the top left corner.

# Minutes of 7<sup>th</sup> Annual General Meeting

**7.07.02** Considering the guidelines of MSDE and the decision of GC, it is proposed that the General Body may concur and “Resolve that the SCGJ, presently a registered Company may be converted in to Section 8 Company with the same name”.

**7.07.03** Mr. Sunil Jain mentioned that since we will be moving towards the section 8 company so we must talk to the new auditors that these existing accounts will have to migrated to the company-based accounts, right now we are like an NGO trust.

**7.07.04** It was further agreed that the application of the conversion of SCGJ to Section 8 company may to be signed by the following Industry members of GC:

- Mr Sameer Gupta, Chairman SCGJ
- Mr K.Krishan, the past Chairman of SCGJ.
- Mr. O.P.Tanaja, Treasure SCGJ
- Mr Sunil Jain , Member GC
- Mr Avhinav Mahajan, Member, SCGJ

**7.07.05** It was also decided that the SCGJ would continue as Registered Society till the date the process of its conversion is completed. All the present members of SCGJ (as society) would be asked if they would like to continue as member in the proposed section 8 company as well.

## Agenda Item 7.08

Any other item, with the permission of the Chair

Nil.

The meeting ended with a vote of thanks to the Chair.



# 15<sup>th</sup> & 16<sup>th</sup> Governing Council Meeting

Minutes of the Meeting





# Minutes of 15<sup>th</sup> Governing Council Meeting

The Fifteenth Meeting of the Governing Council of Skill Council for Green Jobs was held at 11.00 am on 19th September, 2022, under the Chairmanship of Mr. Sameer Gupta, Chairman and Managing Director, Jakson Group, through video conferencing.

## Following GC Members were present in the meeting:

1. Mr Sameer Gupta, CMD, Jakson Group - in Chair
2. Dr Vasanta.V Thakur, Director, Ministry of New and Renewable Energy
3. Mr Mohan Reddy, Head - SSC Governance, NSDC
4. Mr O P Taneja, Advisor, Indian Wind Turbine Manufacturers Association
5. Dr K. Balaraman, DG, National Institute of Wind Energy
6. Dr P Kanagavel, Director and Division Head, National Institute of Wind Energy
7. Mr Sunil Jain, Partner, Essar capital (Former CEO & ED, Hero Future Energies)
8. Mr Saurabh Sanyal, Secretary General, PHD Chamber of Commerce
9. Mr Kacho Ahmad Khan, Chief Executive Officer, KREDA
10. Mr P. Sreenivasan, GM (HR), IREDA
11. Mr Subrahmanyam Pulipaka, CEO, National Solar Energy Federation of India
12. Mr Mukul Saxena, Head - Training Content & Technology, Tata Power
13. Dr P. Saxena, CEO, Skill Council for Green Jobs ----- Member Secretary

## Also present:

14. Mr Arpit Sharma, COO – Assessment and Assurance, SCGJ
15. Dr (Mrs.) P. Dhamija, Advisor – Biomass and Sustainable Livelihoods, SCGJ
16. Ms Sangeeta Patra, Vice President – Marketing and Partnerships, SCGJ
17. Mr Deepak Raj, Vice President – Standards and Research, SCGJ
18. Mr Pushpinder Tiwari, Partner, VTDC

## The Meeting commenced its proceedings with the approval of the Chairman.

Welcome and opening remarks by the Chairman

- Mr. Sameer Gupta, Chairman and Managing Director, Jakson Group and Chairman SCGJ welcomed members and invitees to the 15th Governing Council meeting which was held virtually. He also welcomed Mr. Mohan Reddy, Head, Governance NSDC as a special invitee. He welcomed Mr. Mr. Subrahmanyam Pulipaka, CEO, National Solar Energy Federation of India to be the new GC member of SCGJ.
- The Chairman mentioned that now India's economy is getting back on track and poised to rebound sharply. He mentioned that, we are going to be \$5 trillion economy, certainly by 2027 and that nothing is going to change despite the global challenges that we are in. Our country is appearing to be on track and as we read, the entire world talking about recession, India is still on the path of growth. There are geopolitical tensions, that we are reading about on a daily basis due to the war between Ukraine and Russia. The energy scenario seems to be bad in entire Europe and energy prices have shot through the roof and on top of it, there is also a residual impact is leading to higher inflation. Higher interest costs, supply chain issues, nationalism, deglobalization and of course, there are liquidity challenges as well. Having said this, growth for India will come from new services, new products, and of course, new markets.
- The Chairman mentioned that there are five strong pillars of growth. As far as India is concerned, one, there is huge focus on infrastructure, be it electricity, water road, ports airports, hospitals, warehouses, data centers. Hon'ble Prime Minister has announced national logistic policy. There is huge focus on infra, as far as India is concerned which is going to drive growth. There is clear shift towards renewable energy as we all know, and energy security for the country. Decarbonization and net zero targets, supply chains are moving away from China. That is a reality, there is a focus on Make in India, and many innovative schemes like PLI etc. have been launched to leverage this opportunity. I think it is a golden opportunity for our country. IT and huge data centers are coming in India, which is again going towards growth and more than 10,000 start-ups are expected to come in India over next three to five years.



# Minutes of 15<sup>th</sup> Governing Council Meeting

4. So, I think these are the five strong pillars for our country. Coming to energy specifically, clearly there is no alternative, but to shift towards renewables. I think if any country that would not take greening agenda seriously will be left behind and that is a realization by leaders across the world. India is focused and ready for the adoption of hydrogen and ammonia increases. We as a country aim to be net exporter of energy from net importer, what we are today. Energy landscape is going to change not only in India, but globally and this offers a huge opportunity for us. Scaling will be the key to unleash this opportunity in absence of right skill sustainable growth will be a challenge. We need to have workforce with skill to handle renewable designing, renewable manufacturing, renewable installation, O&M etc.
5. India has a demographic advantage as we all know and 20% of the global population approximately is sitting in our country. We have the potential of becoming skill capital of the world. We as Skill Council for Green Jobs have taken many initiatives in the skilling sector, which shall be shared by our CEO, Dr. Saxena shortly. I would like to compliment the good work done by him and his entire team.
6. Mr. Chairman introduced Mr. Arpit Sharma, the new COO of SCGJ, to governing council member. He mentioned that Mr. Arpit Sharma has been for Skill Council for Green Jobs since many years. We interviewed more than 10 people from relevant sector from all over the country and we found Mr. Arpit to be most suitable for this position of COO for this council. I am pretty convinced that we could not have got a better candidate. Once again hearty congratulate him and our best wishes to Mr Arpit Sharma.
7. Mr Arpit Sharma, Chief Operating Officer of Skill Council for Green Jobs thanked the Chairman and members of Governing Council for giving him this opportunity. He mentioned that It is a great responsibility which has been entrusted on him. He will try his level best and will ensure that he takes the council to the newer heights with his work hard and with all his sincerity. He thanked everyone and the Chairman. Dr. P Kanagavel - Director & Division Head, National Institute of Wind Energy congratulated to Mr Arpit to be selected as COO.

## Chairman started with the formal agenda of the meeting.

### Agenda Item 15.01

To confirm Minutes of the Fourteenth Governing Council Meeting of SCGJ held on 21st February,2022

**15.01.01** It was informed that the minutes of the Fourteenth Governing Council of SCGJ held 21st February,2022 were circulated to all members. No comments were received from the Members. GC was requested to confirm the minutes.

**15.01.02** The Minutes of the Fourteenth Governing Council Meeting of SCGJ held on 21st February,2022 were noted and confirmed.

### Agenda Item 15.02

Action Taken Report on the decisions of Fourteenth GC meeting

**15.02.01** Action Taken report was presented by CEO, SCGJ.

**15.02.02** Informing about action taken on item 14.08.19, CEO mentioned that it was decided that the GC members would have a tenure of 3 years with one year of extension and one year of cooling period before a re-elect. The principle of 33% turnaround per year may be adopted for the purpose of maintaining continuity. As action taken, the list of GC members was reviewed and rationalized keeping in view the decision of tenure and 33% turnaround per year.

**15.02.03** Mr. Mohan Reddy, NSDC observed that the tenure of the GC members three years is fine, but as for the MSDE guidelines, re- election can only happen after one term of cooling period, which is 3 years.



# Minutes of 15<sup>th</sup> Governing Council Meeting

**15.02.04** Mr. Sameer Gupta mentioned that GC had detailed discussion on the subject but he further invited views of other members. Mr. Sunil Jain stated that re-election is a very good practice, because sometime you may not get the right type of members and you may be short of people. Mr Saurabh Sanyal - Secretary General, PHD Chamber of Commerce & Industry endorsed this point and he mentioned that it is very difficult to have a cooling period of three years and then again, do the re-election. It became very difficult in such Governing Councils. So, it is better to have re-elections immediately. The GC had decided that at the most we will have one year of cooling period. Dr. P Kanagavel - Director & Division Head, National Institute of Wind Energy, reiterated that after deliberations in the last meeting, it was decided that the cooling period will be 1 year.

15.02.04 Mr. Chairman mentioned that as a council, we feel that one year is enough and they should be eligible for re-election because the concerns, what we were discussing last time, also the sense of continuity to the good work being done should not get eroded in the process. It was the concern which came up and not that we have not discussed. We are a small group of just 20-21 odd members. But to your point, I think we are trying to be very objective driven and that is why there are induction of new members. So, I think, as it starts turning over years, we will see that every year, new members are getting added and some people are going away from GC members. So that will ensure that the objective, what is there in mind of NSDC is get met.

**15.02.05** Mr. Mohan Reddy mentioned that these guidelines have come from MSDE so I mean, I will not be able to comment.

15.02.05 Mr. Sameer Gupta concluded that Mr. Mohan's point is taken. SCGJ will ensure that the objective behind the guidelines is met. We fully appreciate the objective and we will ensure that we take every possible step to be very objective driven for that. We don't lose on the steam on the good work being done by the council at the same time. Yes, it needs to be refreshed, we got to have new members, there are going to be new thoughts, there are going to be new ideas, so I think that is the way we would go.

15.02.02 The council noted action taken / present position on the decisions taken in the Fourteenth Governing Council meeting and approved the action taken.

## Agenda Item 15.03

To review and approve the Statutory Compliance report.

**15.03.01** It was reported that all statutory requirements are consistently followed. Further, SCGJ has been filing the returns and have no defaults. SCGJ has got certificate for minimum deduction of TDS from Income tax department, as skill councils are exempted.

**15.03.02** The GC reviewed and approved the Statutory Compliance report of SCGJ.

## Agenda Item 15.04

Performance during the year 2022

**15.04.01** Dr. Saxena CEO, SCGJ gave an over view of the activities during the year post last GC meeting in February, 2022. He mentioned that one of the most important achievements in last six months is that SCGJ has been formally recognized as an "Awarding Body" by the National Council for Vocational Education and Training (NCVET) on 31st May, 2022.

**15.04.02 Skill Gap Studies:** A New Skill Gap Study has been undertaken on Solid waste management in 4 metro cities. Study on 'India's Expanding Clean Energy Workforce: Opportunities in the Solar and Wind Energy Sectors' was released in Jan 2022. The report provides updated data on jobs created through India's on-grid solar and wind energy sectors with an updated findings and recommendations geared toward achieving India's goal of 500 GW of non-fossil fuel electricity generation capacity by 2030. SCGJ participated in data collection survey under study focused on the Indian market, policy & regulatory regime, technological options, business models and feedstock availability & supply chain for Biogas sector in India. JP Morgan has sanctioned an in-depth study to map the green jobs landscape in India, This 6-month study is collecting inputs from existing literature, existing public/private datasets and conversations with experts, stakeholders across the skilling value chain. SCGJ is implementing the project in consortium with Sattva Consulting.



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**15.04.03 CSR and Consultancy Projects:** SCGJ has received CSR Project funded by SBI Card on Design, supply, erection, and commissioning of 120 kWp Grid tied Solar PV plants at government hospitals in Delhi. SCGJ installed 120 kWp grid tied solar power plant installed on Pt. Madan Mohan Malviya Hospital, Malviya Nagar, Delhi. Further, SBI Cards have recently sanctioned one more project for Design, supply, erection and commissioning of 450 kWp Grid tied Solar PV plant in Civil Hospital, Gurugram (150 kWp) and Government College for Girls, Sector 14(300 kWp) in Gurugram, Haryana.

Most recently, the World Bank has awarded a project titled “Researching solutions for Preparing Schools for Vocational Education in Solar Energy” to the Skill Council for Green Jobs (SCGJ). The project aims to undertake research, identify possible solutions and recommend possible innovations to strengthen the design and delivery of vocational skills in Renewable energy (with a focus on Solar Energy), for children aged 15 -18 years (Class 9-12) across Government Schools in Gujarat.

UNDP has recently awarded Skill Council for Green Jobs (SCGJ) a project titled ‘Development of 4 nos. of qualification packs and Skilling 1000 persons on Green Electric Vehicle Charging Infrastructure and Solar Cold Storage’. The project aims to train and certify 1000 trainees across 5 qualifications including on PV Installer (Suryamitra) along with Basic and Advanced job role(s) in Solar cold storage and Solar based EV charging infrastructure.

**15.04.04 Entrepreneurship program:** SCGJ is developing an Entrepreneurship program around all its major qualifications including solar energy, solar power projects, solar water pumping, waste management etc. To start this effort, a two days physical training on Solar Rooftop Entrepreneurship was organized by SCGJ on March 7-8 2022 at its in house training facility in New Delhi. A similar 2 days physical training in coordination with Institute of Solar Power Technologies and Vocational Training (ISPTVT) was organised on 26-27 March 2022 at Central Power Training Institute, Hyderabad. The training event was organized through the support of Climate Policy Initiative.

**15.04.05 Training for ISA Member Countries:** Skill council for Green Jobs in collaboration with International Solar Alliance delivered the series of Online Training program on various topics for ISA Member Countries. During the period, over 600 candidates has been Trained for participants from more than 30 different countries participated in this training program. The Training was delivered on the following Topics:

- Scaling up of Solar Rooftop Project
- Solar PV Mini Grid implementation Program
- Online Training Program for Bankers of ISA member Countries
- Scaling Solar Applications for Agriculture Use (Solar PV Water Pumping Training)

**15.04.06 World Skill 2022:** Considering that Renewable Energy has been introduced for the first time in World Skills, our Skill Council has taken a unique initiative named “Foundation Programme on Renewable Energy for India Skills 2022” to train and prepare interested registered candidates for India Skills 2021 and World Skills 2022 under the guidance of our World Skills experts and RE master trainers. After organizing regional competitions in Punjab and Andhra Pradesh, National Skill Competition was organized in Delhi on Renewable Energy and Water technology. 5 medal holder candidates from National Competition in both sectors are now being trained to participate in the World Skills 2022.

World Skills Selection Tests Felicitation Ceremony for Renewable Energy

Skill Council for Green Jobs organized a felicitation ceremony to award students who would be representing India at the World Skills in renewable energy skill. Smt. Renuprava Nayak, Additional Secretary, Odisha Skill Development Authority and Shri Sanjib Kumar Rout, President, C. V. Raman Global University Odisha graced the occasion as chief guest. Distinguished members from Industry, Academia and World Skills International experts were also present at the occasion. Five finalists of India Skills 2021 were trained for last 6 months and a series of 3 selection tests were conducted from April – June 2022 to select one student who would represent India at the World Skills.

**15.04.07 SCGJ Job Portal ([https://www.scgjazgar.in/.](https://www.scgjazgar.in/))** SCGJ got the job portal developed and has been made fully functional. SCGJ Job Portal is a technology initiative by Skill Council for Green Jobs to seamlessly connect employers with skilled candidates in the Green Energy Sector.



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**15.04.08 Azadi Ka Amrit Mohotsav:** SCGJ has been celebrating 'Azadi ka Amrit Mahotsav' by conducting a series of 75 webinars by eminent Speaker in diverse field/sectors so to enhance knowledge and learning and bring forth various development and innovation in Renewable Energy (RE) and waste management. So far, 42 lectures have been organized on different topics starting from September, 2021.

Azadi Ka Amrut Mahotsav – World on Wheel (WoW)

SCGJ is combining efforts with Madhya Pradesh State Open School Education Board (MOSOSEB) for the aforesaid journey to celebrate the "Azadi ka Amrit Mahotsav" The purpose is to first "Involve the Guru" in the state's EFA schools in the 53 districts, so that they first become aware of what is in store for them and the students to expand their knowledge and be skill worthy as "Hunar hai to kadar hai". So far, 52 districts have been covered out of the 53 districts, impacting 1380 teachers and principals.

**15.04.09 Membership of SCGJ and MOUs with Industry:** One of the most important activities undertaken during this period was to broaden the industry base of SCGJ and develop industry associates. Over 600 industry, mainly MSME were contacted and informed about the activities of SCGJ. Industries added this year to our Membership are 26 in number. SCGJ has so far signed MoUs / LoAs with 56 industry / organizations with a view to cooperate in its activities and also help in achieving placement of SCGJ certified candidates.

**15.04.10** 12 new qualifications including in wind energy (6), small hydro power (1), compressed biogas (4) and solar entrepreneurship (1) have been approved in NSQC. With this, SCGJ has 44 NSQC approved qualifications. SCGJ has completed the RPL Trainings of more than 3500 sanitation workers supported by NSKFDC across the country It has conducted Training of Trainer and TOA program for both Solar and Waste Management Domain. SCGJ has conducted assessment and certification in 7 State Missions.

**15.04.11** Mr. Sameer Gupta, Chairman mentioned that it is evidently a lot of interesting projects have been taken and certainly good to see the focus on impactful projects as SCGJ CSR initiative. Skill Council for Green Jobs have done a commendable work in last six months to one year.

The Governing Council noted the progress made by SCGJ.

## Agenda Item 15.05

Draft MoA and AoA for proposed conversion of SCGJ to Section 8 company

**15.05.01** CEO recollected that as part of Agenda Item No. 14.08 of the 14th Meeting of the Governing Council held on 21st February, 2022, following was resolved unanimously by the members of Governing Council:

"It was resolved in the Governing Council that SCGJ, presently a registered society may be converted to Section 8 company" CEO may initiate the action of this conversion and MOA and RR of SCGJ may be suitably modified as per Section 8 company requirements. It was also decided that a CA may be appointed to undertake this work.

**15.05.02** Accordingly, action was initiated and SCGJ has hired services of M/s Rajan Malik & Co, Chartered Accountants. They have prepared the MOA and AA of the proposed Section 8 company. Since it is proposed to convert the existing society to section 8 company, the new SCGJ section 8 company has to be a mirror image of the existing society in terms of MOA, AOA, GC/ Board members and members of the new Company.

- I. In view of this, it is proposed that the present GC members of SCGJ (List at Annexure III of agenda papers will be the Board members of the new Section 8 Company.
- II. The tenure of Board Members will be of 3 years from the date of formation of the company. The number of the Board members will be restricted to 21 including representative of MSDE, MNRE and NSDC.



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- III. The Board members will not have any financial share in the new company. The funds, asset and liabilities of the society will be transferred to the new company.
- IV. All the members of SCGJ society will be asked if they would like to become members of General Body of the new company. The number of members of the company will be restricted to a maximum of 200 as defined in the AA.

**15.05.03** For the purpose of Section VIII and Section XII) of the MOA (Page33 &34 of agenda papers), to register the company and as Guarantors, names of following GC Industry members are proposed:

- Mr. Sameer Gupta (Present Chairman of SCGJ)
- Mr. K.Krishan (immediate past chairman)
- Mr. O.P.Tanaja ( Present Treasurer)
- Mr Sunil jain (Industry Member)
- Mr Abhinav Mahajan (Industry Member)

Each member, undertakes to contribute to the assets of the company in the event of its being wound up while he/it is a member or within one year afterwards, for payment of the debts or liabilities of the company contracted before he/it ceases to be a member and of the costs, charges and expenses of winding up, and for adjustment of the rights of the contributories among themselves, such amount as may be required not exceeding an amount of Rs. 10,000/-

The above Industry members would also sign the application as desirous persons of being formed into a company not for profit, in pursuance of this Memorandum of Association:

**The Governing Council approved the proposal mentioned above and the Draft MoA and AoA of SCGJ. (Annexure II Page 28-41 of the Agenda papers).**

## Agenda Item 15.06

Implementation of Gratuity scheme for SCGJ Employs

**15.06.01** CEO, SCGJ mentioned that Skill Council for Green Jobs is proposing to implement the Gratuity scheme for all its permanent employees. SCGJ has been discussing with a few fund Managers. After discussions LIC has been shortlisted. LIC has a well-defined structural system in managing the Gratuity fund for several key Government and Private organizations. The GC was requested to approve starting the gratuity scheme for SCGJ Employs with LIC .

Mr. Sunil Jain, Partner, Essar Capital Advisory India Pvt. Ltd mentioned that LIC does this for everybody, even for companies, large corporate they are the best. Only thing is that at terms of the gratuity agreement that LIC manages kindly share with GC.

15.06.02 The proposal was approved by GC to Implementation of Gratuity scheme for SCGJ Employs with LIC.

## Agenda Item 15.07

Opening SCGJ account in SBI for the purpose of Opening FCRA account

**15.07.01** It was informed to the GC that the FCRA requires every person or NGO wishing to receive foreign donations to be registered under the Act, to open a bank account for the receipt of the foreign funds in State Bank of India, Delhi, and to utilise those funds only for the purpose for which they have been received and as stipulated in the Act. The amended FCRA has made it mandatory for all NGOs receiving foreign aid to open an account in State Bank of India's New Delhi branch.

The GC was requested to approve opening an SCGJ account in SBI exclusively for FCRA purpose. The bank account will be operated by any two of CEO, COO and Treasurer of SCGJ



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**15.07.02** The above proposal was approved by the GC and resolved that:

The SCGJ may open an SCGJ account in SBI exclusively for FCRA purpose. The bank account will be operated by any two of CEO, COO and Treasurer of SCGJ

## Agenda Item 15.09

Any other item raised by GC Member  
NIL

## Comments from GC Members

**15.09.01** Mr Subrahmanyam Pulipaka, Chief Executive Officer, National Solar Energy Federation of India mentioned that its indeed a great honour and privilege to be part of the governing council and I am looking forward to contributing meaningfully and as Mr. Gupta mentioned in the beginning of his chair, remarks that we have already done as a country a lot. We are going through a very steady and sustainable trajectory, especially when it comes to solar. The skilling part becomes more important than ever before. I meet Dr. Saxena and Mr. Arpit their office last week and we have outlined 3 to 4 areas where Skill Council for Green Jobs can work especially pertaining to skilling professionals and young graduates and also the midcareer professionals and engineers and women in energy. We will have more as we bring the solar industry part of the equation with us.

We are looking forward to working very closely with SCGJ and develop specific courses that are importance to the sector, not just for vocational training, but also for professional training. We spoke about Agri PV were SCGJ was also part of our initiative and also now floating PV is also something that we can think of and Skill Council will be an integral part of it. We are also seeing an increasing trend on the shortage of skill labour, not just in our country, but across the globe, especially in Europe and USA. So, we also trying to see if any initiatives can be put forward. There can be no better body than SCGJ to lead that initiative. He thanked all for inviting him and assured his best to contribute meaningfully create an impact for Skill Council for Green Jobs.

The Chairman thanked Mr. Subrahmanyam and mentioned that he is very confident that his experience will be a big contribution to success and guidance of Skill Council for Green Jobs.

**15.09.02** Mr. Sunil Jain, Essar Capital Advisory mentioned that the country is now on the cusp of starting a green hydrogen revolution. He believes that in next four years we could see a large number of green hydrogens, green ammonia projects coming on stream. I am not saying that we do it immediately that we have too much on a hand, but we should start looking at this area also as one of the areas for skilling people.

The chairman concurred this observation and mentioned that this is something we have discussed in the past also. In fact, this is pretty much there on the agenda, as you rightly said, not immediately but, it will take three to four years. My belief is that in the coming years, we will see some pilot projects coming in of smaller capacities. But I think by 2025, we will have large scale projects as well.

**15.09.03** Mr Saurabh Sanyal - Secretary General, PHD Chamber of Commerce & Industry , informed the members that PHD chamber has been the pioneer in the green hydrogen sector. In 2021 on 3rd September, we had the first international climate summit at Hotel Taj Palace, where we had more than 35,000 people and the subject was green hydrogen. Our Chairman of the Sector Council, Dr. JP Gupta spearheading this council held in Bergen city, Norway, where we held the second international climate summit in which we had more than 25,000 people attending it from various hydrogen producing countries as well as from India.

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We had all the stakeholders coming out with us as a delegation to Bergen city (Norway) and we had a very successful hydrogen summit there. In this, we have also established a centre of excellence in IIT Delhi as well as in the Shriram Institute where our joint MD, Mr. Alok Sriram spearheading this, who is also the MD of the Sriram Research Centre and he is spearheading green hydrogen. It is a very massive plan for scaling people, creating verticals for the green hydrogen as far as CO<sub>2</sub>, capture transmission and transportation is concern. We are already carrying out detailed analysis and carrying out a centre of excellence and we &will be starting the consultancy services for green hydrogen in India. We have already established a portal, the PHDCCI portal for green hydrogen, where large number of companies have already registered. This is one of the major steps being taken by PHDCCI this year for the next decade or so, where we want to get into the green hydrogen and get all the companies, stakeholders together. Because as of now the cost of production of per kg of hydrogen is more than \$20 and which we want to bring it down as per the aspirations of the government of India towards \$1. So, a large number of research and development will be taking place in India under the PHD chamber at IIT Delhi, where we are setting up a think tank also under our session. I just wanted to apprise on those lines, so we can always join hands together for scaling as well as for developing this project.

The Chairman thanked Mr Sanyal for sharing what all PHD is doing. He mentioned that within this team and within our members with the kind of experience we have, we can make a right committee of people so that we know what we can expect from the skilling side of hydrogen, which is the new subject for all of us.

**15.09.04** Dr. Vasanta V Thakur, Director MNRE mentioned that in line with the recent guidelines, the skill certificates should be available on DG locker. So, SCGJ should take up the process of uploading the certificates under the Suryamitra program and also to take up the uploading of the certificates under upcoming programs like Vayumitra and also the Urjamitra program in small hydro. So, we can also explore the possibility to upload the past one also under suryamitra with the co-operation with NISE.

Chairman thanked the members for their comments and suggestions.

**The meeting ended with vote of thanks to the chair.**



# Minutes of 16<sup>th</sup> Governing Council Meeting

The Sixteenth Meeting of the Governing Council of Skill Council for Green Jobs was held at 11.30 am on 17th February, 2023, under the Chairmanship of Mr. Sameer Gupta, Chairman and Managing Director, Jakson Group, through video conferencing.

## Following GC Members were present in the meeting:

1. Mr. Sameer Gupta, CMD, Jakson Group - in Chair
2. Dr Vasanta.V Thakur, Director, Ministry of New and Renewable Energy
3. Mr Anand Mohan Jha, Senior Vice President, NSDC
4. Mr K Krishan, Chairman, CVC Biorefineries Pvt Ltd and Former Chairman, SCGJ
5. Mr O P Taneja, Advisor, Indian Wind Turbine Manufacturers Association
6. Mr Sunil Jain, Partner, Essar capital (Former CEO & ED, Hero Future Energies)
7. Prof Arun Kumar, HRED, IIT Roorkee
8. Mr. Jayvadan Mistry, Chief - Tata Power Skill Development Institute
9. Dr P Kanagavel, Director and Division Head, National Institute of Wind Energy
10. Mr Saurabh Sanyal, Secretary General, PHD Chamber of Commerce
11. Ms. Jyoti Mukul, Principal - Energy & Infrastructure, CII
12. Mr. Subrahmanyam Pulipaka, CEO, National Solar Energy Federation of India
13. Dr P. Saxena, CEO, Skill Council for Green Jobs ----- Member Secretary

## Also present:

13. Mr Arpit Sharma, COO, SCGJ
14. Dr (Mrs.) P. Dhamija, Advisor – Biomass and Sustainable Livelihoods, SCGJ
15. Ms Sangeeta Patra, Vice President – Marketing and Partnerships, SCGJ
16. Mr Deepak Rai, Vice President – Standards and Research, SCGJ

## The Meeting commenced its proceedings with the approval of the Chairman.

Welcome and opening remarks by the Chairman

1. Mr. Sameer Gupta, Chairman and Managing Director, Jakson Group and Chairman SCGJ welcomed members and invitees to the 16th Governing Council meeting which was held virtually. He welcomed Mr. Jayvadan Mistry, Chief - Tata Power Skill Development Institute, and Ms. Jyoti Mukul, Principal - Energy & Infrastructure, CII to the meeting. He also welcomed Mr. Anand Mohan Jha Senior Vice President, SSC Governance NSDC as NSDC representative.
2. The Chairman mentioned that India's economy is consistently growing and with the new initiatives of the Government and the renewable energy sector is also moving at the same pace. We are fifth largest economy in the world and the way things are, we are set to become third largest in the next four to five years. It is matter of privilege and honour for India to host G-20 summit and the theme again is very apt, "One Earth · One Family · One Future". During the COVID times in particular, under the dynamic leadership of our hon`ble Prime Minister, India had the foresight to figure out opportunities within the challenges which entire world was facing. I think we have worked on strategies for creating a stronger, futuristic and a sustainable country.
3. Over the last few years, the Government had laser sharp focus on execution of the strategies which is the key to success. India continues to build a strong physical, social as well as digital infrastructure and this is one of the key focus areas of the government. The recent budget was very holistic as it hinges around inclusive growth, providing quality of life for every citizen and sustainability. It has been articulated beautifully, where seven priorities have been set up and this will position India as a very strong nation for times to come.



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4. There is significant focus on green economy which will result in India leapfrogging its position in renewable energy sector. With added focus on transmission, storage and green hydrogen, which was very evident in the budget. We can say that government is committed to meet or exceed its renewable target of 2030. Energy transition is clearly a priority for our country, which has taken national importance for reasons of both energy security and carbon neutrality. Green hydrogen mission targets production capacity of green hydrogen to touch at least 5 MMT per annum by 2030, which will significantly facilitate transition of India into low carbon economy.
5. Recently, 5.9 million tons of lithium deposits have been discovered in Jammu and Kashmir. I believe this is a very exciting news for the renewable energy sector. This could potentially reduce our country's dependence on imports and further accelerate the shift towards clean energy. This will put India at number two position in the World for lithium reserves. This discovery will help not only India's automobile sector, but will also open up opportunities in other sectors like aerospace, defence and energy storage. It's a very positive development which will accelerate our transition towards cleaner, sustainable and self-reliant. Future green growth is the priority and clearly India is firmly moving towards net zero emission by 2070, which will assure green industrial and green economic revolution.
6. The initiative of creating green jobs is a crucial step forward in the country's mission to become a greener and sustainable nation. To address these challenges, I think contribution of Skill Council for Green Jobs needs to be immense, a lot more than what we have been ever doing since. Without having green skills, India cannot meet the demand of green jobs. Skill Council for Green Jobs, over the last few years have taken many initiatives and will continue to do so.

**After the opening remarks, the Chairman started with the formal agenda of the meeting.**

## **Agenda Item 16.01**

To confirm Minutes of the Fifteenth Governing Council Meeting of SCGJ held on 19th September, 2022

**16.01.01** It was informed that the minutes of the Fifteenth Governing Council of SCGJ held 19th September, 2022 were circulated to all members. No comments were received from the Members. GC was requested to confirm the minutes.

**16.01.02** The Minutes of the Fifteenth Governing Council Meeting of SCGJ held on 19th September, 2022 were noted and confirmed.

## **Agenda Item 16.02**

### **Action Taken Report on the decisions of Fifteenth GC meeting**

**16.02.01** Action Taken report was presented by CEO, SCGJ.

**16.02.02.** Informing about action taken on item 15.09.02, CEO mentioned that SCGJ has joined hands with USAID in the "South Asia Regional Energy Partnership" (SAREP) initiative to undertake the work of identifying skilling requirements on technologies like green hydrogen, emerging Solar PV technologies etc. SCGJ has signed a MOU with USAID for its active contribution in the SAREP Program.

**16.02.03** After the announcement of the National Green Hydrogen Mission on 4th January, 2023, SCGJ has developed two qualifications on Green Hydrogen namely (i) Green Hydrogen Plant Technician and (ii) Green Hydrogen Plant Entrepreneur. These qualifications have been approved by NCVET in the NSQC meeting held on 31st January, 2023.

**16.02.04** A training program on Techno- Economic Considerations for the design of Green Hydrogen Projects was organized on 3rd February, 2023 jointly by SCGJ and USAID in New Delhi. The program was attended by 50 participants from 30 organizations like NTPC, PFC and industry active in green hydrogen.

**16.02.05** The council noted action taken / present position on the decisions taken in the Fifteenth Governing Council meeting and approved the action taken.



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## Agenda Item 16.03

### To review and approve the Statutory Compliance report.

**16.03.01** It was reported that all statutory requirements are consistently followed. Further, SCGJ has been filing the returns and have no defaults. SCGJ has got certificate for minimum deduction of TDS from Income tax department, as skill councils are exempted.

**16.03.02** The GC reviewed and approved the Statutory Compliance report of SCGJ.

## Agenda Item 16.04

### Performance during the year 2022-23

**16.04.01** Dr. Saxena CEO, SCGJ gave an over view of the activities during the year 2022-23. He mentioned that Skill Council for Green Jobs has completed 7 years of its operations. Apart from skill trainings to over 5.30 lakh candidates through its training partners, SCGJ has been focusing on the quality of training and improving training material, by taking help from its Industry partners and also from the bilateral and multilateral organizations. Upgrading knowledge and skills of its certified trainers by international experts has been a unique activity of SCGJ in past few years . It has joined hands with GIZ, UNDP, FCDO (former DFID) to strengthen its quality of training. SCGJ has expanded its outreach by participating in international activities and tenders for skilling in renewable energy sector in India.

**16.04.02** SCGJ is now digitizing its activities. It has an online training aggregation platform so that its training partners can do market mode trainings in an online mode. SCGJ has now its own job portal. The SCGJ Job Portal is a technology initiative by Skill Council for Green Jobs to seamlessly connect employers with skilled candidates in the Green Energy Sector. SCGJ is now working towards its inhouse 'Green India Portal' to maintain its all activities including training and certification apart from using Digi locker for storing data of certified candidates. Strengthening its training material and making these available in local languages is a continued effort of SCGJ. SCGJ is gradually moving towards online trainings on NSQF aligned qualifications in market mode and It is proposed to develop a virtual "Renewable Energy academy of Experts".

**16.04.03** Hon`ble Mr. Francesco La Camera, Director General, International Renewable Energy Agency (IRENA) and his team visited SCGJ office on 25th April, 2022 to discuss and explore future collaborations with SCGJ. SCGJ has been formally recognized as an "Awarding Body" by the National Council for Vocational Education and Training (NCVET) on 31st May, 2022. SCGJ continued its efforts in organizing the series of 75 webinars on the occasion of "Azadi Ka Amrit Mahotsav" covering various topics in Renewable Energy, Sustainable Development, waste management, waste to fuel etc. So far 64 webinars have been organized.

**16.04.04** SCGJ participates in WorldSkills competition for Water technology and Renewable Energy trades. It got India's first ever Gold medal at a WorldSkills Competition in the year 2019. During the year 2022, It has again secured silver medal in Water Technology in the World Skills special edition 2022 held in Germany for Water Technology and First time participated in World Skills special edition 2022 for Renewable Energy, held in Kyoto, Japan. SCGJ was invited by the World Bank to the 3rd WePOWER Conference during December 6th-8th December,2022 in Bangkok, Thailand to share the Indian experience of skilling and jobs across the Green jobs segment.

**16.04.05** Skill Gap Studies:

**Solid Waste Management in Metro Cities:** Skill Council for Green Jobs commissioned a study to understand the segment wise skilling requirement and supply and to identify the potential gaps in solid waste management. The study was conducted across 4 metropolitan cities viz. Delhi, Mumbai, Chennai and Kolkata. Kantar Public was entrusted with the responsibility of conducting this study. The study was completed in April, 2022.



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**Landscape of Green Jobs in India supported by JP Morgan Chase:** SCGJ in collaboration with Sattva Consulting with the support from JP Morgan Chase is implementing a study on the landscape of Green Jobs. This study aims to understand the potential of Green Jobs and the corresponding skilling landscape across the country. With a focus on 6 key sectors including renewable energy, EV, Apparel, Green construction, Plastics and E waste management etc the study will highlight existing status and potential demand of green jobs in India. It is now proposed to include Green Hydrogen sector in the study.

**Assessments of biomass demand-supply value chain and entrepreneurship development for pellet production in selected clusters / districts:** SCGJ has undertaken a study through M/s Bio Trend Energy to assess biomass demand-supply value chain and scope of entrepreneurship development for pellet production. The study is conducting Skill gap study, prepare occupation map and identify probable job roles in collection and manufacturing of biomass pellet. The study will be completed by March, 2023.

**Green House Gas Accounting Guidelines:** SCGJ has given an assignment to M/s Net Zero Think, Bangalore to prepare greenhouse gas accounting guidelines for assessment of GHG accounting and the expected job roles involved in this sector. The Guidelines have been prepared and are now being used to develop qualifications for training and skill development on the subject of Green House Gas accounting.

**Skill Gap Study on Plastic Waste Management:** Skill Council for Green Jobs is supporting Indian Pollution Control Association (IPCA) for skill gap studies and identification of job roles for plastic waste management with the view to create training modules for entrepreneurship and livelihood generation. The report explains the spectrum of business opportunities that are offered by the plastic waste management sector.

**Jobs and skilling in domestic solar and wind energy sector – Report by SCGJ, CEEW and NRDC - February, 2023:** SCGJ in collaboration with Council on Energy, Environment and Water (CEEW) and Natural Resources Defense Council (NRDC), undertakes an annual study on jobs and skilling in domestic solar and wind energy sector. The study outlines skill gaps and estimates existing and potential jobs resulting from the advent of new and emerging clean energy technologies. The latest edition of the report builds on the earlier issue and provides an updated analysis on the number of direct jobs created from the solar and wind energy sectors in the financial year 2022 (FY22).

**16.04.06 CSR and Consultancy Projects:** Dr. Saxena mentioned that SCGJ has completed 8 major CSR projects so far and is now implementing following projects:

**CSR project from SBI Card :** SCGJ had received CSR Project funded by SBI Card on Design, supply, erection, and commissioning of 300 kWp Grid tied Solar PV plants at 2 government hospitals in Delhi. On successful completion of the first part of the project, SBI Cards have further sanctioned one more project of 450 kWp grid tied Solar PV plant in Civil Hospital, Gurugram (150 kWp) and Government College for Girls, Sector14 (300 kWp) in Gurugram, Haryana. These projects are now under implementation. SCGJ is also providing skilling and training for maintenance of the projects.

**The World Bank Project towards introducing Vocational Education in Renewable Energy in Schools:** The World Bank is currently supporting SCGJ in implementing a project which aims to identify and recommend possible innovations to strengthen the design and delivery of vocational skills in Renewable Energy (focus on solar energy), through structured research in schools for children aged 15 -18 years (Class 9-12) across Government Schools in Gujarat. This research will provide actionable recommendations on incorporating vocational skills in renewable energy which can facilitate school-to-work transition.

**UNDP Project on Green Electric Vehicle Charging Infrastructure and Solar Cold Storage:** UNDP has awarded to Skill Council for Green Jobs a project titled 'Development of 4 nos. of qualification packs and Skilling 1000 persons on Green Electric Vehicle Charging Infrastructure and Solar Cold Storage'. As part of this project 4 qualifications on advanced and basic qualification for both Solar cold storage and Solar EV charging infrastructure have been developed by SCGJ and approved by NCVET. The project aims to train and certify 1000 trainees across 5 qualifications on PV Installer (Suryamitra), Solar cold storage and Solar based EV charging infrastructure.



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**Climate Policy Initiative (CPI) Funded Entrepreneurship development:** Climate Policy Initiative (CPI) is currently supporting SCGJ in implementing 2 physical training batches on Solar Rooftop Entrepreneurship. This is an extension of the previous phase of the project where 53 candidates were trained as Solar Rooftop Entrepreneurs. In the current phase, 62 candidates have been trained and certified on “Solar Photovoltaic Entrepreneur” at Bhubaneswar, Odisha and New Delhi. This is a mixed job role with suitable focus on entrepreneurial opportunities across rooftop, ground mounted civil & electrical functions along with solar pumping business space.

**CSR Project from Redington Foundation:** Redington Foundation, a trust of Redington (India) Limited to implement various CSR activities towards the betterment of the society have sanctioned a CSR project to SCGJ entitled “Develop the skills of youth in Optimum design of Solar PV power plants” to improve their employability and entrepreneurship opportunities in the green energy sector. The project is to focus on 500 unemployed youth of Maharashtra and Karnataka and trained in the higher level of qualification with final aim of getting them job in the solar domain.

**16.04.07 Review and Development of Qualifications:** The GC was informed that at the beginning of the year, SCGJ had 44 approved qualifications (17 qualifications in Solar domain, 6 in Wind, 12 qualifications in Bio Energy, 6 in Waste Management, 2 in Sustainable Practices and 1 in Small Hydro). These qualifications were reviewed and revised qualifications have been submitted for approval of NCVET. During 2022-23, following 9 new qualifications have been developed and approved by NCVET relating to Solar EV Charging, Solar Cold storage, rain water harvesting, Green Hydrogen and Solar PV cell manufacturing Technician.

**16.04.08 Other major activities:**

**Entrepreneurship program:** SCGJ is now focusing on developing an Entrepreneurship program around all its major qualifications including solar energy, solar power projects, solar water pumping, waste management, Bio Energy ,Green Hydrogen etc. This activity is proposed to be enhanced during the year 2023-24 with about 10-12 Entrepreneurship development programs.

**Training for ISA Member Countries:** Skill council for Green Jobs in collaboration with International Solar Alliance delivered the series of Online Training program on various topics for ISA Member Countries. During the year, over 700 candidates has been Trained for participants from more than 30 different countries participated in this training program. The 6 training batches were conducted during 2022-23. The Training was delivered on Scaling Solar Applications for Agriculture Use (Solar PV Water Pumping Training).

**World Skill 2022:** Considering that Renewable Energy was introduced for the first time in World Skills, SCGJ had taken a unique initiative and organized “Foundation Programme on Renewable Energy for India Skills 2022” to train and prepare interested registered candidates for India Skills 2021 and World Skills 2022 under the guidance of our World Skills experts and RE master trainers. After organizing regional competitions in Punjab and Andhra Pradesh, National Skill Competition was organized in Delhi on Renewable Energy and Water technology. 5 medal holder candidates from National Competition in both sectors were trained to participate in the World Skills special edition 2022. Skill Council for Green Jobs organized a felicitation ceremony to award students who would be representing India at the World Skills in renewable energy trade.

Mr. Praveen Kumar Giri from CV Raman Global University, Odissa represented India in the Water Technology trade at WorldSkills Competition 2022 held in Stuttgart, Germany and secured Silver Medal. In the Renewable Energy trade, India was represented by Mr. Shivam Chaurivar from Lakshmi Narnia College of Technology, Bhopal. MP. The Competition was held in Kyoto, Japan from 15th -18th October, 2022.

**Azadi Ka Amrit Mohotsav:** SCGJ has been celebrating ‘Azadi ka Amrit Mahotsav’ by conducting a series of 75 webinars by eminent Speaker in diverse field/sectors so to enhance knowledge and learning and bring forth various development and innovation in Renewable Energy (RE) and waste management. So far, 64 lectures have been organized on different topics. During 2022-23, 42 webinars were organized.



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**One Day Workshop on Prevention of Hazardous Cleaning Sewers and Tanks:** SCGJ organizes One Day Workshop on Prevention of Hazardous Cleaning Sewers and Tanks, with the help of the NSKFDC and Municipal Corporation and other local bodies. During 2022-23, SCGJ has successfully completed 20 workshops in 6 States and in 19 Municipalities.

**Membership of SCGJ and MOUs with Industry:** One of the most important activities undertaken during this period was to broaden the industry base of SCGJ and develop industry associates. Over 650 industry, mainly MSME were contacted and informed about the activities of SCGJ. Industries added this year to our Membership are 26 in number. SCGJ has so far signed MoUs / LoAs with 69, industry / organizations, including 11 during 2022-23, with a view to cooperate in its activities and also help in achieving placement of SCGJ certified candidates.

## 16.04.09 Trainings and Assessments:

Dr. Saxena briefed the GC about the Short term and RPL trainings and certification conducted by SCGJ through its affiliated training partners and assessment agencies. It was informed that 283 candidates have been certified as trainers for all its sectors. SCGJ has empaneled 8 assessment agencies for carry out the future assessments and conducted Training of Assessor for 42 candidates. During the year, SCGJ has conducted assessment and certification in 8 State Missions. SCGJ has completed the RPL Trainings of more than 7634 sanitation workers supported by NSKFDC across the country.

During the Year SCGJ has provided training for 11,821 candidates through its affiliated training partners and certified 10,975 candidates. In cumulative terms, SCGJ, through its training partners, have trained 5.30 lakh candidates and certified 5.13 lakh candidates during last 7 years.

## 16.04.10 Comments from GC members:

**Mr. Sameer Gupta**, Chairman mentioned that it is evident that a lot of interesting projects have been taken and certainly good to see the focus on impactful projects as SCGJ CSR initiative. Skill Council for Green Jobs have done a commendable work in during 2022-23. The Chairman invited comments from the members:

**Prof Arun Kumar, HRED, IIT Roorkee**, complemented SCGJ for the new activities undertaken during 2022-23. Referring to the study undertaken on “Greenhouse gas accounting guidelines” and GHG emissions, he mentioned that this is an important area, not only nationally but also internationally, and not much information is available on the subject. He mentioned that this may require relatively expensive equipment and hand holding by the Government but it is very important and unfortunately remained neglected in our country. Taking the example of polluted water body with the river or lakes or sewage treatment plants and others, he mentioned that these require immediate action. It is nice that SCGJ has initiated this work. This work should be further extended and may be SCGJ will be the first institution to do it at a large scale.

**Mr K Krishan, Chairman, CVC Biorefineries Pvt Ltd and Former Chairman, SCGJ**, complemented the Chairman and SCGJ team for so much of on line work and moving to a digital way and initiating work on GHG accounting. He mentioned that a lot of pressure is now coming on corporates, for Business Responsibility & Sustainability Reporting (BRSR) and the ESG compliance and there will be a lot of skilling required and lot of skilling requirement in rural areas for the scope 3 emissions. Having a lot of the operations of SCGJ turned online, I think is a major step, which should lead to a lot of future growth.

**Mr. Sunil Jain, Partner, Essar capital**, complemented the work being done by SCGJ and the vision projected for the growth of the sector. He mentioned that this year onwards or may be early next year, India is going to come out with its own Carbon Trading Platform, which has already been approved by the Parliament. Carbon trading platform is directly linked with the renewables and is very important for our future activities. May be we can take help of energy efficiency arm GOI in this. He further mentioned that the green hydrogen is also picking up very fast and because carbon ticket trading will be required across all the green sectors whether it is EV, or green hydrogen, solar, wind, biomass. This would require a lot of certifications to be done to issue the green tickets. This is an area where we should develop our competency and try to do the training.



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**Mr Sameer Gupta, Chairman SCGJ**, mentioned that recently he was in UP attending “Invest UP” event where hon`ble Prime Minister addressed the industry. He was talking at length regarding focus of not only UP but all the states on skilling. So, I think there could be more opportunity for us to partner with States. Further, referring to the point mentioned by Mr. K.Krishan about ESG focus of various companies and many companies have already announced their net zero targets, individual targets, by say 2035, 2050., he mentioned that there also lies some opportunity for SCGJ to identify those companies and partner with them. We can have MOUs with these companies, if required.

The Chairman stated that many States are launching biofuel policy. The State of UP has come out with a wonderful biofuel policy for example, 150 ethanol plants have been announced, likewise over the last three months, a lot of focus is on bio CNG is going to be there in the country. Probable, the potential is to have 5000 plants within the country. These are two major upcoming areas. As I interact with people, Skills are not there, plans have been announced, MOU's have been signed, banks have approved loans also, but skill is not available at all. So, I think there is an opportunity for us to focus on these two areas as well.

**Mr. Anand Mohan Jha Senior VP, NSDC**, mentioned that when the Prime Minister announced the Green Hydrogen Mission on 4th January, 2023, MNED called NSDC and our Sector Skill Councils for a meeting. We were happy to know that SCGJ was working on the subject for past three years. They were able to get even the qualifications approved from NCVET. I would like to inform the GC members that Joint Secretary, MSDE is on record, appreciating SCGJ for the timely action Mr. Jha thanked the Chairman for his direction and SCGJ team for the good work for which the complements are coming from MSDE.

**Dr.Vasanta V Thakur, Scientist-E, HRD, MNRE**, mentioned that the Ministry of New and Renewable Energy appreciates the efforts made by SCGJ in the RE skilling in last 7 years, implementation of skilling programs and time to time taking out skilling reports. However, MNRE has following observations:

- (i) In a recent report on “India’s Expanding clean Energy workforce 2022 update, February 2023 ” by CEEW, NRDC and SCGJ, there seems to be some incorrectness in the statement mentioned on pg.no. 15 of the report under the heading “Training initiatives by SCGJ”. The statement reads as “SCGJ provides trainings with a focus on installation and O&M job roles across both rooftop and ground mounted solar projects (Suryamitra program), wind energy (Vayumitra Program), Solar water pumping (varunmitra Program) and the newly launched program on Small Hydro power (JAI urjamitra)”. It may be noted that these trainings are funded by MNRE and are implemented by NISE, NIWE and HRED, IIT Roorkee. As per Ministry’s understanding, the role of SCGJ in the above programmes is limited to assessment and certification of the trained candidates. Since the report is of national level which is also a source for international reports in the concerned area, the statement on pg.no.15 of the above report may be misleading.

Dr. Saxena, CEO informed that an e-mail on the subject has also been received this morning from Dr. Vasanta. He clarified the process adopted in reporting the number of trainings delivered by SCGJ affiliated training partners as per Skill India Portal. However, in view of the observation, a revised statement will be sent to MNRE for concurrence and would be suitably incorporated in the report.

- (ii) Dr. Vasanta mentioned that SCGJ, in the agenda papers mentioned in the TOT - 60 numbers for wind and 18 numbers for small hydro. She sought clarification if these numbers are same as funded by MNRE under the scheme. It was clarified that these are same as MNRE funded TOT and since SCGJ has assessed and certified these candidates, these are reflected in SCGJ activities also.

- (iii) Dr. Vasanta mentioned that the certificate issued for the candidates funded under MNRE funded schemes, should have MNRE logo as well. It was clarified that since the candidates as per Nationally approved qualifications, same certificate is issued to all the candidates irrespective from where the funding is received. Now on-wards, they will be receiving NCVET certificates.

SCGJ is completely working as per the national policy and the national certification process which has been given to us as part of government of India's effort towards skilling by Ministry of Skill Development and Entrepreneurship.



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Dr. Vasanta mentioned that since we are also providing some data to Ministry and PMO and to all the other Ministries, and if SCGJ / NSDC is also providing the same data, it may not be appropriate being government organizations and may not lead to duplications. Mr. Anand Mohan Jha of NSDC clarified that all the certifications have to be on Skill India portal and the MSDE or NSDC doesn't report the numbers of other Ministry to the PMO.

The Chairman, SCGJ mentioned that we have taken note of the suggestions. He suggested that if required necessary clarifications may be given to MNRE offline and whatever the guidance is received from them within the purview and the framework, we must do whatever modifications are needed to be done.

**Mr. Jayadan Mistry, Chief - Tata Power Skill Development Institute**, mentioned that this is his first meeting to this Governing Council of SCGJ. I'm heading the Tata Power Skill Development Institute. We have got 7 institute across the Pan India and almost on all institute we run the green Energy courses. We train almost 2500 people every year per annum and we have got a very aggressive target to reach 20,000 in next three to four years. I'm very much excited to be part of this journey and I saw the goal of SGJ by 2030. I'm looking forward to be the part of this SCGJ mission and will definitely contribute a lot for this goal 2030.

**Dr P Kanagavel, Director and Division Head, National Institute of Wind Energy**, briefly outlined the process of starting the trainings on wind energy under the MNRE funded Vayumitra Program. He mentioned that NIWE have issued an expression of interest to identify Training Partners . A committee was constituted and NIWE has identified 13 training centers. TOT of 60 candidates were conducted. These candidates were assessed and certified by SCGJ. These numbers have been reported by SCGJ as well. He suggested that since this program has been funded by MNRE and training was conducted by NIWE, this should be appropriately mentioned.

**Mr Subrahmanyam Pulipaka, Chief Executive Officer, National Solar Energy Federation of India**, informed the members that in November, 2022 hon`ble Finance Minister launched the SCGJ and NSEFI Joint Portal which is integrated with SCGJ job portal with NSEFI Portal where women engineers, women entrepreneurs can get listed and they can get hired by the companies who want to hire women. This is an important step and it received very good traction. He further informed that Germany has identified India as one of the potential countries where they can get trained professionals to cater to their growing demand of their solar installation. We have had a meeting between SSEFI, SCGJ and German Solar Association in December. They want 27,000 trained professionals in solar by the end of 2030 from outside of Germany. They are very impressed with the curriculum and the structure of SCGJ and they would like to add a top up course of German language.

We are happy to inform that this partnership of NSEFI, SCGJ and German Solar Association is moving forward. It is expected that this will be announced by the German Chancellor during the India visit proposed on 25th and 26th February, 2023. In March, there is a Berlin Energy Transition, where there may be tripartite agreement This is a huge testimony to not only India's growing cloud in energy leadership on the global scale, but also as a recognition to the work that SCCJ has done.

The suggestions made by the members and the performance of SCGJ during the year 2022-23 were noted.

## Agenda Item 16.05

Annual Accounts of SCGJ for the year 2022-23

**16.05.01** The status of accounts as on 31st January, 2023 was presented to members of the Governing Council.

**16.05.02** The Governing Council was informed about the proposed activities of SCGJ during the year 2023-24. A brief on each item of revenue and expenditure was given. About 100,000 assessment are expected be undertaken by the end of next year along with implementing some other key activities. During the year 2023-24, Rs. 800 lakhs are expected to be realized. Further Rs. 570 lakhs are estimated to be utilized as expenses across multiple activities including overheads, rents, courseware development, skill competition etc.



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**16.05.03** Mr. Sunil Jain mentioned now that we are going online and we are doing a lot of online training work and all, are we parallelly also upgrading our systems and software and doing any capital expenditure towards upgrading equipment and software etc. Since we are going digital there will be some expense on it. It is observed that expense is not appearing anywhere under expenses or have you not budgeted.

It was proposed that there should be a separate capital expenditure budget for this activity and be included in the budget of 2023-24.

16.05.03 The Governing Council noted the proposed activities and agreed to make additional provision for the digitation activity. With this, the GC approved the Budget for the Year 2023 -24, as proposed.

## Agenda Item 16.06

Nomination of Co-Chair of SCGJ for the 2023-24.

The GC members were informed that in the 14th Governing Council Meeting held on 21st February, 2022, against Agenda Item 14.08 discussing the "Matters relating to Governance of SCGJ" and the Tenure of SCGJ Chairman, the GC resolved as follows:

"The tenure of Chairman, SCGJ would be Three Years, one year as Co-Chair and two years as Chairperson. The current Chairman would continue for 3 years i.e up to February 2024. A co-chair / Chairman (designate) may be appointed in February, 2023 who can take over as Chair in February 2024. This practice may continue in future as well. This way an exposé of 3 years would be to all future Chairpersons, one year as co-chair and two years as Chair."

In view of the decision taken by The Governing Council, The GC may kindly deliberate on the name of Co-chair / Chairman (designate) of SCGJ for the year 2023-24.

The Chairman mentioned that since it is beginning of his third year, we certainly need a Co-chair. He proposed the name of Mr. Sunil Jain as Co-Chair of Skill Council of Jim Green Job for 2023-24. The name was seconded by Mr K. Krishan, past Chairman of SCGJ followed by Mr. O.P Tanaja, Treasurer SCGJ.

All the members of GC unanimously agreed and the Chairman mentioned that the entire Governing Council has got huge respect for Mr. Sunil Jain. His experience in renewable energy is commendable and he is confident that under the leadership of Mr Jain the Skill Council of Green Job will grow immensely in the years to come.

Mr. Sunil Jain accepted the position and mentioned that he is honoured to be designated as a Co-Chair. He will try to do my best, but very difficult to fill the big boots left by Mr. Krishnan and Mr. Sameer Gupta, who is going to continue to lead for some time. He will always take guidance from them and see what is in the best interest of this skill Council, how we can take it forward. Thank you so much for posing faith in me.

Following this, all the members of GC congratulated Mr. Jain.

Mr Sunil Jain, Partner, Essar capital was unanimously elected as co-chair of SCGJ for the year 2023-24 by the GC members.

## Agenda Item 16.07

Any other item raised by GC Member

Mr Anand Mohan Jha, NSDC mentioned that the process of converting SCGJ from Society to Section 8 company may be expedited and the tenure of GC Chairman and members may be as per the Ministry's guidelines. He suggested that SCGJ may consider constituting Advisory Council to get more members.



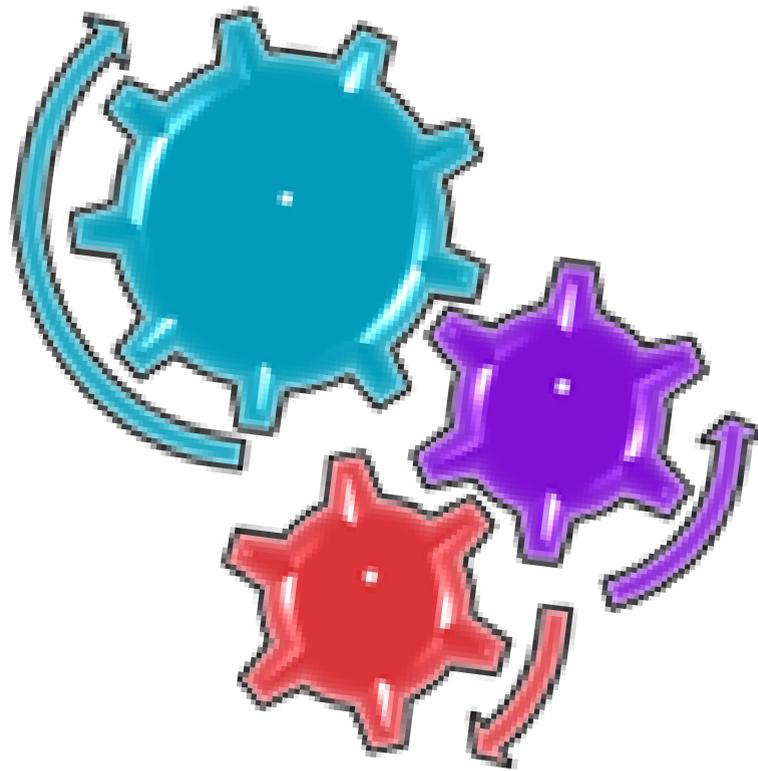
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It was informed that SCGJ is in the process of conversion to Section 8 company. This was approved by GC and AGM in its last meeting. MOA and AA have been formulated and as per new guidelines, a public notice have also been issued. It has come in news papers about 15 days back. SCGJ will apply to MCA as soon as the site is functional. Hopefully the process will be completed by April, 2023.

Chairman thanked the members for their comments and suggestions.

Towards the end of the meeting, Mr. Arpit Sharma, COO SCGJ expressed his vote of thanks. He thanked Mr Sameer Gupta, Mr K. Krishan, Mr Sunil Jain and Dr. Saxena and all the Governing Council members for guiding SCGJ for so many years. He mentioned that we have been actually able to achieve all these milestones because of the able guidance of the GC.

**The meeting ended with vote of thanks to the chair.**



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