



Green Jobs Handbook

2047

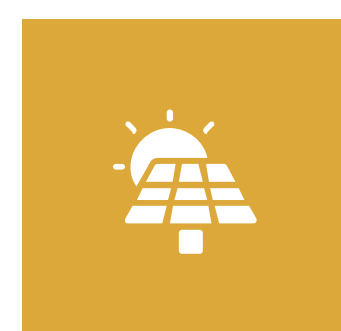
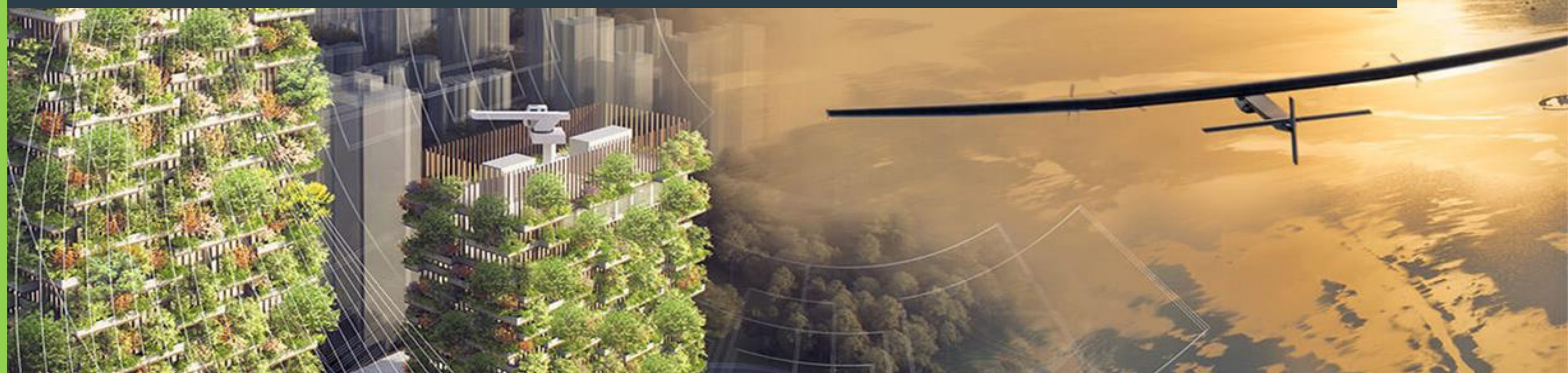
VISION



**Skill Council for
Green Jobs**

**NCVET Recognised
Awarding Body**

A comprehensive information
handbook to **foster career**
in **Green Business**.





Shri. Dharmendra Pradhan

Hon'ble Minister, Government of India.

Minister of Education

Minister of Skill Development and Entrepreneurship

“ *India's energy demand is going to increase in the future, and it has taken a number of concrete steps that are shaping India's energy transition pathways for a low carbon economy. Balancing accessibility and affordability, India is creating a global model of energy justice.*

Shri. Dharmendra Pradhan at 11th World PetroCoal Congress and World Future Fuel Summit.

Source: Press Information Bureau, Government of India



Shri. Rajeev Chandrasekhar

Hon'ble Minister of State, Government of India.

Minister of State for Skill Development and Entrepreneurship

Minister of State for Electronics and Information Technology

“ *We are offering skills to men and women equally and it is for them to use those skills to create opportunities for themselves either in **employment or micro-entrepreneurship.***

Shri. Rajeev Chandrasekhar during an online session titled “Gender-responsive economic recovery and bouncing back better.”

Source: The Indian Express

Table of Content

1	About Skill Council for Green Jobs	1
2	Key Sectors covered under SCGJ	2
3	Hon'ble Prime Minster on Green Energy Sector	3-5
4	Renewable Energy Sector - Indian Scenario	6
5	Indian Energy Sector 2022- 2047	7
6	Key Renewable Energy Sectoral Strengths	8
7	Government of India Goals & Plan	9
8	Green Energy Projections by 2047	10
9	Job Projections in Green Business	10
10	Future sectors with high Job potential in Green Business	11-12
11	SCGJ Goal 2030 & SCGJ Vision 2047	13
12	Future Outlook of SCGJ	14
13	Qualifications in Green Business: Present & Future	15-33
14	SCGJ Rozgar Portal	34
15	SCGJ Entrepreneurship Initiative	35



SUSTAINABLE DEVELOPMENT GOALS

About Skill Council for Green Jobs

Skill Council for Green Jobs (SCGJ) is the sector skill council created by the Ministry of Skill Development and Entrepreneurship (MSDE) and is working in the domain of capacity building for green businesses and cutting edge climate friendly technologies. SCGJ has been incorporated as a Society in October, 2015, which is being managed by industry led Governing Council. The SCGJ scope covers the entire gamut of “Green Businesses”, viz Renewable Energy, Sustainable Development, Green Construction, Green Transport, Green Hydrogen, Solid Waste Management, Water Management & e-Waste Management, hence would have pan India impact.

National Council for Vocational Education and Training (NCVET) has recognised SCGJ as its Awarding Body.

The focus of SCGJ has been to establish a strong industry connect in all its areas of work. SCGJ is building on its industry connect with a government-industry interface and partnership with stakeholders from industry, labour as well as the academia. Its activities are linked to Skill India Mission, National Solar Mission, Swachh Bharat Mission and Make in India initiative of Government of India.

SCGJ is closely interacting with Ministry of New and Renewable Energy, Ministry of Environment, Forest & Climate Change, Ministry of Housing and Urban Affairs, Ministry of Jal Shakti and NITI Aayog to cater to the skilled manpower requirements for the changing scenario. Skill council for Green Jobs is working towards introducing environmental friendly and sustainability in existing job roles as well.



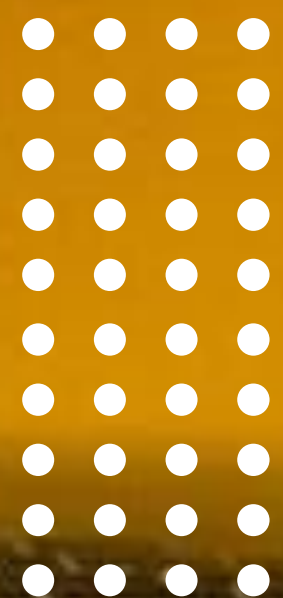
OUR MISSION

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 and entrepreneur development initiatives that will enable meet India's potential for “**Green Businesses**”.



OBJECTIVE







Quality training to meet industry expectation and to promote skill development for Green Business and energy and environment conservation.



Key Sectors covered under SCGJ





01

Renewable Energy

-  Solar PV & Solar Thermal
-  Wind
-  Hydro
-  Energy Storage
-  Biomass Power/Cogen + CHP / - Waste to Energy
-  Clean Cook-Stoves
-  Biofuels & Biogas
- Compressed Biogas / Bio CNG

02

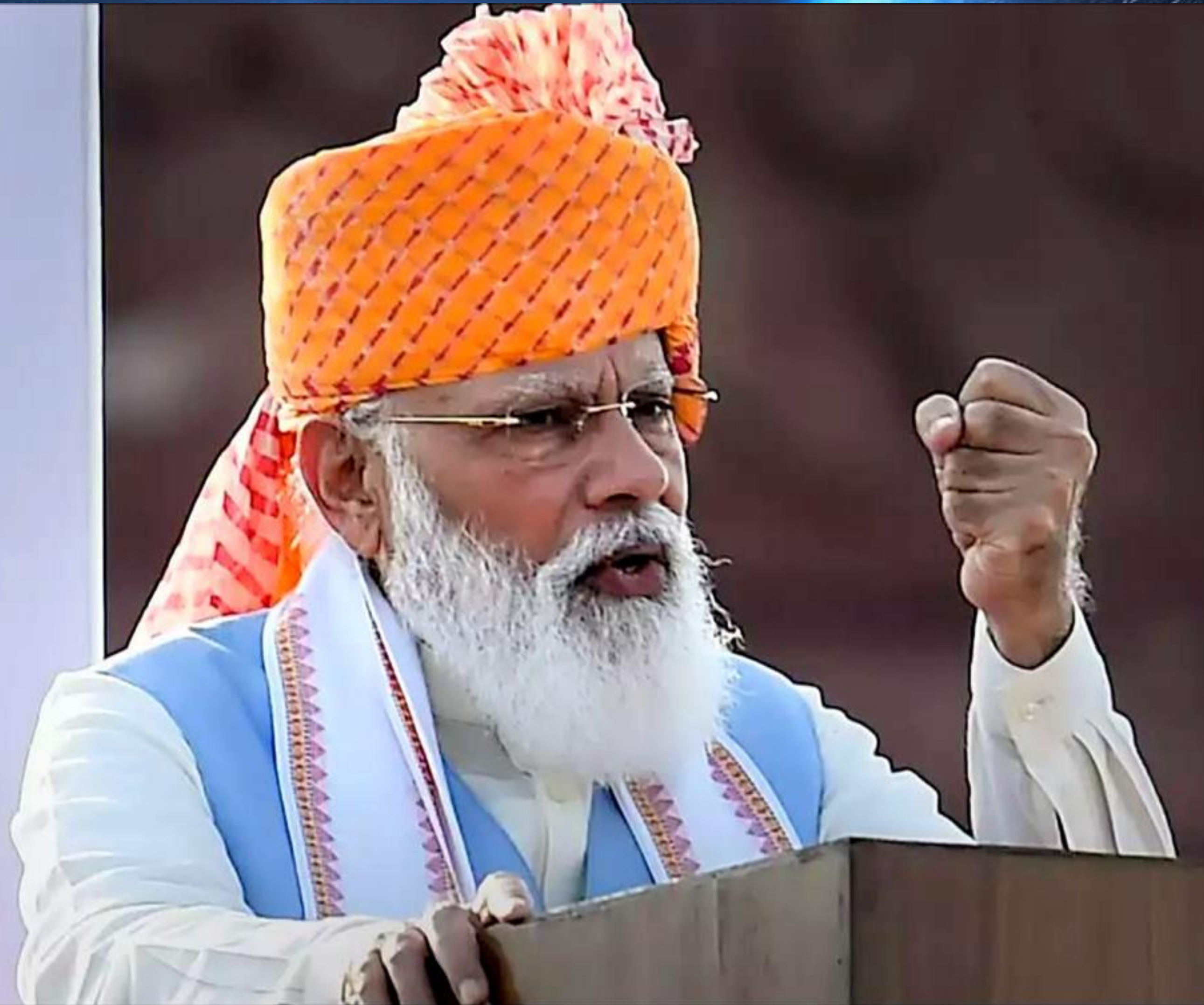
Environment, Forest and Climate Change

-  Solid Waste Management
- Municipal
- Agriculture & Animal Husbandry
-  Water Management
- Sewage treatment
- Rain Water Harvesting & Micro-irrigation
-  E-Waste Management
-  Carbon Sinks
- TBO-Oil Seeds
- Agro-Forestry + Plantation

03

Sustainable Development

-  Green Construction
- Green Buildings
- Green Campuses
-  Green Transportation
- Electric Vehicles
- Biofuels
- Bio-CNG
-  Pollution Prevention & Control
-  H₂ Green Hydrogen
-  Energy Storage



**Hon'ble Prime Minister
Shri. Narendra Modi**
on 15th August 2021

“

*Make India energy independent
before the completion of **100 years**
of independence (Year 2047).*

The country is also emphasizing on
Mission Circular Economy.



Environment and Renewable Energy

- ❖ There should be a network of CNG & PNG across the country. There should be a target of 20 percent ethanol blending (in petrol / diesel).
- ❖ India has set a target of 450 GW of renewable energy by the end of this decade - 500 GW non fossil energy by 2030.
- ❖ Announced the National Hydrogen Mission.
- ❖ Make India a Global Hub for Green Hydrogen Production and Export during next 25 years.
- ❖ Move towards Clean Energy Transition.



Waste and Water Management

- ❖ Campaign of water conservation.
- ❖ Plastic-free India, completely stop the use of single use plastic.
- ❖ To take the Swachh Bharat Mission to another new level.



New opportunities
from Green Growth to
Green Jobs are opening
up today for our
start-ups & youth.



India's path way to combat climate change

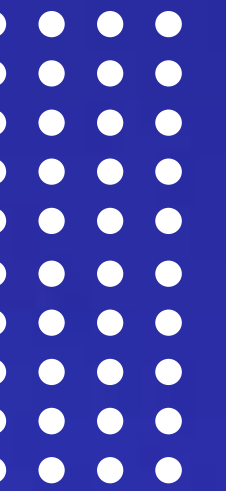
At the Glasgow summit, Hon'ble Prime Minister announced that India will **attain net zero** emissions by 2070, to combat climate change. He also announced that India will raise its non-fossil energy capacity to 500 GW by 2030 while meeting 50% of its energy demand from renewable sources, and cut its carbon emissions by a billion tonnes by the same year.

PANCHAMITRA at COP 26

India's five-point climate action plan, which PM Narendra Modi described as "Panchamitra (five values)", is set to give a firm push to India's plans for an accelerated transition to a low carbon economy.

- 01** Achieve the target of net-zero by 2070
- 02** 50% of energy requirements to be met through RE by 2030
- 03** Emissions intensity of GDP to be reduced by 45% by 2030
- 04** Reduce 1 Billion tonne of Carbon Emissions by 2030
- 05** Non-fossil energy capacity to reach 500 GW by 2030

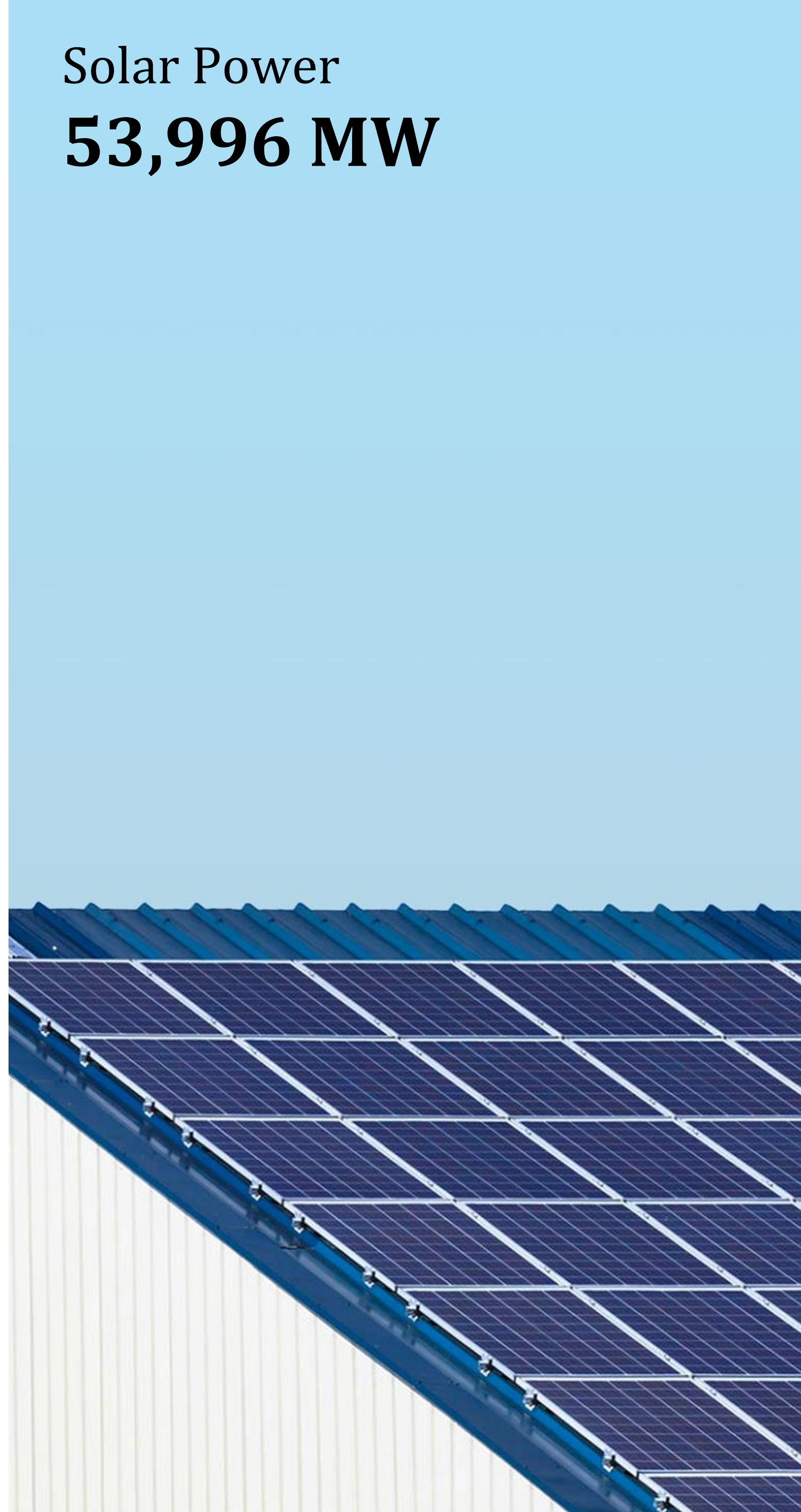
Hon'ble Prime Minister Shri. Narendra Modi in COP 26 (Nov. 2021)



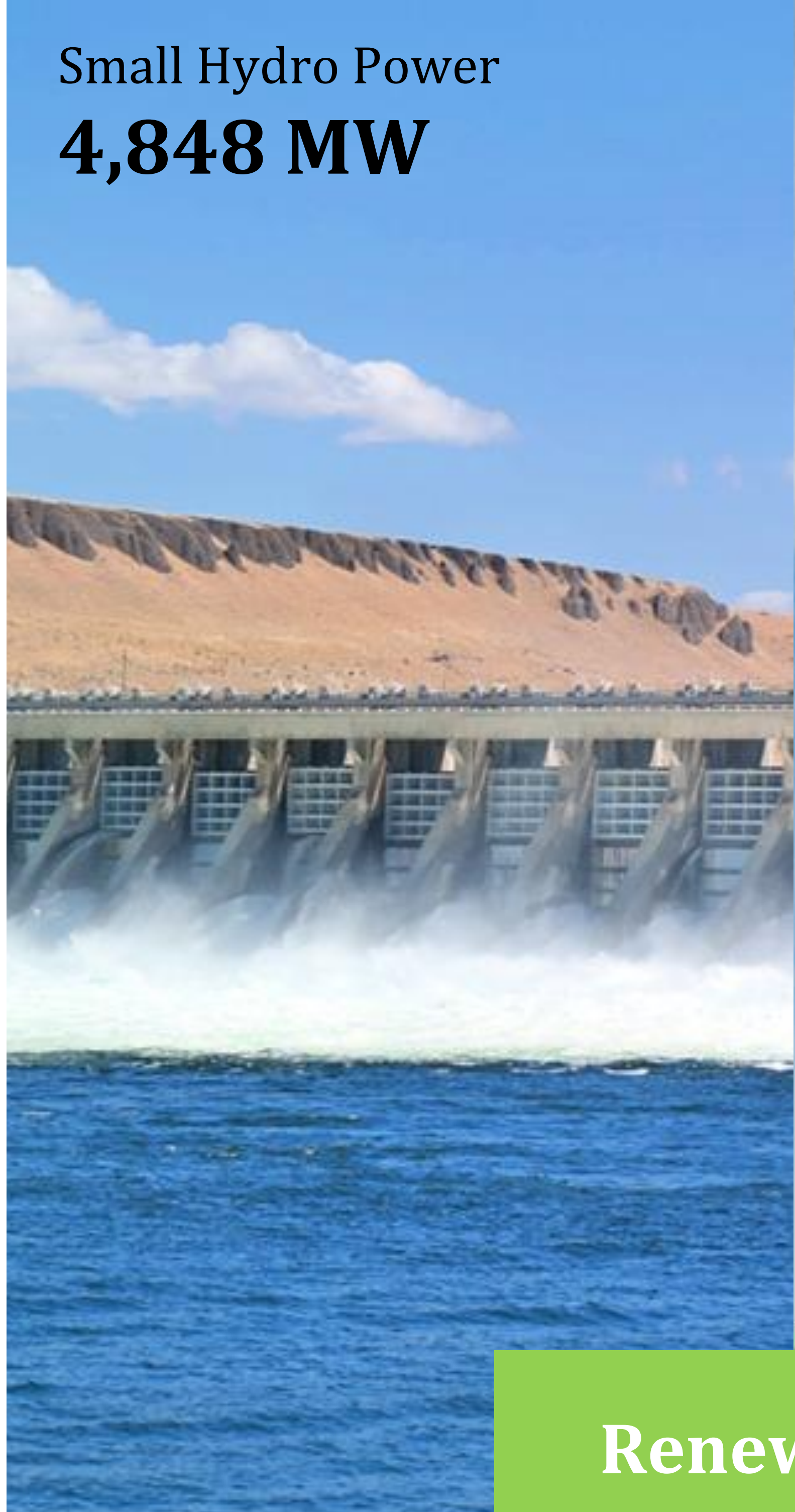
Wind Power
40,357 MW



Solar Power
53,996 MW



Small Hydro Power
4,848 MW



Bio-Power
10,682 MW



Renewable Energy Sector
Indian Scenario



Wind Power
40357.58 MW

Solar Power - Ground Mounted
45793.20 MW

Solar Power - Roof Top
6645.70 MW

SPV Systems (Off-grid)
1557.64 MW

Small Hydro Power
4848.90 MW

Waste to Power
223.14 MW

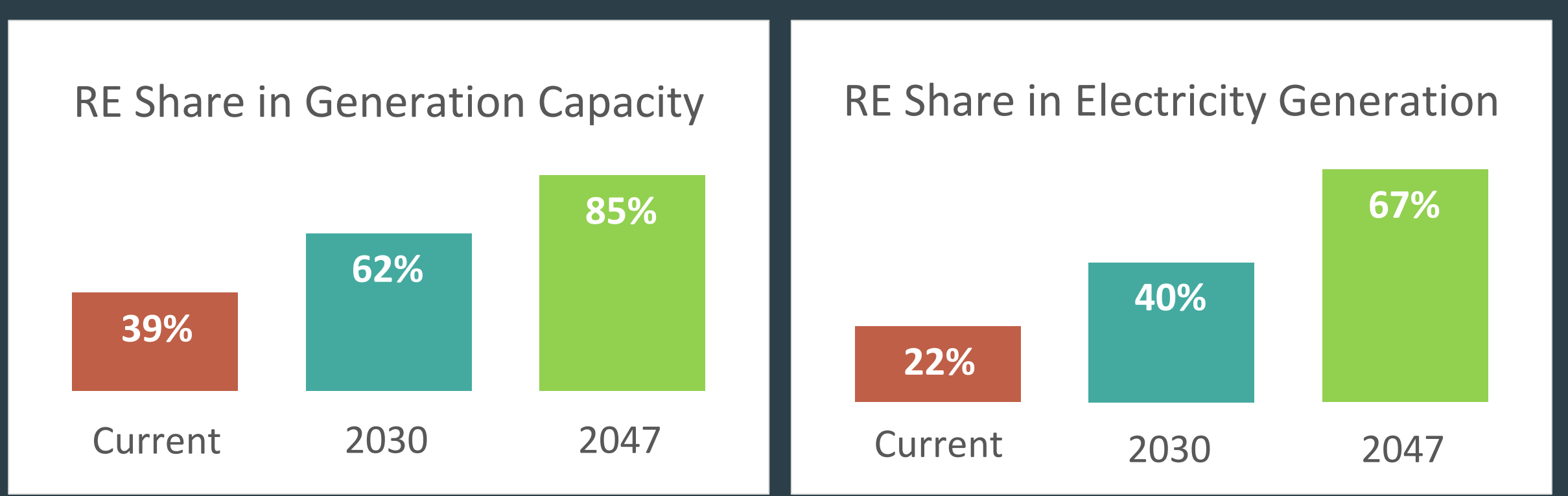
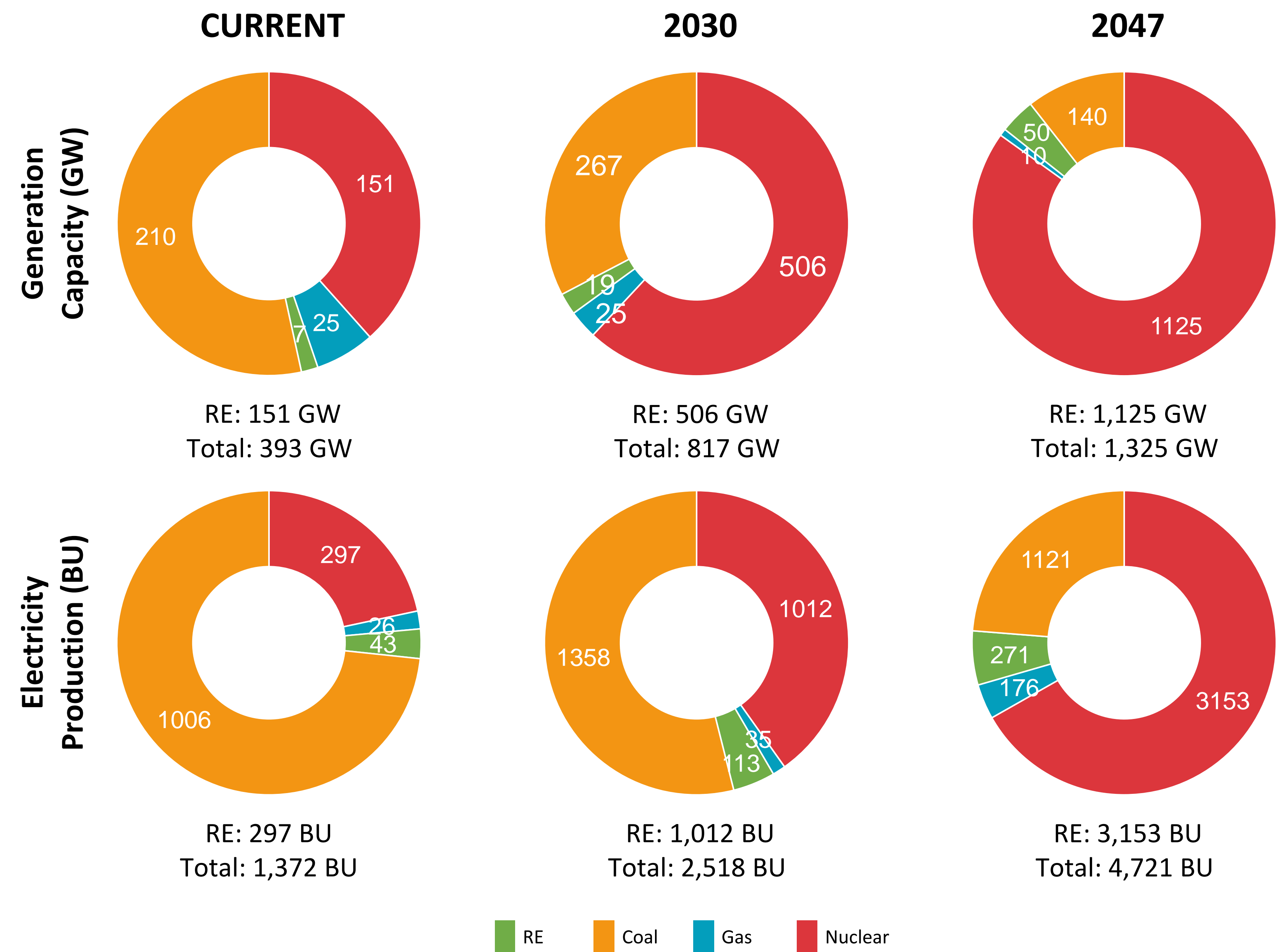
Waste to Energy(off-grid)
253.61 MW

Biomass (Bagasse) Cogeneration
9433.56

Biomass (non-bagasse) Cogeneration
772.05 MW

Source: MNRE, Programme/Scheme wise Cumulative Physical Progress as on March, 2022 | <https://mnre.gov.in/the-ministry/physical-progress>

Indian Energy Sector 2022- 2047



Source: MNRE Vision 2047 (CEA Optimal Energy Mix Report (Jan. 2020), NITI Aayog - India Energy Outlook, 2021)

Key Renewable Energy Sectoral Strengths

Leading to future job opportunities



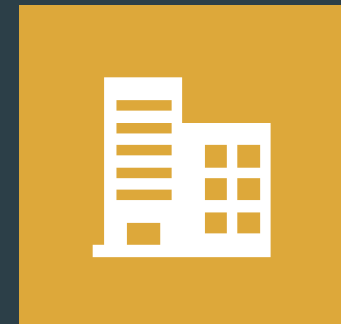
Abundant RE Potential

Solar: 750 GW, Wind: 695 GW,
Bio-energy: 42 GW, Waste-to-Energy: 5.65 GW



Strong Policy Backing

For Renewables
Electricity Act, NDCs, State Policies



Robust Grid Infrastructure

One Nation-One Grid,
Green Energy Corridors



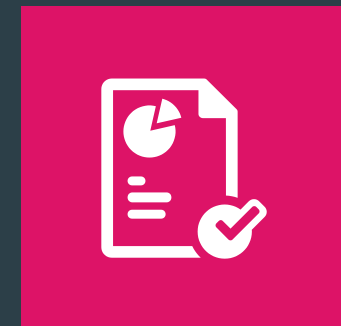
Ability to attract Domestic & International capital

Through proven, sustainable
and profitable business models



State-of-the-art Manufacturing Ecosystem

Available for Wind,
Upcoming for Solar



Strong Institutional Framework

Dedicated Ministry, Regulatory Bodies
and RE Implementing Agencies



Counter-Party Framework

For contracts,
Payment security



Rich experience

In skillsets and capability building, regulations, project
development, and financing

The potential estimates are likely to increase significantly with improvements in efficiency, land use optimization, etc.

Source: MoP, MNRE, IEEMA and <https://www.investindia.gov.in>



Government of India Goals & Plan

RE Sector Key Goals for India - 2047

- Energy Independence and Security
- Enhancing Decarbonization of the Energy Sector
- Self sufficiency in manufacturing of RE Technologies
- Global hub for Green Hydrogen Production and Exports

Government Plan towards Programmatic Interventions

- 01 National Green Hydrogen Mission
- 02 Interventions to promote Domestic Manufacturing of RE equipment
- 03 Innovative Market Mechanisms for RE
- 04 Policies & Regulations to promote decarbonization and circularity across value chains
- 05 Scaling up programmes for Off-shore wind, waste to energy, DRE, farmers (KUSUM), rooftop solarization
- 06 Strategic bilateral and multilateral partnerships on technology, finance, trade
- 07 Measures to build supply chains for critical materials and components
- 08 Strengthening institutional capacity and industrial competitiveness



Renewable Energy Projections by 2047



Allied technologies including electrolyzers, 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 CO₂ emissions factor of 0.8 kg/kWh, annual CO₂ 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
6 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.



Future sectors with high Job potential in Green Business

- 01 Green Hydrogen Energy
- 02 Floating Solar Power Plants
- 03 Off Shore Wind Power Plants
- 04 Wind-Solar Hybrid and other Renewable Energy Systems
- 05 Biomass /Biofuels/ Bio CNG Production and Supply Chain
- 06 Large Size Energy Storage
- 07 EV Charging Through Solar Energy Plants
- 08 Pollution Prevention and Control Network
- 09 E-waste Management
- 10 De-Carbonisation of Energy intensive Sectors

Key existing and emerging thematic areas for accelerating job creation



Renewable
Power Generation



Green
Hydrogen



Make in India
for the world



Energy
Storage



EV
Charging

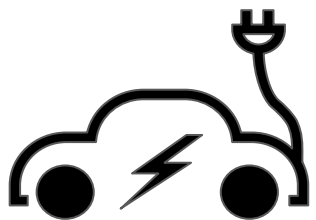


Factors driving skilling and employment opportunities in a Low carbon Indian economy

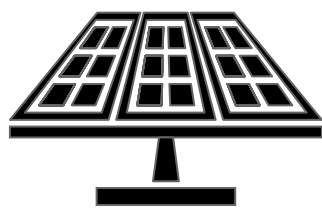
Green Hydrogen

Job roles like Green Hydrogen Production Operator
Green Hydrogen Application Analyst, etc

H₂
Economy



EV Charging and Clean Transportation
Job roles like Solar Charging Operator
Battery Swapping Operators, etc



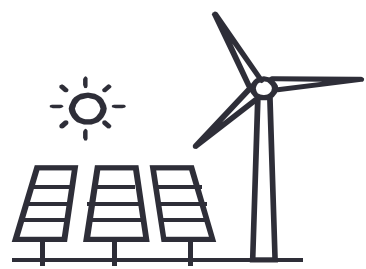
Make in India for the world
Job roles like Solar PV Manufacturing Operator
Wind Turbine Manufacturing Technician, etc



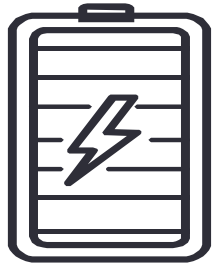
Green Buildings
Job roles like Energy Efficient Building Designer
Green Building Material Sourcing Manager, etc.



Circular Economy
Job roles like Manager - Circular Economy
Product and Packaging Technicians, etc.



Renewable Power Generation
Job roles like RE Installation and O&M Technicians
Clean Energy Entrepreneurs
Biomass Plant/Biofuel Production Operator, etc.



Energy Storage
Job roles like Storage System Operator
Battery Management System Operator, etc.

Opportunities
For multi-skilling and
new jobs creation

SCGJ Goal 2030



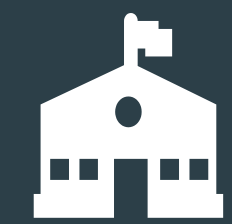
10 Lakh

Short term trainings in clean and Green Technologies



20 Lakh

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



20 Center of Excellence

PAN India



750

Affiliated Training Centers



7500

Certified Trainers

SCGJ Vision 2047



- Every Job role will contribute in the **Green Energy Transition**.
- Green Energy will be **part of every house hold and Industry**.
- **All traditional job roles will be comprehensively attributed with Green skills**
- **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 to continuously align all its skilling interventions with the key missions and schemes of the Government including Atmanirbhar Bharat, Make in India, National Solar Mission, National Hydrogen Mission, Clean India Mission, Clean Ganga Mission, National Climate Change Action Plan etc.

- **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**

Enhancing Partnership with Educational institutions including schools for integrating vocational learning with the implementation of New Education Policy

- **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.



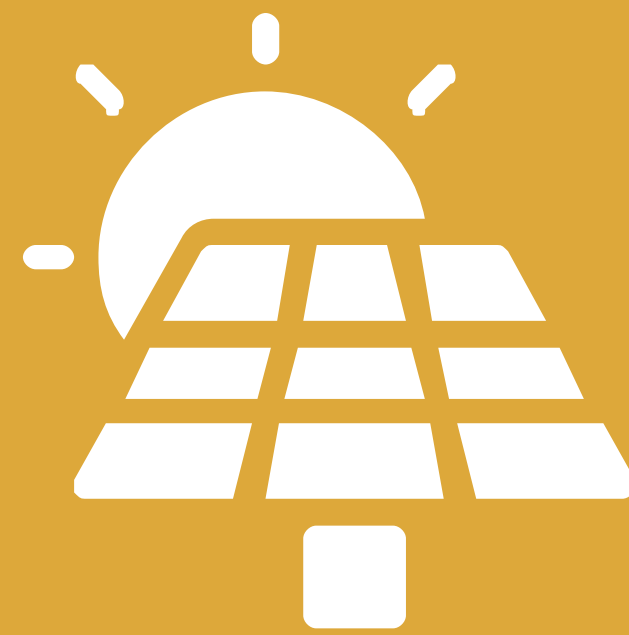
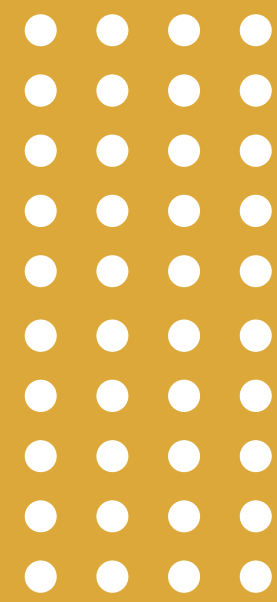


Qualifications in Green Business

Present & Future

Qualifications (Skill Course)

Solar Energy



1

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

NQR Code: [2022/EHW/SCGJ/06724](https://www.ehw.gov.sg/SCGJ/06724)

DESCRIPTION

The Learner 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.

Overview of QP

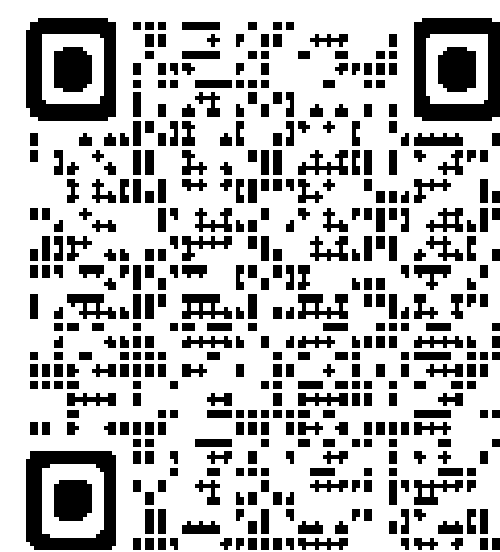
NSQF Level: 4

Course Duration/Training Hours: 420

Trainee Qualification: 10th pass + ITI / Diploma (Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation/Welder)

Entry Age (Years): Minimum age: 16

Scan QR Code
to access related content



2

Solar PV Installer – Electrical SGJ/Q0102 v3.0

NQR Code: [2022/EHW/SCGJ/06725](https://www.ehw.gov.sg/SCGJ/06725)

DESCRIPTION

The Learner 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.

Overview of QP

NSQF Level: 4

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

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3

Solar PV Solar PV Installer – Civil SGJ/Q0103 v3.0NQR Code: [2021/EHW/SCGJ/04259](#)**DESCRIPTION**

The Learner 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.

Overview of Qualification

NSQF Level: 4

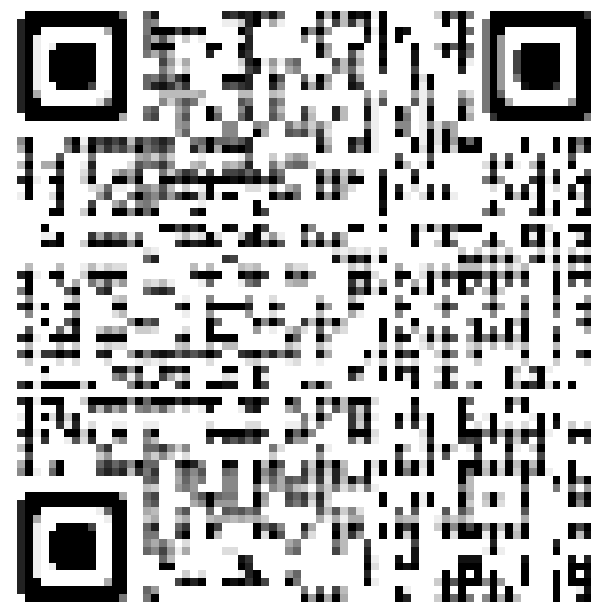
Course Duration/Training Hours: 390

Trainee Qualification: 10th pass + ITI / Diploma (Civil/Mechanical/Fitter/Welder) OR 10 pass+3 years of experience as Mason

Entry Age (Years): Minimum age: 16

Scan QR Code

to access related content



4

Solar Proposal Evaluation Specialist SGJ/Q0105 v3.0NQR Code: [QG-05-EH-00516-2023-V1.1-SCGJ](#)**DESCRIPTION**

The Learner 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.

Overview of Qualification

NSQF Level: 5

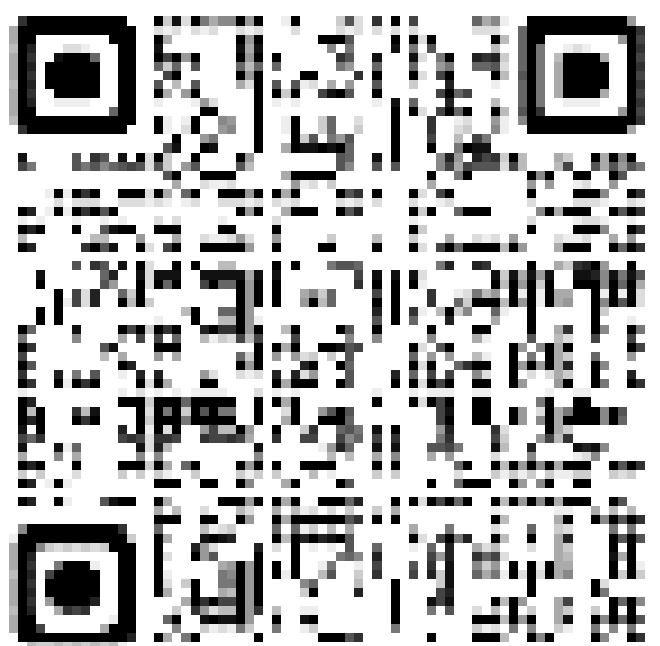
Course Duration/Training Hours: 480

Trainee Qualification: Any Graduate with 3 Years of experience in a financial institution/bank/managing project finance/Post Graduate (MBA/CA)

Entry Age (Years): Minimum age: 19

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5

Rooftop Solar Grid Engineer SGJ/Q0106 v3.0NQR Code: [QG-05-ES-00517-2023-V1.1-SCGJ](#)**DESCRIPTION**

The Learner 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.

Overview of Qualification

NSQF Level: 5

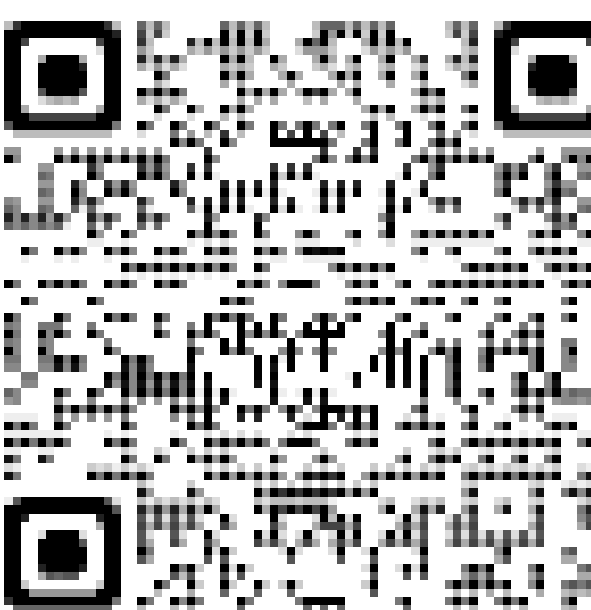
Course Duration/Training Hours: 540

Trainee Qualification: B.E./B.Tech (Electrical, Mechanical or equivalent) OR Graduate (Science) with 2 Year of experience OR Diploma (Electrical or equivalent) with 1 Year of experience

Entry Age (Years): Minimum age: 19

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6

Solar PV Business Development Executive SGJ/Q0107 v3.0NQR Code: [QG-05-ES-00518-2023-V1.1-SCGJ](#)**DESCRIPTION**

The Learner 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.

Overview of Qualification

NSQF Level: 5

Course Duration/Training Hours: 540

Trainee Qualification: 10th Class+ 2 years ITI/Diploma with 3 years of relevant experience; OR BBA/B.Com, with 1 year of experience; OR B.Tech/BE/B.VoC (Renewable Energy or equivalent) with no experience

Entry Age (Years): Minimum age: 19

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7

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

NQR Code: [QG-05-ES-00519-2023-V1.1-SCGJ](#)

DESCRIPTION

The learner would be able to 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.

Overview of Qualification

NSQF Level: 5

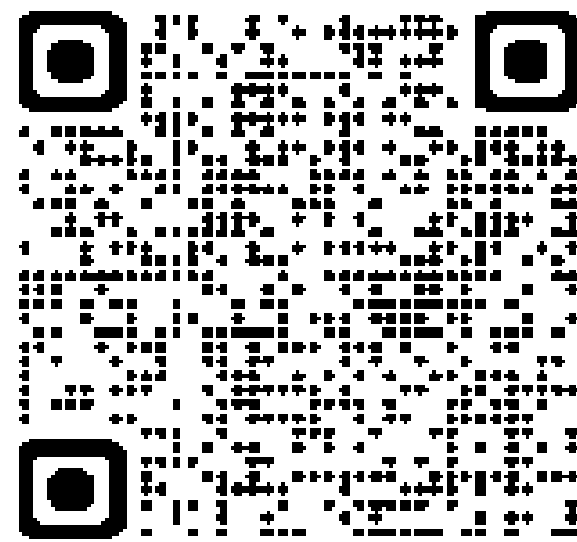
Course Duration/Training Hours: 510

Trainee Qualification: Diploma in Civil Engineering/Structural Engineering

Entry Age (Years): Minimum age: 19

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8

Solar PV Designer SGJ/Q0110 v3.0

NQR Code: [QG-07-ES-00520-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would be able to review civil and electrical design of the Solar PV power plant & prepare the energy simulation report.

Overview of Qualification

NSQF Level: 7

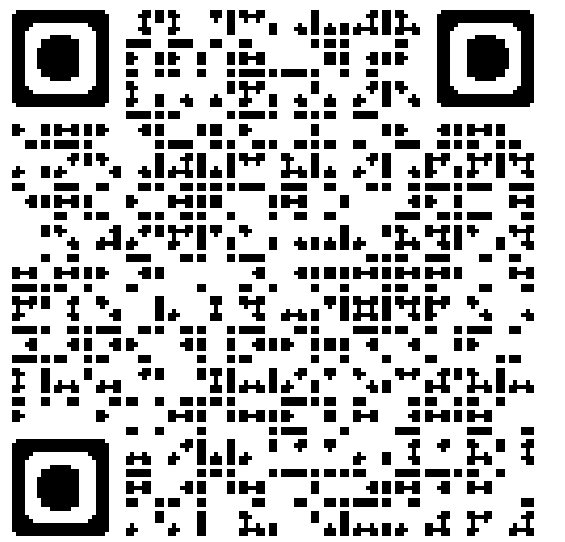
Course Duration/Training Hours: 690

Trainee Qualification: Graduates (B. Tech/ B.E. in Solar/Electrical, Electronics, Civil, Mechanical/Energy Systems) with 5 years of Solar PV experience OR Post- Graduates (M. Tech in Solar/ Renewables/ Energy Studies) with 3 years of experience in the sector

Entry Age (Years): Minimum age: 23

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9

Solar PV Project Helper SGJ/Q0111 v3.0

NQR Code: [QG-02-EH-00521-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner 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.

Overview of Qualification

NSQF Level: 2

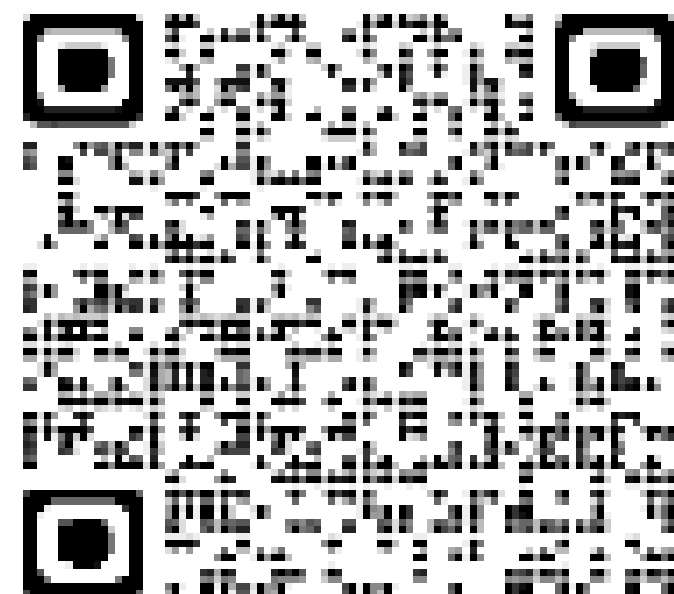
Course Duration/Training Hours: 270

Trainee Qualification: Ability to read and write

Entry Age (Years): Minimum age: 16

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10

Solar PV Engineer SGJ/Q0112 v3.0

NQR Code: [QG-05-ES-00522-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would be able to take responsibility of design, installation and commissioning of solar power plant at site, its quality QA and HSE issues. S/he would also prepare site feasibility report. Learner also given an option to opt training on Solar Water Pumping, as a part of learning, S/he would also be able to design, install and commission solar water pumping systems.

Overview of Qualification

NSQF Level: 5

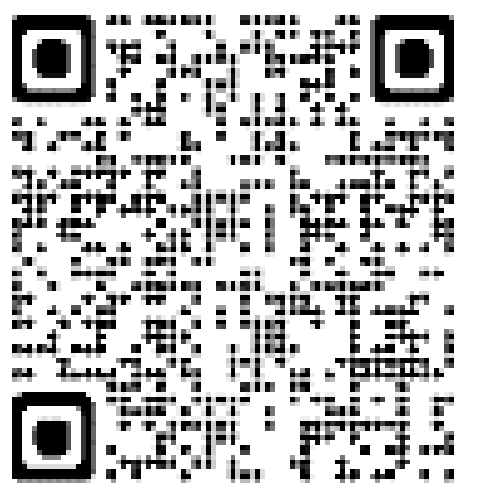
Course Duration/Training Hours: 510

Trainee Qualification: B.E./B.Tech. OR Diploma (Electrical/Electronics/ Civil/Mechanical) with 2 years of relevant experience

Entry Age (Years): Minimum age: 19

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to access related content



11

Solar PV Project Manager(E&C) SGJ/Q0114 v2.0NQR Code: [2021/EHW/SCGJ/04267](#)**DESCRIPTION**

The Learner with her/his team of site in-charge and commercial manager, receives different components of the solar PV power plant (modules, inverter, transformers etc.) procure 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.

Overview of Qualification**NSQF Level: 7****Course Duration/Training Hours: 660**

Trainee Qualification: 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

Entry Age (Years): Minimum age: 23

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to access related content



12

Solar PV Maintenance Technician - Electrical (Ground Mount)SGJ/Q0115 v2.0 NQR Code: [2021/EHW/SCGJ/04268](#)**DESCRIPTION**

The Learner 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.

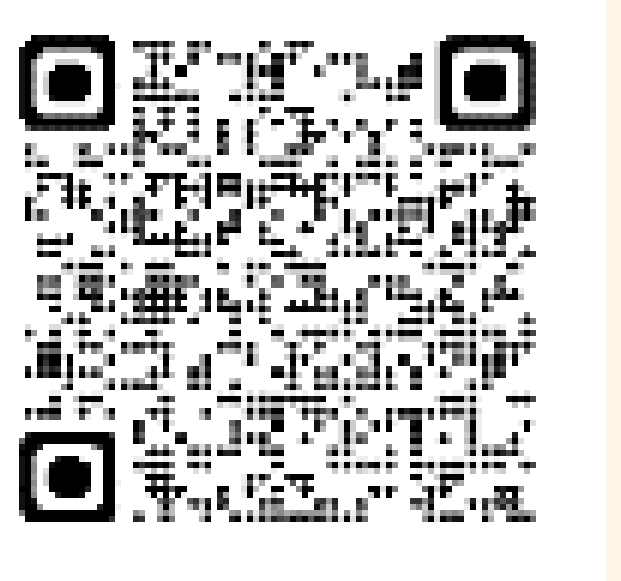
Overview of Qualification**NSQF Level: 4****Course Duration/Training Hours: 420**

Trainee Qualification: ITI - Electrical and Electronics

Entry Age (Years): Minimum age: 18

Scan QR Code

to access related content



13

Solar PV Manufacturing Operator SGJ/Q0119 v2.0NQR Code: [2021/EHW/SCGJ/04269](#)**DESCRIPTION**

The Learner 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.

Overview of Qualification**NSQF Level: 4****Course Duration/Training Hours: 420**

Trainee Qualification: 10th pass

Entry Age (Years): Minimum age: 18

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to access related content



14

Solar Lighting Assembler SGJ/Q0201 v2.0NQR Code: [2021/EHW/SCGJ/04270](#)**DESCRIPTION**

The Learner would be able to perform assembly of different types of solar lamps, repair of solar lamps with safety. With an elective, S/he would be able to assemble and repair of solar home lighting systems and solar street lights.

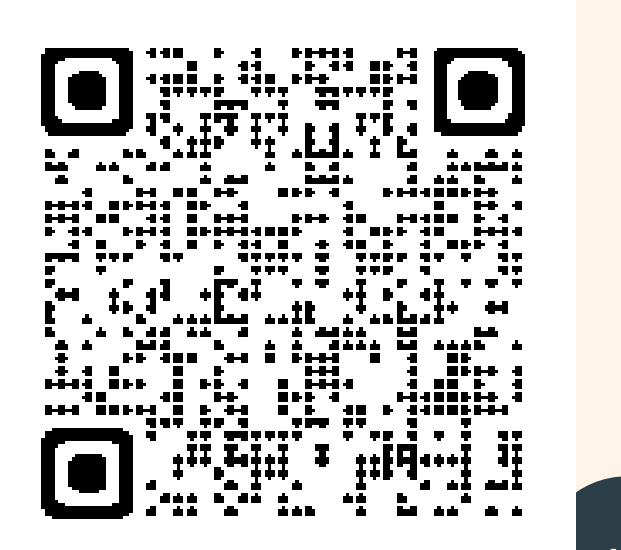
Overview of Qualification**NSQF Level: 4****Course Duration/Training Hours: 420**

Trainee Qualification: 8th Pass

Entry Age (Years): Minimum age: 16

Scan QR Code

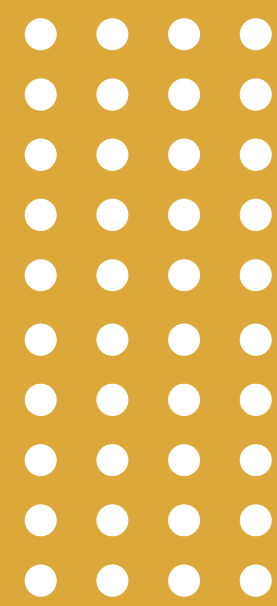
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Qualifications (Skill Course)

Solar Energy

Potential Job role



15

Solar Photovoltaic Entrepreneur SGJ/Q0901 v2.0

NQR Code: [QG-05-ES-00528-2023-V1.1-SCGJ](#)

DESCRIPTION

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.

NSQF Level: 5

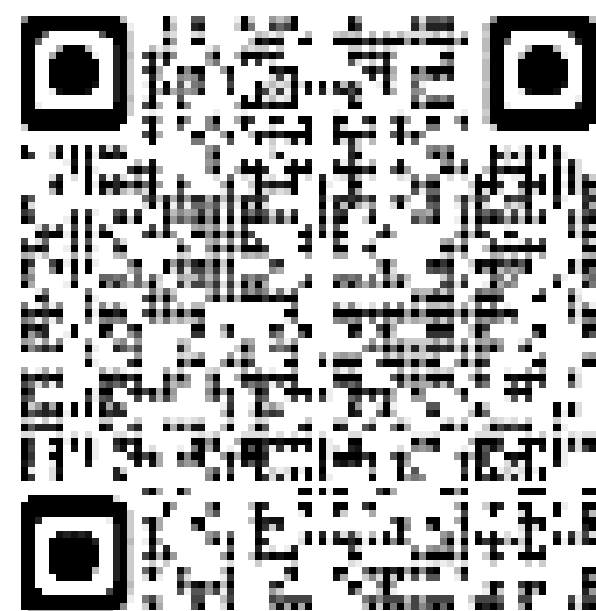
Course Duration/Training Hours: 540 hours.

Trainee Qualification: Class 12th with 3 years of relevant experience in solar sector

Entry Age (Years): Minimum age: 21years

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to access related content



16

Solar PV Cell Manufacturing Technician SGJ/Q0203 v3.0

NQR Code: [QG-04-ES-00147-2023-V1-SCGJ](#)

DESCRIPTION

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.

NSQF Level: 4

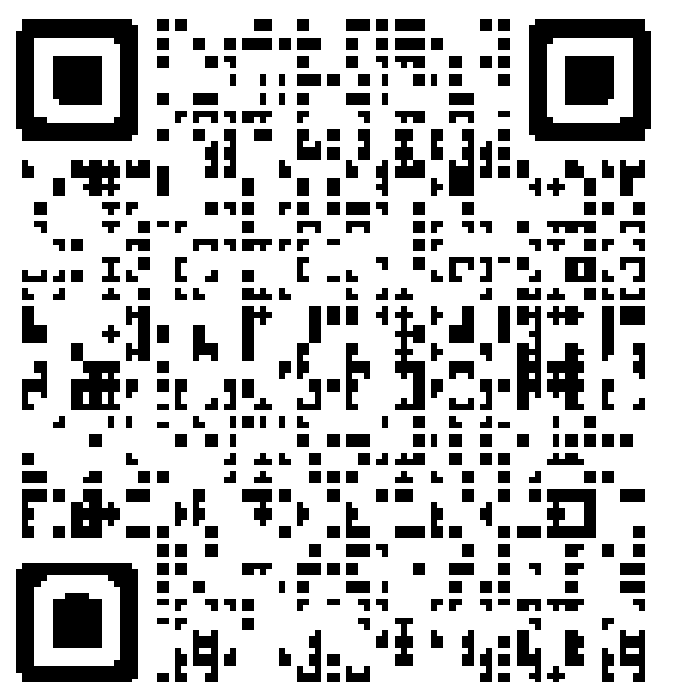
Course Duration/Training Hours: 420 hours.

Trainee Qualification: Class 12th with 3 years of relevant experience in solar sector

Entry Age (Years): Minimum age: 16years

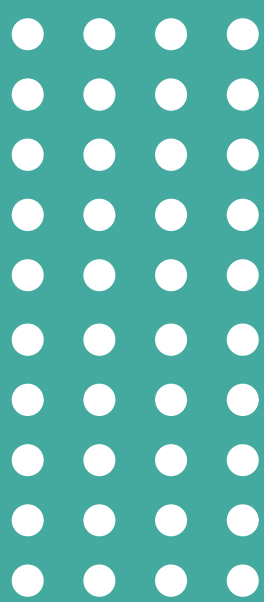
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Qualifications (Skill Course)

Wind Energy



17

Project Assistant Planner – Wind Power Plant SGJ/Q1201 v3.0
NQR Code: [QG-03-PW-00529-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would assists in carrying out planning of workflow for turbines & electrical systems, Erection & Commissioning (E&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.

Overview of Qualification

NSQF Level: 3

Course Duration/Training Hours: 330

Trainee Qualification: Class 12th with Science OR ITI after Class 10th (in Electrical/ Mechanical/ Civil/ and related trades) or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)

Entry Age (Years): Minimum age: 16

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18

Wind Resource Assessor and Site Surveyor-Wind Power Plant SGJ/Q1202 v3.0
NQR Code: [QG-05-PW-00530-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would carries out wind energy site inspection, site assessment, checking site access, approach roads, grid availability for power evacuation, substation availability & its capacity and other relevant proximity of site.

Overview of Qualification

NSQF Level: 5

Course Duration/Training Hours: 480

Trainee Qualification: B.E./B.Tech (Electrical/ Mechanical/ Civil/ Electronics and Communication / Control & Instrumentation) Or Government recognized 3 years Diploma after class XII (Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation), with 2 years of relevant work experience

Entry Age (Years): Minimum age: 18

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19

Construction Technician- Wind Power Plant SGJ/Q1401 v3.0

NQR Code: [QG-04-PW-00531-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would carry out installation, testing, erection & commissioning of all parts & components of wind power plant including WTG, transformer, blades, nacelle, junction boxes and other associated accessories as per design drawing. With an elective of mechanical, electrical and civil, s/he would carryout installation and commissioning of respective components.

Overview of Qualification

NSQF Level: 4

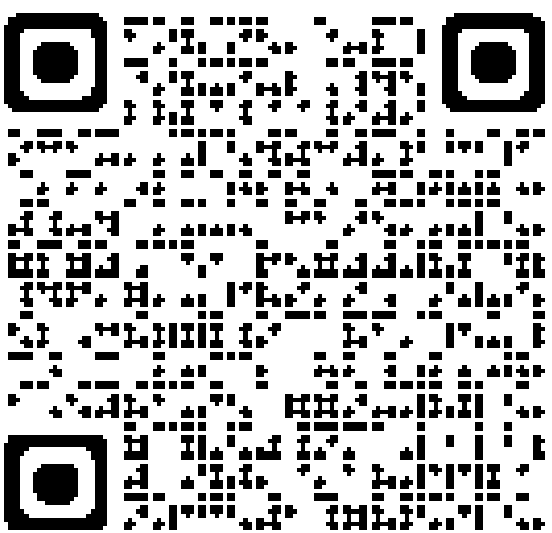
Course Duration/Training Hours: 420

Trainee Qualification: Class 12th with science with 1 year relevant work experience OR ITI after class 10th (in Electrician /Mechanical/ Fitter/Welder/ and related trades) with 1 year of relevant work experience OR Government recognized 3 years Diploma (in Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)

Entry Age (Years): Minimum age: 16

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20

CMS Engineer- Wind Power Plant SGJ/Q1501 v3.0

NQR Code: [QG-05-PW-00532-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would be able to carry out installation and commissioning of Condition Monitoring System(CMS) of Wind Power Plant. S/he would also monitor the operation and maintenance of the CMS with a continuous stream of system data, mostly based on vibration monitoring and other operating conditions.

Overview of Qualification

NSQF Level: 5

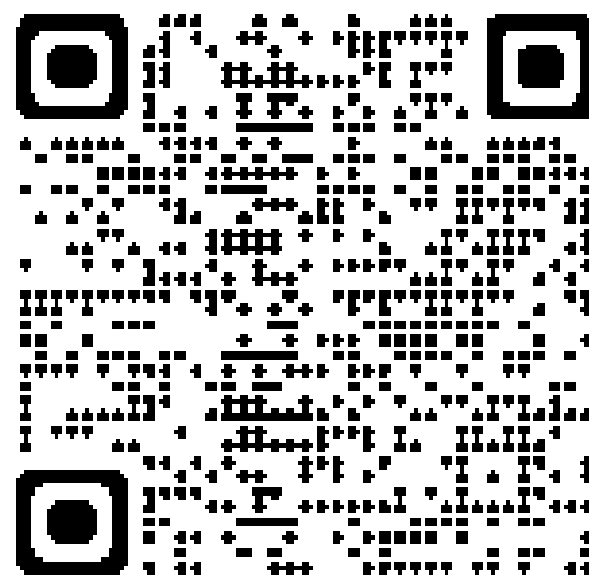
Course Duration/Training Hours: 480hours

Trainee Qualification: B.E./B.Tech. (Electrical /Electronics/Instrumentation and control engineering/Mechanical/Computer and Communications)

Entry Age (Years): Minimum age: 19

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to access related content



21

O&M Mechanical Technician – Wind Power Plant SGJ/Q1502 v3.0

NQR Code: [QG-04-PW-00533-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would carry out operations and maintenance of mechanical components of wind power plant, complying with all operational manuals, applicable codes, standards, and safety requirements.

Overview of Qualification

NSQF Level: 4

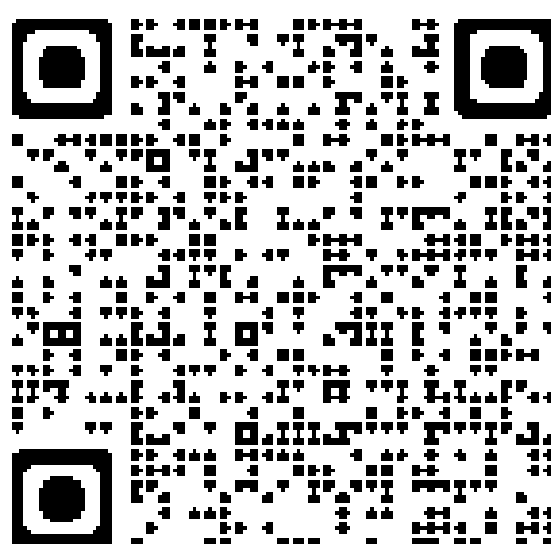
Course Duration/Training Hours: 420 hours

Trainee Qualification: Class 12th with science with 1 year relevant work experience or ITI after Class 10th (Electrician /Mechanical/ Fitter/Welder/ and related trades) with 1 year of relevant work experience Or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)

Entry Age (Years): Minimum age: 16

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22

O&M Electrical & Instrumentation Technician – Wind Power Plant

SGJ/Q1503 v3.0 NQR Code: [QG-04-PW-00534-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would perform operation and maintenance of switchgear, transformer, O/H and U/G Lines, SCADA, communication system (Fiber Optics) and complying with all operational manuals, applicable codes/standards, and safety requirements.

Overview of Qualification

NSQF Level: 4

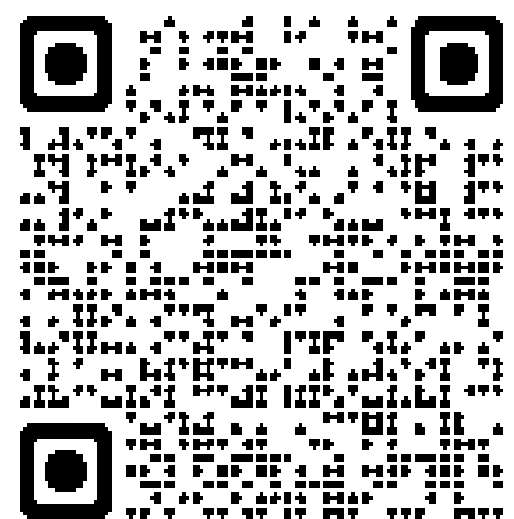
Course Duration/Training Hours: 420 hours

Trainee Qualification: Class 12th with science with 1 year relevant work experience OR ITI after class 10th (in Electrician /Mechanical/ Fitter/Welder/ and related trades) with 1 year of relevant work experience OR Government recognized 3 years Diploma (in Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)

Entry Age (Years): Minimum age: 16

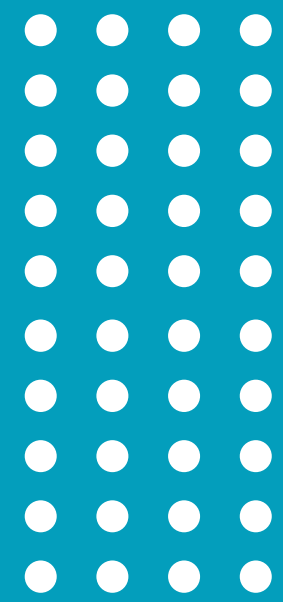
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Qualifications (Skill Course)

Small Hydro



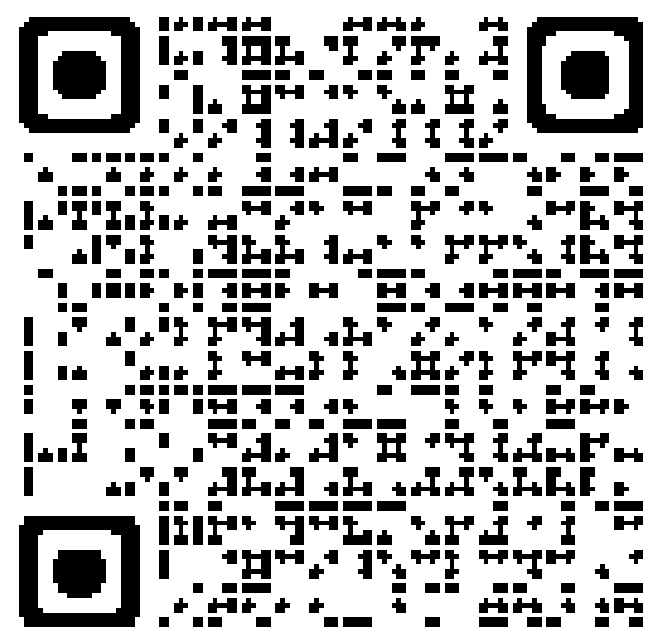
23 Small Hydro Power Plant Technician (Jal Urja Mitra) SGJ/Q0604 v2.0

NQR Code: [QG-04-PW-00527-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner 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.

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Overview of Qualification

NSQF Level: 4

Course Duration/Training Hours: 450

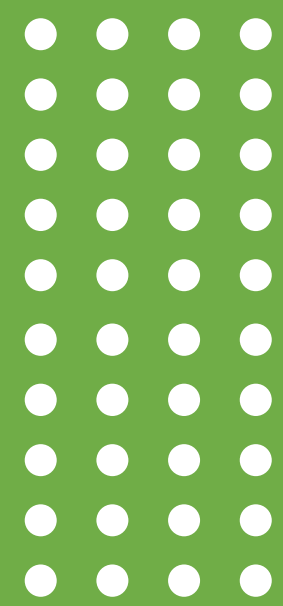
Trainee Qualification: Class 12th with science with 1 year relevant work experience or

ITI after Class 10th (in Electrical/ Mechanical/ Civil/ Instrumentation and related trades) with 1 year of relevant work experience or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/ Control & Instrumentation)

Entry Age (Years): Minimum age: 18

Qualifications (Skill Course)

Biomass Management



24

Recyclable Waste Collector and Segregator SGJ/Q6101 v2.0

NQR Code: [2021/WSSWM/SCGJ/04271](https://www.wsswm.gov.in/SCGJ/04271)

DESCRIPTION

The Learner 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. S/he also ensure health and safety at the workplace. As an entrepreneur S/he would be able to venture into entrepreneurship for recyclable waste collection.

Overview of Qualification

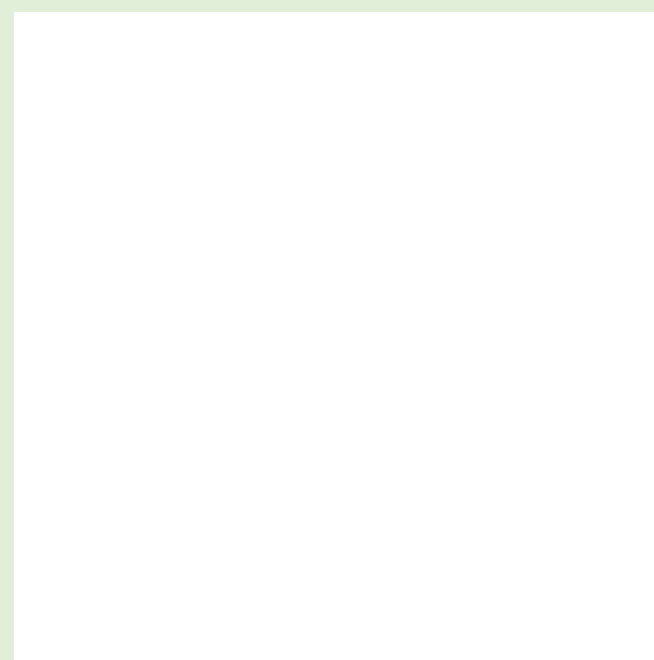
NSQF Level: 4

Course Duration/Training Hours: 160

Trainee Qualification: Ability to read and write

Entry Age (Years): Minimum age: 16

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25

Safai Karamchari SGJ/Q6102 v3.0

NQR Code: [2022/WSSWM/SCGJ/06727](https://www.wsswm.gov.in/SCGJ/06727)

DESCRIPTION

The Learner 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. As an elective for wet cleaning, S/he would specialize in wet cleaning, cleaning and washing bathrooms, lavatory and removing garbage and other waste in closed dustbin. As an elective for 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.

Overview of Qualification

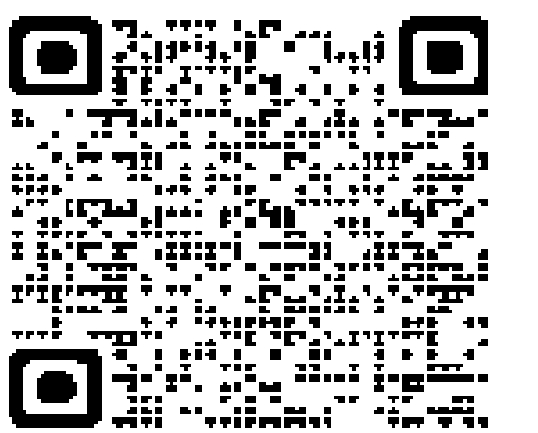
NSQF Level: 3

Course Duration/Training Hours: 330

Trainee Qualification: Ability to read and write

Entry Age (Years): Minimum age: 16

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26

Waste Picker SGJ/Q6103 v2.0
NQR Code: [2021/WSSWM/SCGJ/04273](#)

DESCRIPTION

The Learner would be able to identify 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. S/he recognize 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.

Overview of Qualification

NSQF Level: 3

Course Duration/Training Hours: 160

Trainee Qualification: Not Applicable

Entry Age (Years): Minimum age: 18

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27

Animal Waste Manure Aggregator SGJ/Q6302 v 2.0
NQR Code: [2022/ES/SCGJ/06730](#)

DESCRIPTION

The Learner would 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. As an option for Biogas Operator, S/he would monitor, operate and maintain biogas plant. As an option for Compost Plant Operator, S/he would monitor, operate and maintain compost plant.

Overview of Qualification

NSQF Level: 43

Course Duration/Training Hours: 390

Trainee Qualification: 10th pass

Entry Age (Years): Minimum age: 16

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28

Plant Head- Operations (Compressed Biogas/Waste To Energy)
SGJ/Q0607 v1.0 NQR Code: [2022/WSSWM/SCGJ/05145](#)

DESCRIPTION

The Learner would develop and implement organizational Strategies and Policies to monitor Operation and Maintenance of the Production Unit. S/he would ensure Resource Optimization, Waste Management and Appropriate Documentation. S/he would also manage Human Resources in the CBG Plant and other administrative activities with applicable statutory compliances.

Overview of Qualification

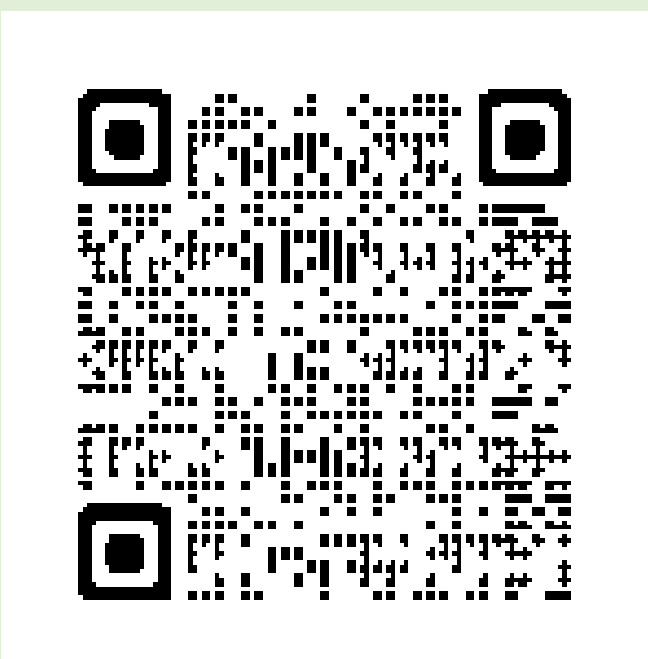
NSQF Level: 7

Course Duration/Training Hours: 600 hours including 400 hours of compulsory modules and 200 hours of mandatory OJT

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 OR NSQF level 6 certified in relevant job role (e.g. Manager- Waste Management) with 2 years of relevant experience Or Certified Supervisor – Operations and Maintenance Compressed Biogas/Waste to Energy - Level 5 with 5 years of relevant work experience.

Entry Age (Years): Minimum age: 28

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29

Biomass Depot Operator SGJ/Q6207 v2.0
NQR Code: [2022/ES/SCGJ/06729](#)

DESCRIPTION

The Learner 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 hazards as per standards.

Overview of Qualification

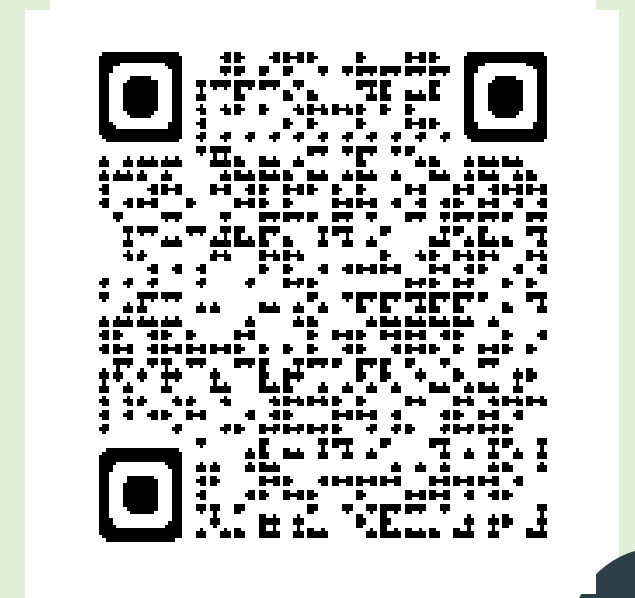
NSQF Level: 4

Course Duration/Training Hours: 390

Trainee Qualification: 10th Pass with 2 years of experience
or NSQF Level 3 certified Agri Residue Aggregator with 1 year of suitable experience

Entry Age (Years): Minimum age: 16

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to access related content



30

Manager- Waste Management SGJ/Q6501 v2.0

NQR Code: [2022/WSSWM/SCGJ/05149](#)

DESCRIPTION

The Learner 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. As an elective for Biomass Depot, She/he specialize in overall operations of biomass depot and associated business. As an elective for Compost Yard, S/he specialize overall operations of compost yard and associated business. As an elective for Dry Waste Center, s/he specializes overall operations of dry waste collection center and associated business.

Overview of Qualification

NSQF Level: 6

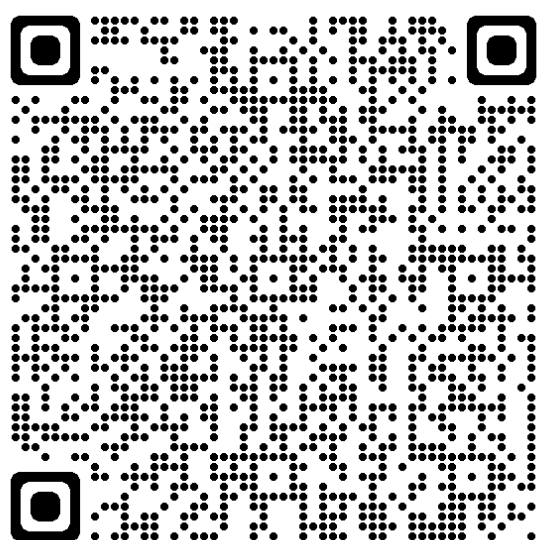
Course Duration/Training Hours: 520 hours including 220 hours of compulsory modules +100 hours of mandatory “on the job training” + 100 hours of optional “on the job training”, with one compulsory Elective of 100 hours

Trainee Qualification: Diploma (Government recognized 3 years Diploma in a relevant discipline) with 4 Years of experience in the relevant field Or Graduate in relevant discipline with 3 Years of experience in the relevant field Or BE (Agricultural Engineering) / BE/BTech in relevant discipline, with 2 years of experience in the relevant field Or MSc Agriculture OR Post Graduation in relevant discipline, with 1 year of experience in relevant field Or NSQF level 5 certified in relevant job role (e.g. Supervisor Operations and Maintenance Compressed Biogas/Waste to Energy) with 2 years of relevant experience

Entry Age (Years): Minimum age: 23

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to access related



31

Technician – Operations and Maintenance (Compressed Biogas

/Waste to Energy) SGJ/0606 v1.0 NQR Code: [2022/WSSWM/SCGJ/05146](#)

DESCRIPTION

The Learner would support effective and efficient operation and maintenance of a CBG plant by troubleshooting, repairing and ensuring maximum up-time of the plant. S/he would also assist in Monitoring and Handling Major Breakdown in the CBG Plant.

Overview of Qualification

NSQF Level: 4

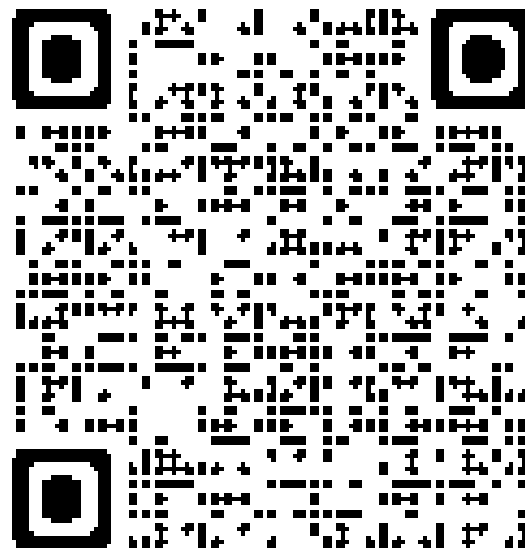
Course Duration/Training Hours: 420 hours

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 recognized 3 years Diploma (Electrical / Mechanical/Civil /Agriculture/ Electronics & Communication / Control & Instrumentation or in a related discipline) Or NSQF level 3 certified in relevant job role with 2 years of relevant experience

Entry Age (Years): Minimum age: 18

Scan QR Code

to access related content



32

Supervisor – Operations & Maintenance (Compressed Biogas/Waste

to Energy) SGJ/Q0605 v1.0 NQR Code: [2022/WSSWM/SCGJ/05147](#)

DESCRIPTION

The Learner would 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.

Overview of Qualification

NSQF Level: 5

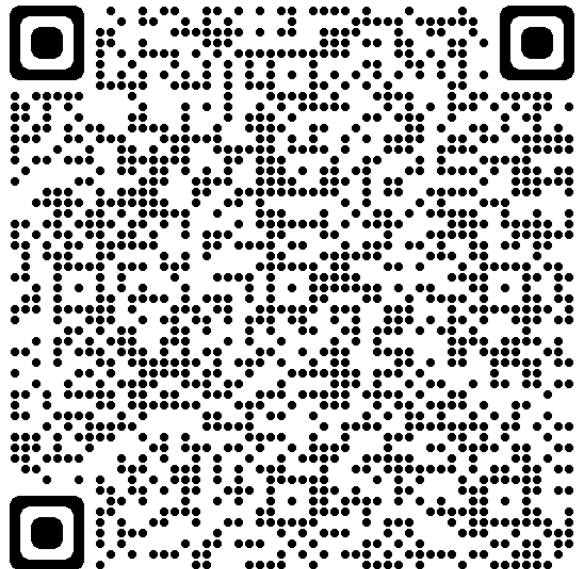
Course Duration/Training Hours: 500 hours including 400 Hours + 100 hours of Mandatory on the Job training

Trainee Qualification: Diploma (Government recognized 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) OR Certificate-NSQF (Level- 4 Technician - O&M CBG/WTE) with 3 Years of experience

Entry Age (Years): Minimum age: 20

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to access related content



33

Feedstock Manager - Procurement and Composition SGJ/Q0501 v1.0

NQR Code: [2022/WSSWM/SCGJ/05144](#)

DESCRIPTION

The Learner would analyze and manage the feedstock supply, standard and storage. S/he monitor resource mobilization and waste management, perform cost optimization and ensure compliance with Applicable Statutory Laws, Policies and Procedures.

Overview of Qualification

NSQF Level: 6

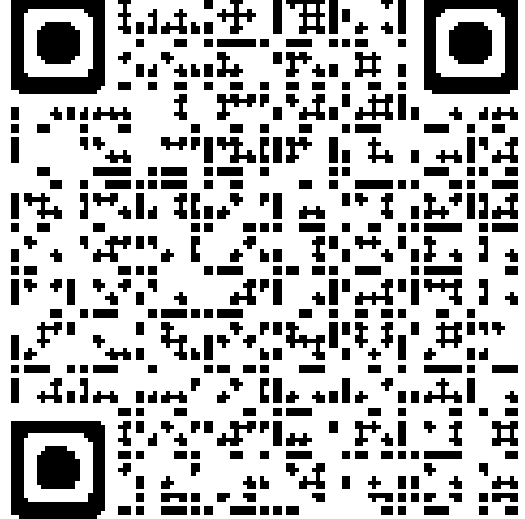
Course Duration/Training Hours: 600 hours

Trainee Qualification: Graduate with 3 Years of experience in the relevant field Or Diploma (Government recognized 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

Entry Age (Years): Minimum age: 24

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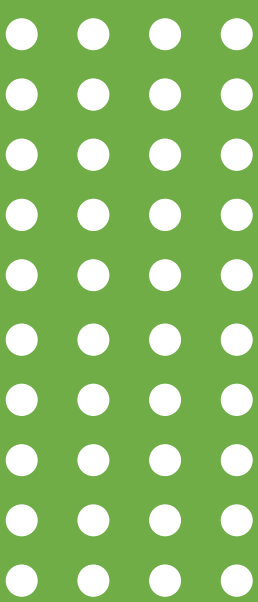
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Qualifications (Skill Course)

Biomass Management

Potential Job role



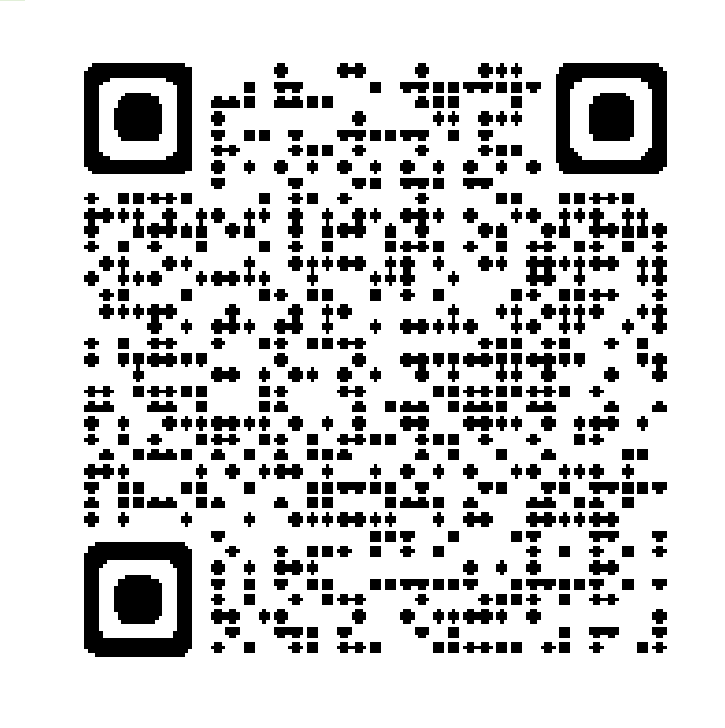
34

Agri-residue Aggregator SGJ/Q6201 v2.0
NQR Code: [2022/ES/SCGJ/06728](#)

DESCRIPTION

The Learner 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 low density bales. S/he would also perform sale of the bales based on end requirements.

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to access related content



Overview of Qualification

NSQF Level: 3

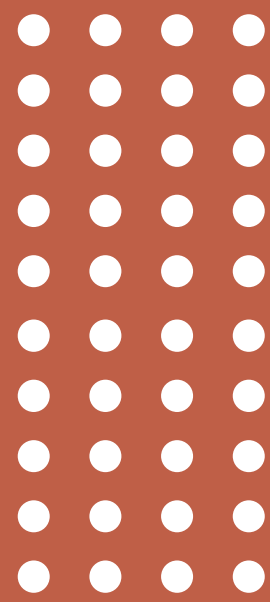
Course Duration/Training Hours: 330

Trainee Qualification: 10th Pass or Ability to read and write with 5 years of relevant experience

Entry Age (Years): Minimum age: 16

Qualifications (Skill Course)

Clean Cooking



35

Improved Cookstove Installer SGJ/Q2101 v2.0

NQR Code: [2022/ES/SCGJ/06019](https://nqr.gov.in/2022/ES/SCGJ/06019)

DESCRIPTION

The Learner 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.

Overview of Qualification

NSQF Level: 4

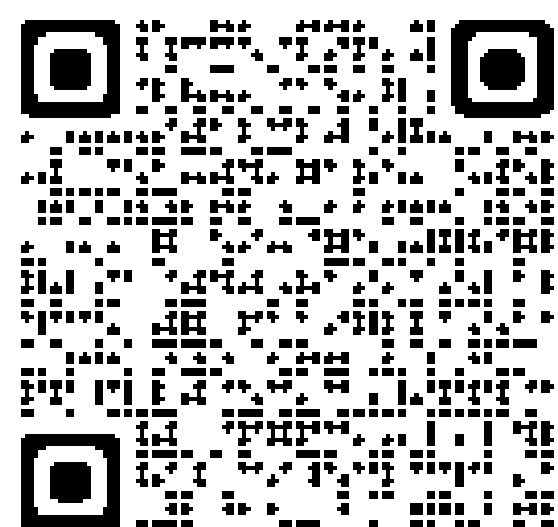
Course Duration/Training Hours: 390

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

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to access related content



36

Portable Improved Cookstove Assembler SGJ/Q2102 v2.0

NQR Code: [2022/ES/SCGJ/06018](https://nqr.gov.in/2022/ES/SCGJ/06018)

DESCRIPTION

The Learner would 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.

Overview of Qualification

NSQF Level: 3

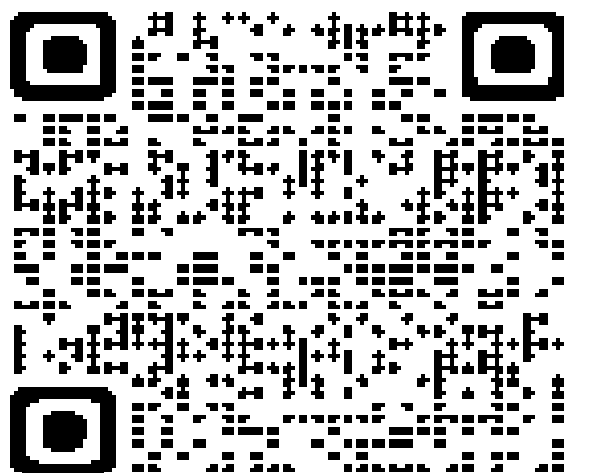
Course Duration/Training Hours: 330

Trainee Qualification: Ability to read and write with 5 years of experience

Entry Age (Years): Minimum age: 16

Scan QR Code

to access related content



37

Clean Cookstove Sales and Maintenance Executive SGJ/Q2104 v2.0
NQR Code: [2022/ES/SCGJ/06020](#)

DESCRIPTION

The Learner would be able to identify 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. S/he recognize 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.

Overview of Qualification

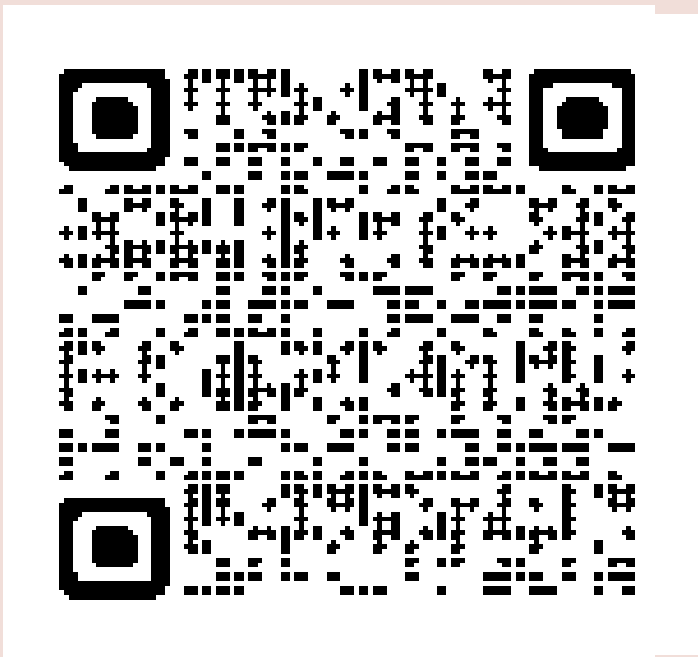
NSQF Level: 4

Course Duration/Training Hours: 390

Trainee Qualification: 10th Pass with 2 years of relevant experience or Certified Portable Improved Cookstove Assembler at NSQF level 3 with 1 year of relevant work experience

Entry Age (Years): Minimum age: 16

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38

Clean Cookstove Distributor SGJ/Q2105 v2.0
NQR Code: [2022/ES/SCGJ/06021](#)

DESCRIPTION

The Learner would be able to increase market share of 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. S/he would ensure statutory compliances and safety in operations.

Overview of Qualification

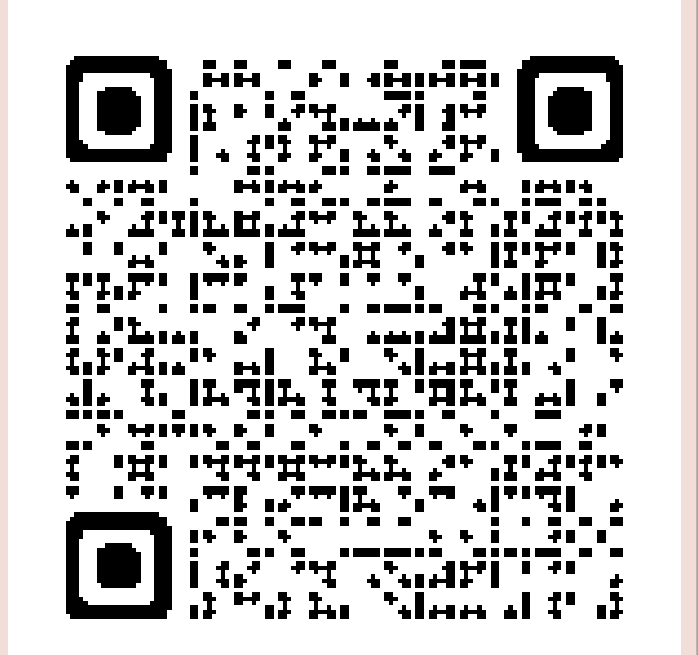
NSQF Level: 5

Course Duration/Training Hours: 480

Trainee Qualification: 12th Pass with 4 years of relevant experience/ Certified Clean Cookstove Sales and Maintenance Executive at NSQF level 4 with 2 years of relevant work experience/ Certified Improved Cookstove Installer at NSQF level 4 with 1 years of relevant work experience/ BBA with no experience/ Any graduate with 1 year of experience

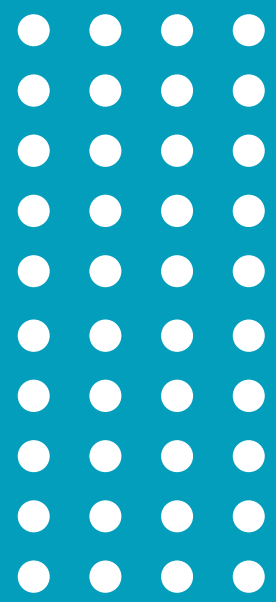
Entry Age (Years): Minimum age: 18

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Qualifications (Skill Course)

Waste water Management



39

Wastewater treatment plant technician SGJ/Q6601 v2.0

NQR Code: [2021/WSSWM/SCGJ/04274](https://www.ssgj.gov.sg/2021/WSSWM/SCGJ/04274)

DESCRIPTION

The Learner would be able to operate Wastewater Treatment Plant and other related equipment. S/He would be able to perform the operation and cleaning of different screens, valves in a Wastewater Treatment Plant and charge the slurry tank. S/He would be able to do add desired quantity of chemicals and microbes to treat water. S/He would also facilitate the calibration of process control equipment as needed.

Overview of Qualification

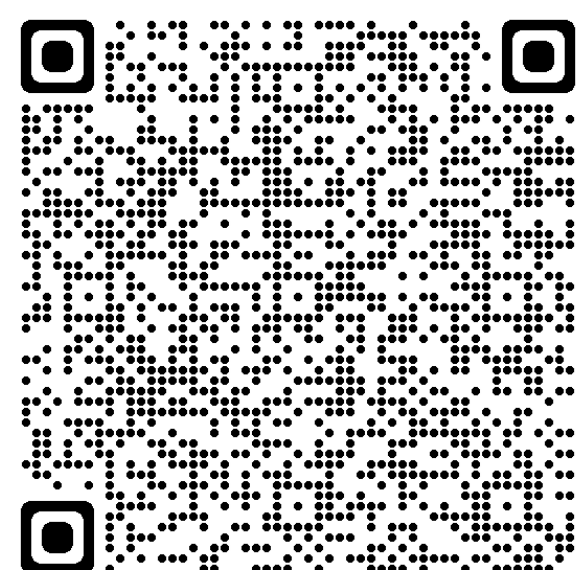
NSQF Level: 4

Course Duration/Training Hours: 200

Trainee Qualification: 12th Pass, 10th Pass + ITI/Diploma, 8th pass + 4 years of experience as Wastewater Treatment Plant Helper

Entry Age (Years): Minimum age: 18

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40

Wastewater treatment plant Helper SGJ/Q6602 v2.0

NQR Code: [2021/WSSWM/SCGJ/04275](https://www.ssgj.gov.sg/2021/WSSWM/SCGJ/04275)

DESCRIPTION

Learner 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.

Overview of Qualification

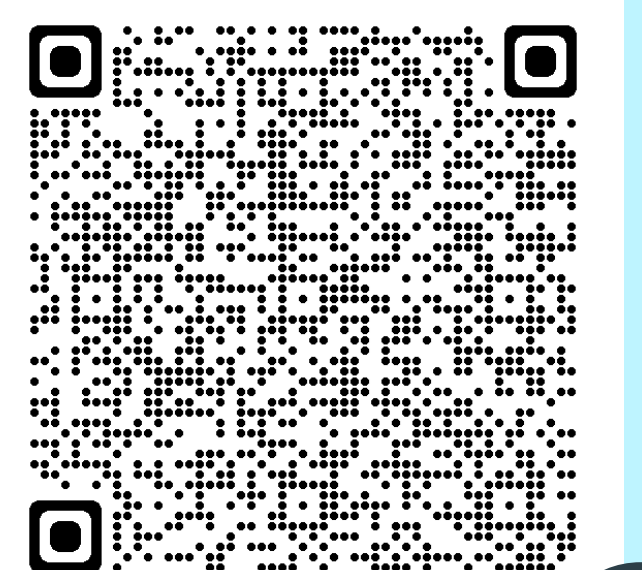
NSQF Level: 3

Course Duration/Training Hours: 160

Trainee Qualification: 8th pass

Entry Age (Years): Minimum age: 18

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DESCRIPTION

The Learner would be able to excavate, fabricate and install fixed septic tanks as per as per Central Public Health and Environmental Engineering Organization(CPHEEO) norms. S/he also able to install prefabricated septic tanks at the site(commercial/institutional/residential). He/ She also undertake the work of repair and maintenance of existing septic tanks.

Overview of Qualification

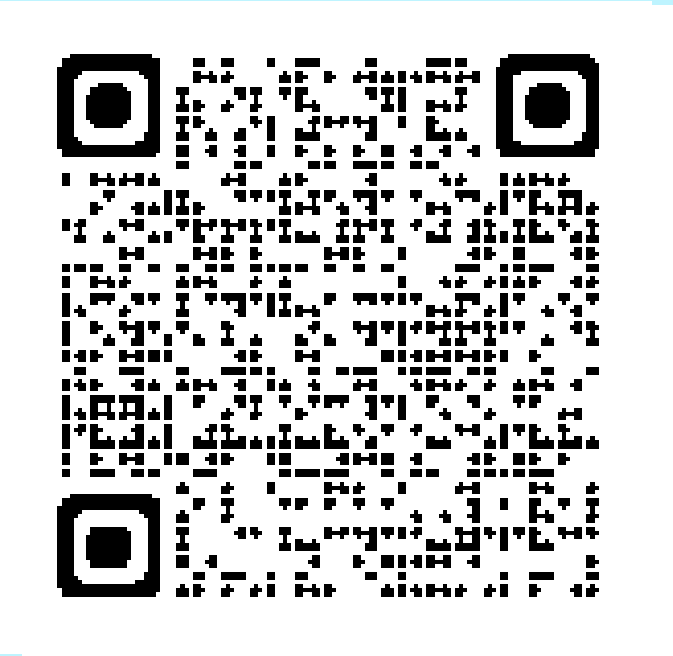
NSQF Level: 3

Course Duration/Training Hours: 390

Trainee Qualification: 5th Pass, Minimum experience of 3 year in masonry work

Entry Age (Years): Minimum age: 18

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DESCRIPTION

The Learner would carry out day-to-day operations of the FSTP. He /She would be able to identify repair and maintenance tools and equipment at FSTP and responsible for routine maintenance of pumps, engines, motors, filters, bar screens, valves, pipes, and any other equipment used in FSTP.

Overview of Qualification

NSQF Level: 4

Course Duration/Training Hours: 420

Trainee Qualification: ITI or Equivalent

Entry Age (Years): Minimum age: 18

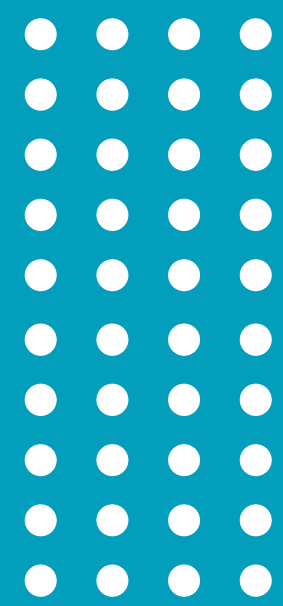
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Qualifications (Skill Course)

Waste water Management

Potential Job role



43

Desludging Operator SGJ/Q6403 v2.0

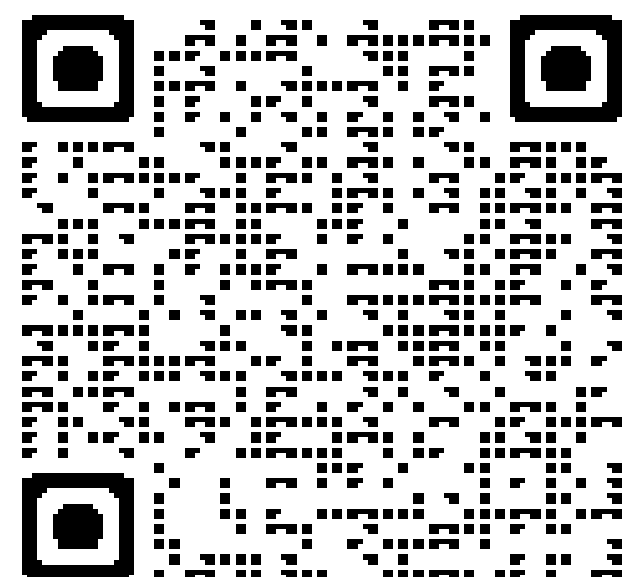
NQR Code: [2022/ES/SCGJ/06731](#)

DESCRIPTION

The Learner would be able to empty, transport and dispose faecal sludge from the septic tank to desludging site / Faecal Sludge Treatment Plant. He /She would demonstrate preventive maintenance and operate pumps, suction hoses and other machinery/equipment to empty the septic tank and appropriately dispose the sludge. As an entrepreneur he/she would venture into desludging services for managing Faecal Sludge.

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Overview of Qualification

NSQF Level: 3

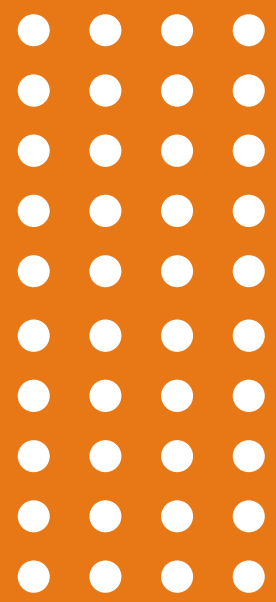
Course Duration/Training Hours: 360

Trainee Qualification: 5th Pass

Entry Age (Years): Minimum age: 18

Qualifications (Skill Course)

Sustainable Practices



44

Technician-Paper Bag Manufacturing SGJ/Q8701 v1.0

NQR Code: [2022/ES/SCGJ/06405](#)

DESCRIPTION

The Learner would make eyelets and fix the handle or paste paper twisted rope handle to manufacture the final product and suitably pack the finished product for dispatch to the customer. S/he would follow applicable safety standards and improve soft skills.

Overview of Qualification

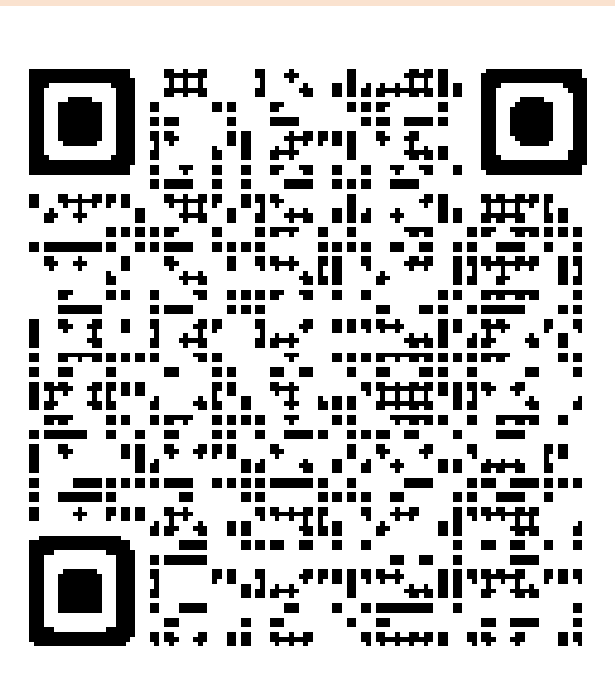
NSQF Level: 3

Course Duration/Training Hours: 360

Trainee Qualification: Ability to read and write

Entry Age (Years): Minimum age: 16

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45

Paper Bag Maker SGJ/Q8702 v1

NQR Code: [2022/ES/SCGJ/06406](#)

DESCRIPTION

The Learner 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 develop Entrepreneurship skills to acquire requisite infrastructure/land. S/he is also responsible for overall management, recruitment and sustenance of the business.

Overview of Qualification

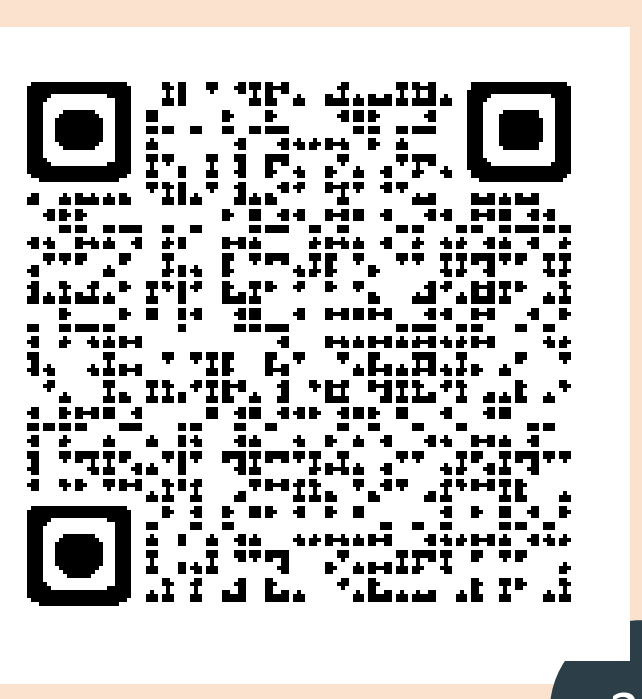
NSQF Level: 5

Course Duration/Training Hours: 420

Trainee Qualification: 8th Pass with 2 Years ITI program or 10th Class or Certified Paper Bag Technician with 3-5 Years of experience

Entry Age (Years): Minimum age: 18

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46

Junior Technician - Solar Cold Storage/Q4002NQR Code: [2022/ES/SCGJ/06459](https://www.es.gov.sg/2022/ES/SCGJ/06459)**DESCRIPTION**

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.

Overview of Qualification

NSQF Level: 3

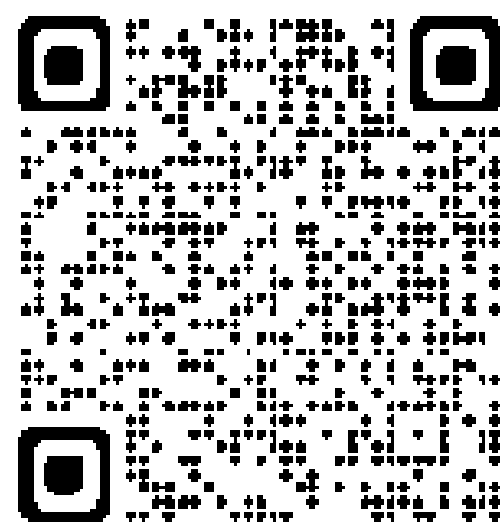
Course Duration/Training Hours: 330

Trainee Qualification: 8th Class Pass + NTC (2 years)

Entry Age (Years): Minimum age: 16

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47

Solar Cold Storage Entrepreneur SGJ/Q1802NQR Code: [2022/ES/SCGJ/06460](https://www.es.gov.sg/2022/ES/SCGJ/06460)**DESCRIPTION**

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.

Overview of Qualification

NSQF Level: 4

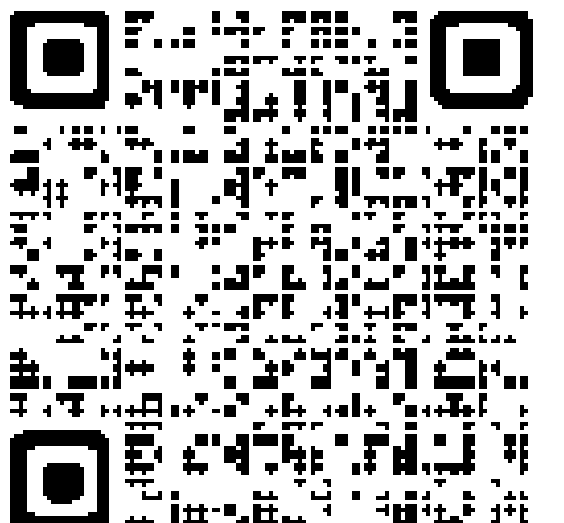
Course Duration/Training Hours: 390

Trainee Qualification: 10th pass

Entry Age (Years): Minimum age: 16

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48

Junior Technician - Rooftop Rainwater Harvesting SGJ/Q4003 v1.0NQR Code: [2022/POW/SCGJ/06463](https://www.es.gov.sg/2022/POW/SCGJ/06463)**DESCRIPTION**

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.

Overview of Qualification

NSQF Level: 3

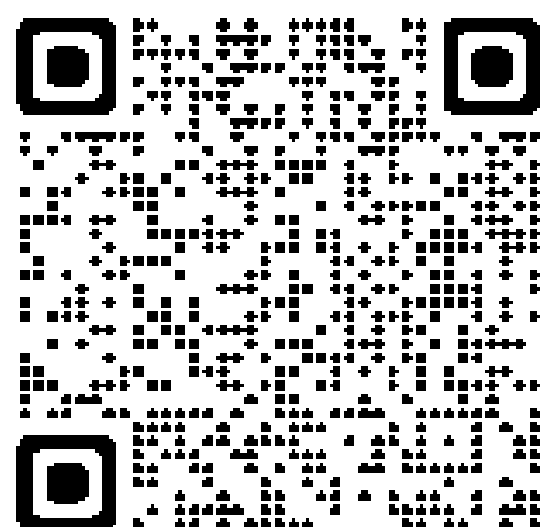
Course Duration/Training Hours: 330 hours

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

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49

Rooftop Rain Water Harvesting Entrepreneur SGJ/Q4101NQR Code: [2022/ES/SCGJ/06464](https://www.es.gov.sg/2022/ES/SCGJ/06464)**DESCRIPTION**

Rooftop Rainwater Harvesting Entrepreneur shall analyse key parameters for rain water harvesting system, estimate cost parameters and oversee its installation and maintenance.

Overview of Qualification

NSQF Level: 4

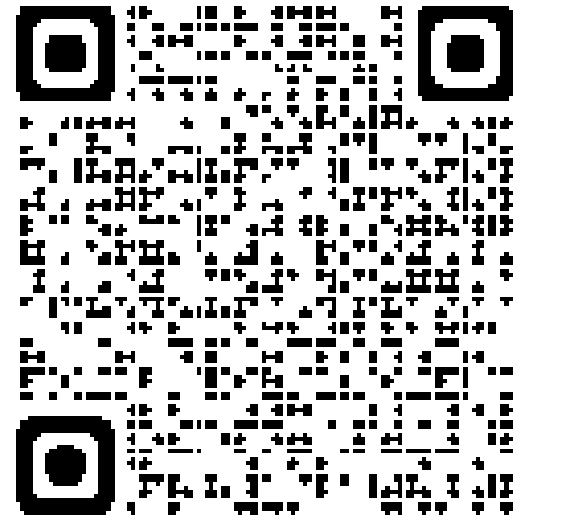
Course Duration/Training Hours: 420

Trainee Qualification: 10th Class Pass + NTC (1 year after Class 10th), with 1 year of relevant experience

Entry Age (Years): Minimum age: 16

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50

Green Hydrogen Plant Technician SGJ/Q0120

NQR Code: : [QG-04-ES-00146-2023-V1-SCGJ](#)

DESCRIPTION

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.

Overview of Qualification

NSQF Level: 4

Course Duration/Training Hours: 420

Trainee Qualification: Not Applicable

Entry Age (Years): Minimum age: 18

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51

Green Hydrogen Plant Entrepreneur SGJ/Q0121

NQR Code: [QG-05-ES-00145-2023-V1-SCGJ](#)

DESCRIPTION

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.

Overview of Qualification

NSQF Level: 5

Course Duration/Training Hours: 480

Trainee Qualification: 10th pass

Entry Age (Years): Minimum age: 18

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52

Junior Technician-Solar EV Charging Station SGJ/Q4001

NQR Code: [2022/POW/SCGJ/06461](#)

DESCRIPTION

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.

Overview of Qualification

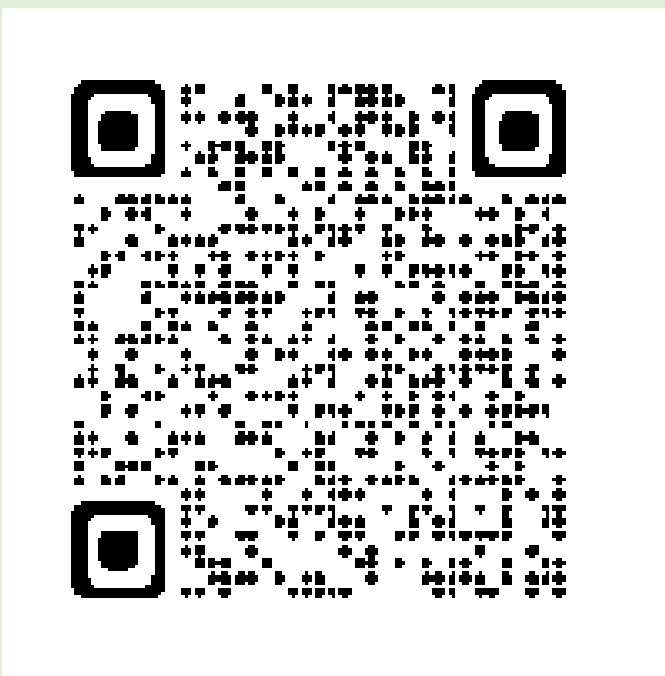
NSQF Level: 3

Course Duration/Training Hours: 330 hours

Trainee Qualification: 8th Class Pass + NTC (2 years)

Entry Age (Years): Minimum age: 16

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53

Solar EV Charging Entrepreneur SGJ/Q1801

NQR Code: [2022/ES/SCGJ/06462](#)

DESCRIPTION

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 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.

Overview of Qualification

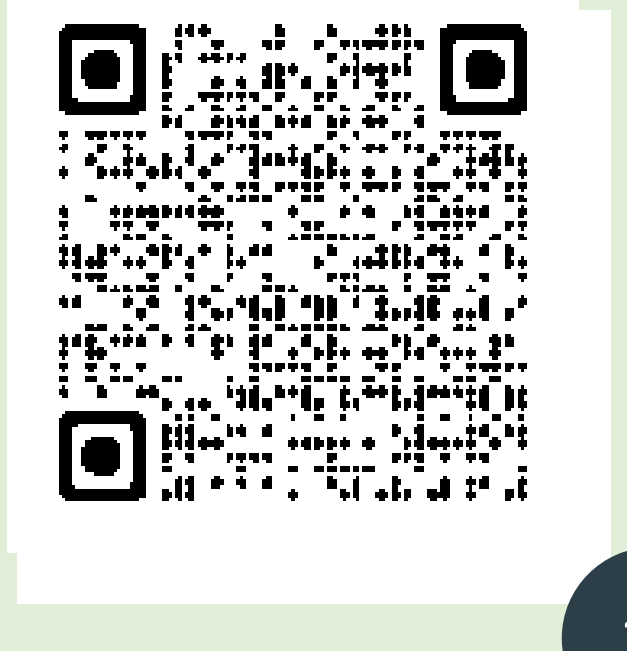
NSQF Level: 4

Course Duration/Training Hours: 390

Trainee Qualification: 10th Pass with 2 years of experience
or NSQF Level 3 certified Agri Residue Aggregator with 1 year of suitable experience

Entry Age (Years): Minimum age: 16

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SCGJ e-learning Management System (SEMS) | www.sems.training

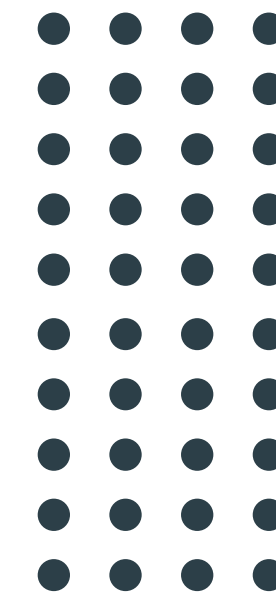
An initiative of Skill Council for Green Jobs to facilitate online skill activities in the Green Jobs sector by aggregating all its partners on a single digital platform and then making learning activities accessible to all candidates across India.

Build skills with online training & certificates from experts in green energy sector.

Scan QR Code
to learn from SEMS



Learn from content on
SCGJ YouTube Channel



Key Highlights

01

Online Trainings

Dedicated portal to put information about your online trainings supported by SCGJ. TPs can spread awareness about innovative e-learning initiatives (webinars etc.)

02

Candidate Mobilization

Option for candidates to register in your e-learning activities from SEMS portal. Candidates can view Training partner details (website) before registering.

03

MCQ Tests

Feature for TPs to create online MCQ test for each e-learning activity. Option for candidates to attempt assessment test and view their result.

04

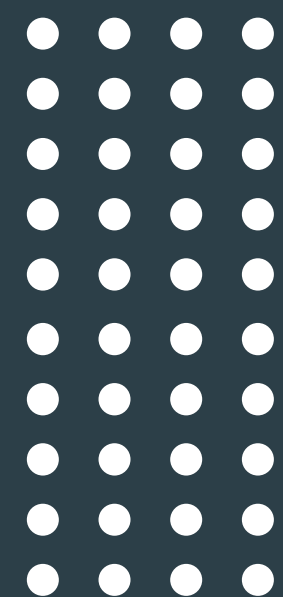
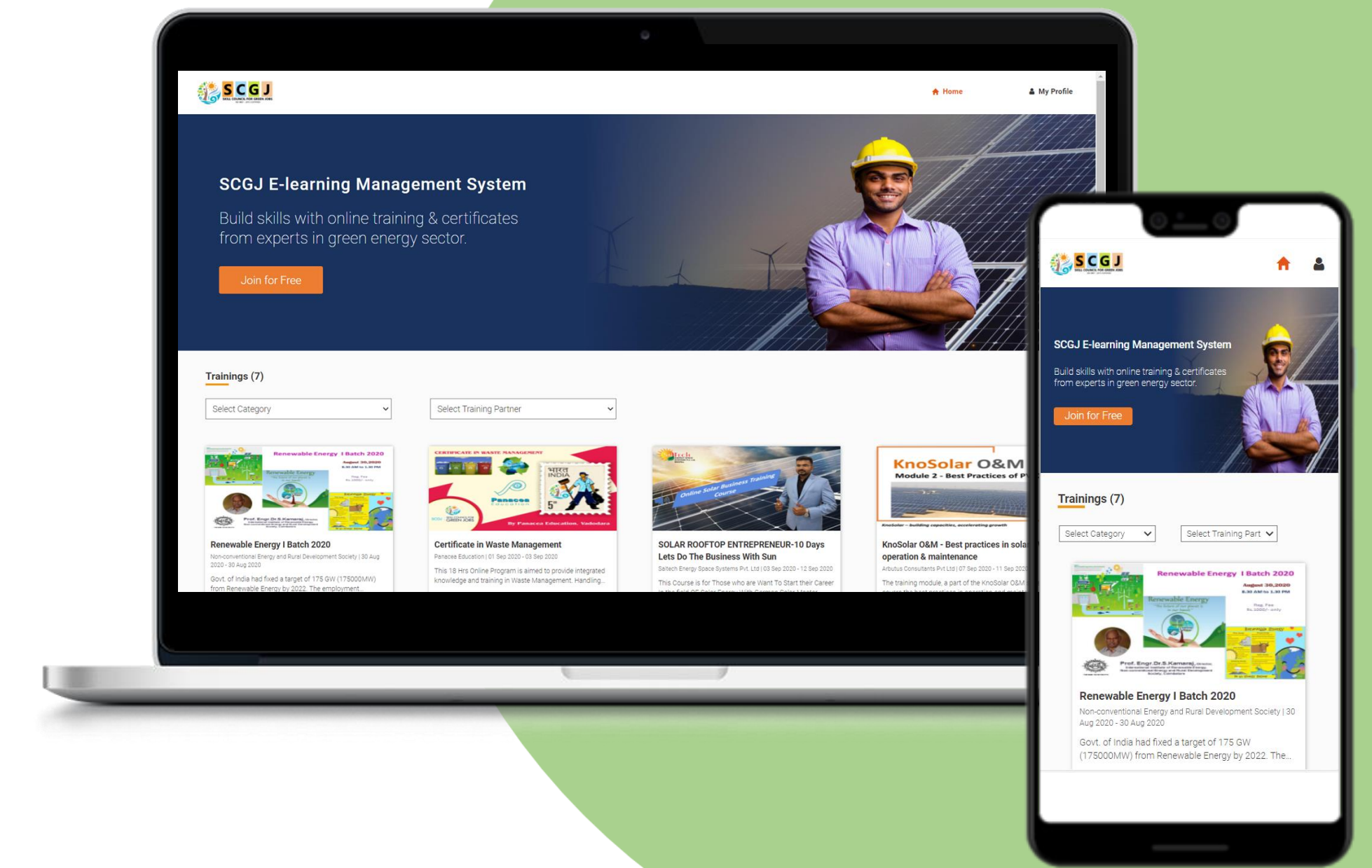
Online Training Certificate

Instant certification generation for candidates who clear assessment. Study resources related to e-training can be made accessible to students.

05

Communication Interface

Interface to interact with SCGJ for all TOT programs conducted online. Personalized TP Dashboard to monitor self performance.



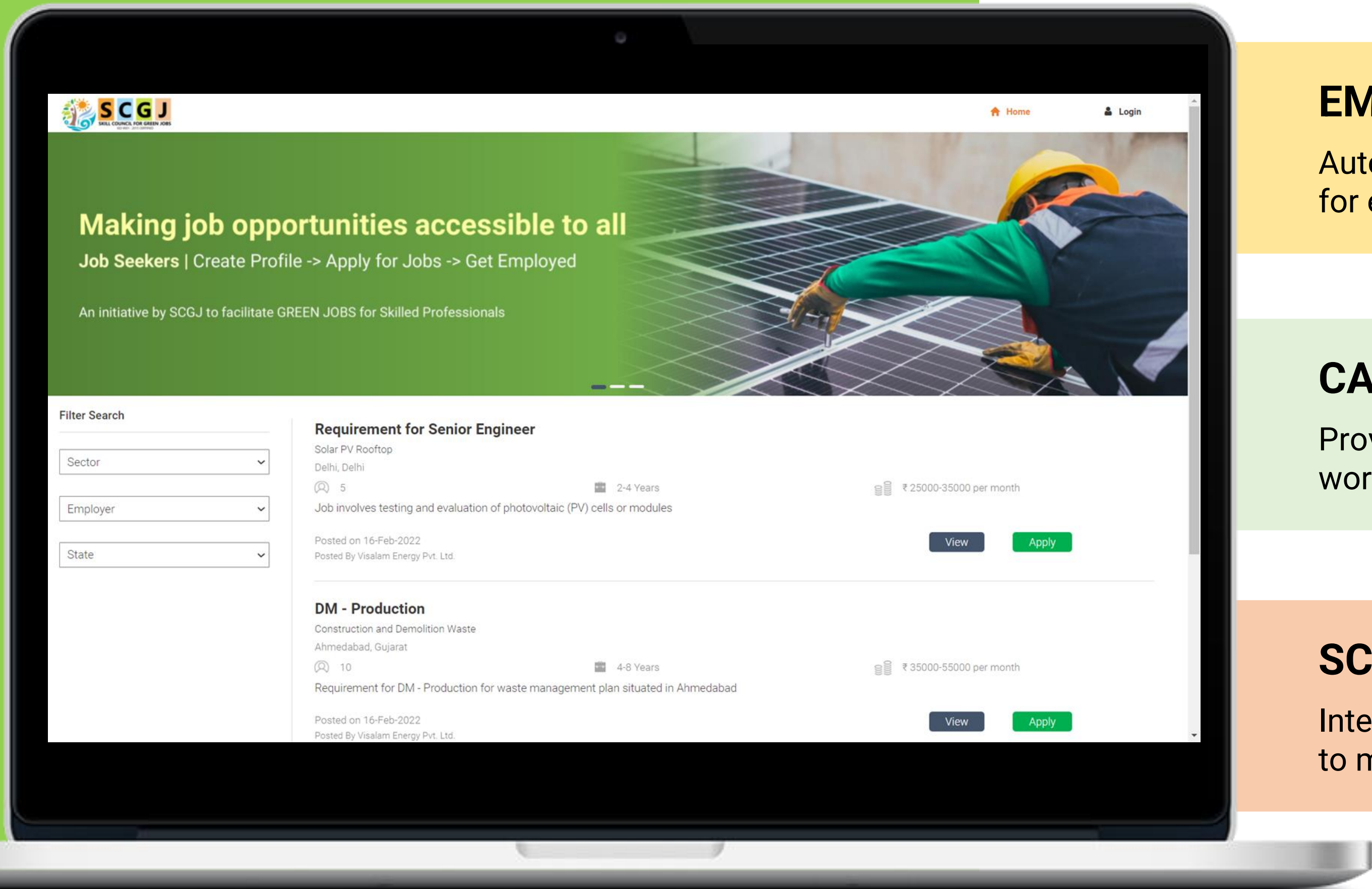
SCGJ Rozgar Portal | www.scgjrozgar.in

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.

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.

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

Scan QR Code to visit Rozgar Portal



EMPLOYER

Automates talent acquisition process for employers



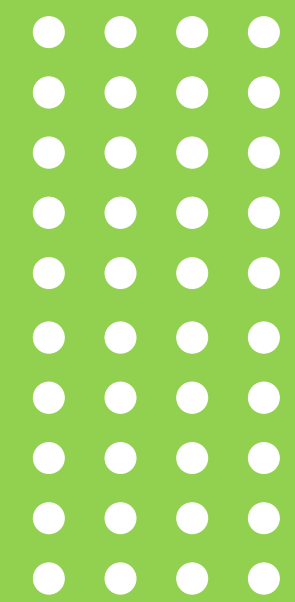
CANDIDATE

Provides job opportunities to skilled workforce in green energy sector



SCGJ ADMIN

Interventions in skill development activities to meet industry needs





Skill Council for Green Jobs

3rd Floor, CBIP Building, Malcha Marg,
Chanakyapuri, New Delhi - 110021

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