

# SKILL COUNCIL fc GREEN JOBS

Autonomous Body under the aegis of Ministry of Skill  
Development and Entrepreneurship

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SCGJ

SKILL COUNCIL FOR  
GREEN JOBS

## Integrating Solar from Buildings to Cities



# Background

- Government created Department of Skill Development and Entrepreneurship on 31<sup>st</sup> July 2014 which was converted to a Ministry of Skill Development and Entrepreneurship on 16<sup>th</sup> April 2015.
- Ministry launched Skill India agenda in Mission Mode to provide the overall institutional framework to rapidly implement and scale up skill development efforts across India.
- As per the NSSO data only 4.69% of India's total workforce is formally skilled as compared to 68% in UK, 75% in Germany, 52% in USA, 80% in Japan and 96% in South Korea.

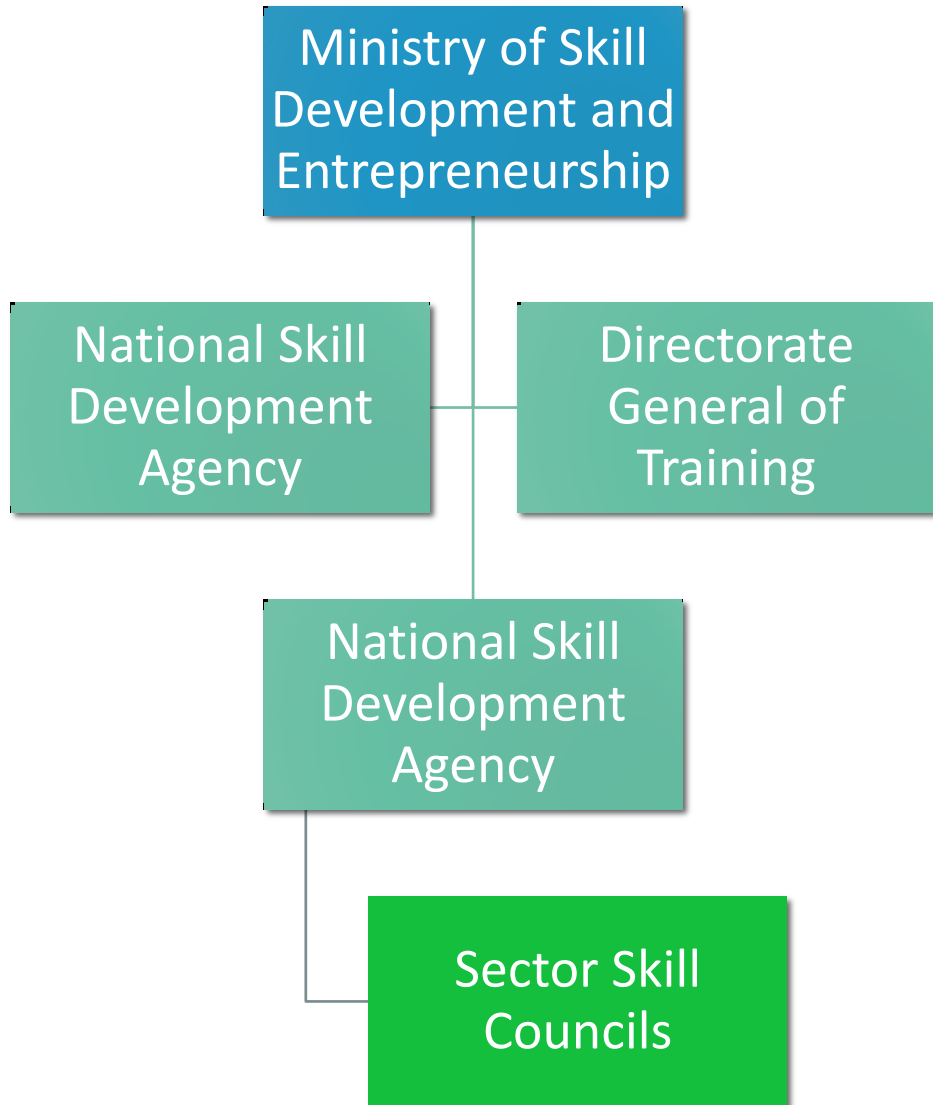




*“Today, the world and India need a skilled workforce. If we have to promote the development of our country then our mission has to be ‘skill development’ and ‘Skilled India’. Millions and millions of Indian youth should acquire the skills which could contribute towards making India a modern country. I also want to create a pool of young people who are able to create jobs and the ones who are not capable of creating jobs and do not have the opportunities, they must be in a position to face their counterparts in any corner of the world while keeping their heads high by virtue of their hard work and their dexterity of hands and win the hearts of people around the world through their skills. We want to go for the capacity building of such young people. My brothers and sisters, having taken a resolve to enhance the skill development at a highly rapid pace, I want to accomplish this.”*

*Honorable Prime Minister of India  
Shri Narendra Modi*

# Skill Ecosystem














# SKILLS COUNCIL FOR GREEN JOBS (SCGJ)

## SECTORS COVERED


### Renewable Energy

-  1. Solar PV
-  2. Solar Thermal
-  3. Wind
-  4. Small Hydro
-  5. Biomass Power / Cogen / CHP
-  6. Energy Storage
-  7. Biofuels, Biogas, Pellets / Briquettes
-  8. Clean Cook Stoves


### Green Construction

-  9. Green Construction
  - (a) Green Buildings
  - (b) Green Campuses


### Green Transportation

-  10. Green Transportation
  - (a) Electric Vehicles
  - (b) Bio fuels vehicles
  - (c) Bio-CNG vehicles

### Carbon Sinks

-  11. Carbon Sinks
  - (a) Afforestation
  - (b) Sustainable Forestry Management

### Water Management

-  12. Water Management
  - (a) Treatment  
Energy Recovery + Re-use  
Sewage / Industry Effluents
  - (b) Conservation :  
Water harvesting  
Check Dams,  
Micro-irrigation

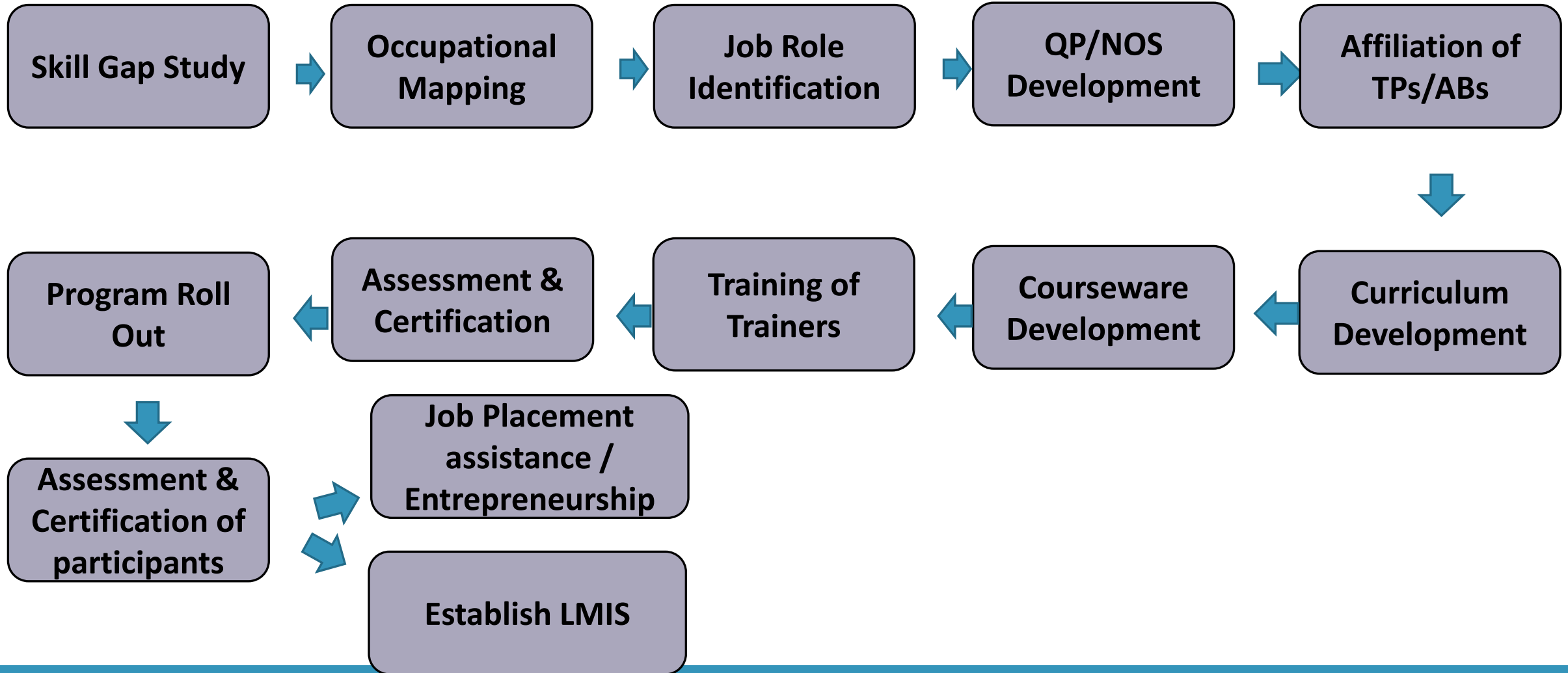
### Waste Management

-  13. Solid Waste Management
  - (a) Municipal
  - (b) Manure & Agri Residues
-  14. Electronic Waste Management

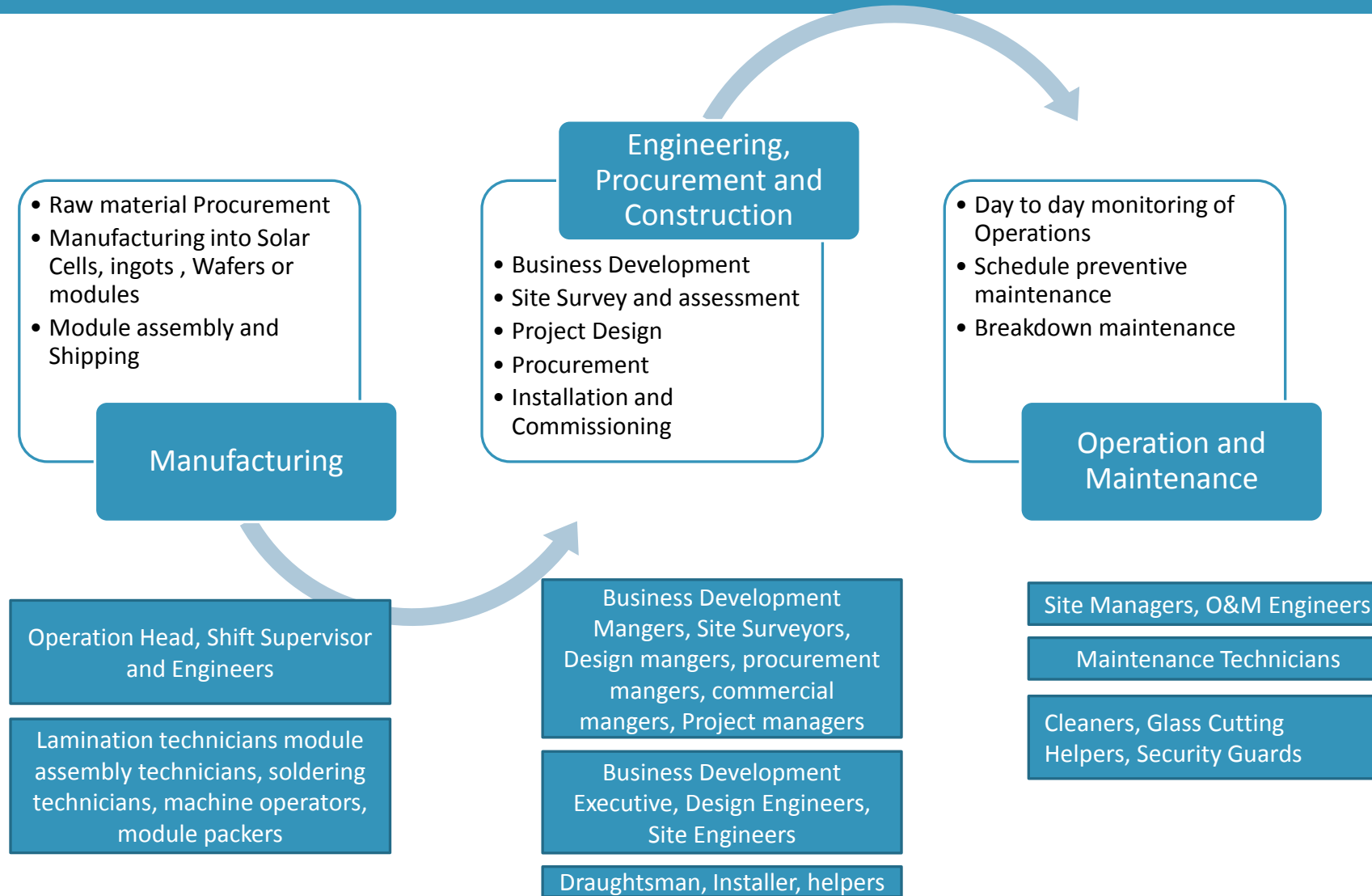
# Working Strategy of SCGJ



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# Solar PV : Value Chain









# Green Construction



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Stage	Steps	Job Roles
Site Selection	Project feasibility analysis & Environment assessment	Project Manager, Architect, Environmental Consultant, Structural Engineer, Land Surveyors
Designing	Sustainable Site Design	Environmental Consultant, Green Building Consultant, Landscape Architect, Structural Engineer
	Building & systems design Energy	MEP Specialist, Green Building Consultant, Structural Engineer, Fenestration Designer, Project manager
	Sustainable Landscape Design	Electrical Engineer, Architect, Green building consultant, Landscape Architect, Plumbing Specialist
Pre-construction	Soil Conservation	,Green Building Consultant, Environmental Consultant, Landscape Architect, Architect, Project manger
	Green Material/ Product – Supply Chain	Project manager, Procurement & Quality control Manager, Marketing & Finance Executive, CRM, Transport Supervisor, Driver, Warehouse Supervisor, Inventory Control technician, Production worker, Production Helper, Sn.Manager- Sales & Marketing, Manager - Sales & Marketing, AM- Sales, AM-Marketing, Sales Executive, Market Analyst
	Manufacturing of green products/ material	Production Workers, Processing supervisors, Quality Assessment & Quality control Expert
	Financial Support	Technical Head - Green Construction Financing, Technical Manager - Green Construction Financing, Credit Head, Lawyer - Green Constructions Financing

# Green Construction



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Stage	Steps	Job Roles
Construction	Sedimentation and erosion control	Architect, Landscape architect, Project Manager
	Waste management on site	Project manager, Green Building Consultant
	Civil Construction & installation	Architect, Structural Engineer, Contractor, Construction Manager (Contractor side ), Project Manager (Developers side) , Site Supervisor, Mechanical Engineer, Electrical Engineer, MEP Specialist
System Commissioning	System Commissioning	Project Manager
Interiors & External Development	Interior Planning & Designing	Architect, Green Building Consultant, MEP Specialist
	Green material and Products , procurement and installation	Green Building Consultant, Painter
	installation	Carpenter, Electrician, Welders
	External Development	Landscape Architect, Electrical Engineer, Project Manager, Plumbing specialist
Operation & Maintenance (O&M)	Waste management	Refuse and recycle material collector, Project Manager, Green Building Consultant, Facility Manager
	Water management	Operator –Utilities, Project Manager, Green Building Consultant, Facility Manager
	HVAC maintenance	Green Building Consultant
	Compliance Monitoring	Facility Manager, Green Building Consultant, Energy Auditors
	Certification and renewal of certification	Building Consultant

# Qualification Packs Developed by SCGJ

SCGJ has developed the following Qualification Packs

Sl. No.	Name of QP	QP Code	NSQF Level
1	Solar PV Installer – Suryamitra	SGJ/Q0101	4
2	Solar PV Installer – Electrical	SGJ/Q0102	4
3	Solar PV Installer – Civil	SGJ/Q0103	4
4	Wastewater Treatment Plant Technician	SGJ/Q6601	4
5	Wastewater Treatment Plant Helper	SGJ/Q6602	3
6	Fixed type Improved Cookstove Installer	SGJ/Q2101	4
7	Solar Photovoltaic Rooftop Entrepreneur	SGJ/Q0104	6
8	Solar Proposal Evaluation Specialist	SGJ/Q0105	7
9	Rooftop Solar Grid Engineer	SGJ/Q0106	5
10	Recyclable Waste Collector and Segregator	SGJ/Q6101	4

# Our Industry Connect

Industries as  
Members

• 7

Industries on  
Advisory Body

• 6

Industries on  
Governing  
Council

• 8

Industry  
Associates

• 63

Industries  
Connected to  
review  
standards

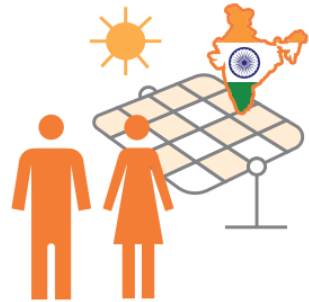
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# Trainings So far....

## CLEAN ENERGY CREATES JOBS FOR INDIA

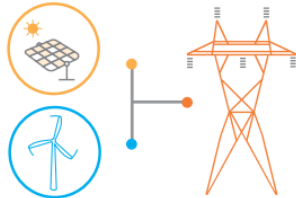
Clean energy = full-time employment. Tens of thousands of Indian citizens are employed by clean energy industries, directly and indirectly. This is great news for India's growing population and workforce.



Between 2011 and 2014

**24,000**

full-time jobs were generated through solar photovoltaic (PV) projects alone.



Grid-connected solar and wind energy is estimated to have created nearly **70,000** full-time jobs in India so far.

If India achieved its target of **100 gigawatts (GW)** of installed solar energy by **2022**

as many as **1,000,000** full-time jobs would be created.





# Thank You



Hands on Training on Installation of Grid Connected 1KW Solar Panel by Suryamitras at the Roof of NPTI, Durgapur

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