

MARKET FACTS

SOLAR POWER GENERATION LANDSCAPE IN INDIA

The enabler for India's renewable generation till last mile & its ecosystem tracked....

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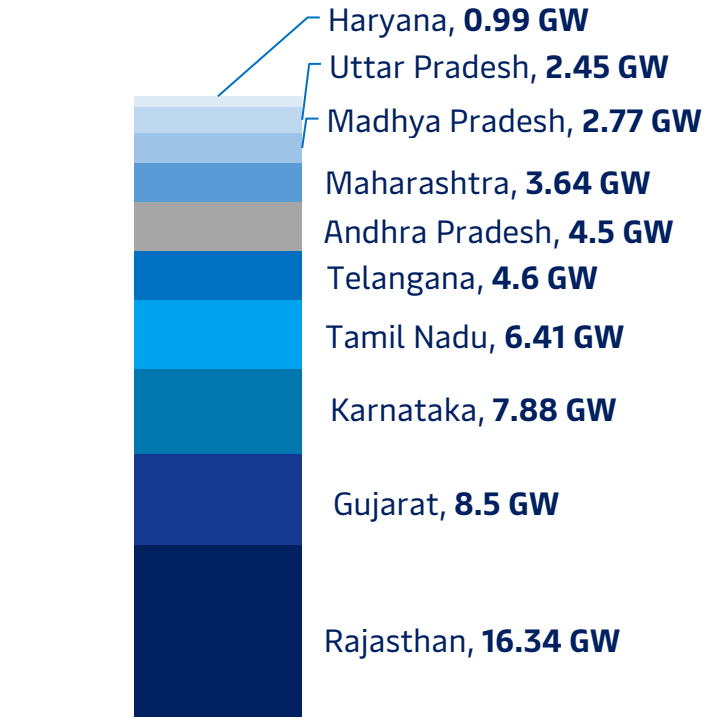


GENERATION FACTS

Solar Power Installed Capacity

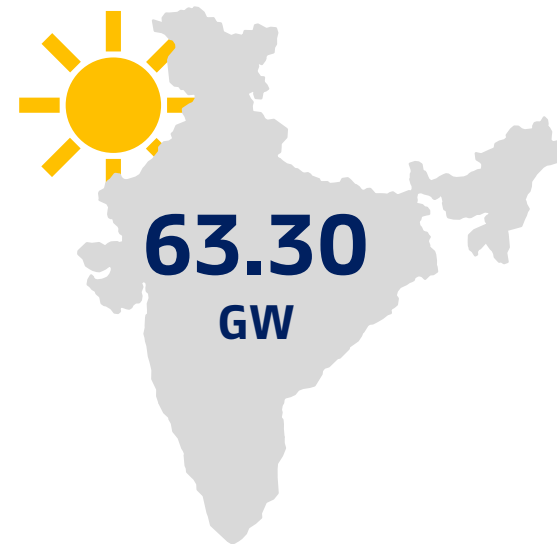
Rajasthan leads the installed capacity with over **16 GW** base followed by **Gujarat & Karnataka** with **8.5 GW** and **7.9 GW** installed capacity respectively

Installed Capacity – Top 10 States (GW)*



India – Solar Power Installed Capacity (GW)*

*As of January 2023



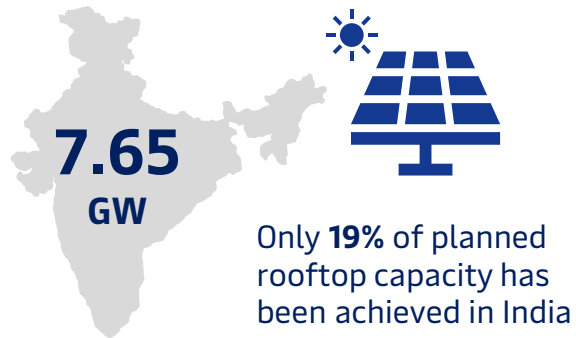
Source: EI Projects Monitor

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Solar Rooftop Promotion

19% of the solar rooftop planned capacity has been achieved in India with **7.65 GW** installed as against planned capacity of **40 GW**

Installed Capacity – India Rooftop Solar (GW)*



*As of January 2023

Net metering up to **500 kW** or up to sanctioned load, whichever is lower in case of RTS is allowed

Phillip to Rooftop Solar – Government Side



Latest Drivers

- Launch of **Rooftop Solar Programme phase II with CFA** for residential sector and incentives in slabs for the DISCOMs for achievement of additional RTS Capacity
- Launch of **National Portal where residential consumers** from any part of the country can apply for installation of RTS and subsidy will be directly credited into their bank account under the Programme.
- Applicability of **CFA for RTS plants under Virtual Net Metering** for a group of residential consumers in rural areas.
- Development of **online portals at DISCOM level** and aggregation of demand relating to RTS projects..
- Preparation of **model MoU, PPA and Capex Agreement** for expeditious implementation of RTS projects in Government Sector.
- Facilitation of concessional loans from multilateral agencies such as the **World Bank**.

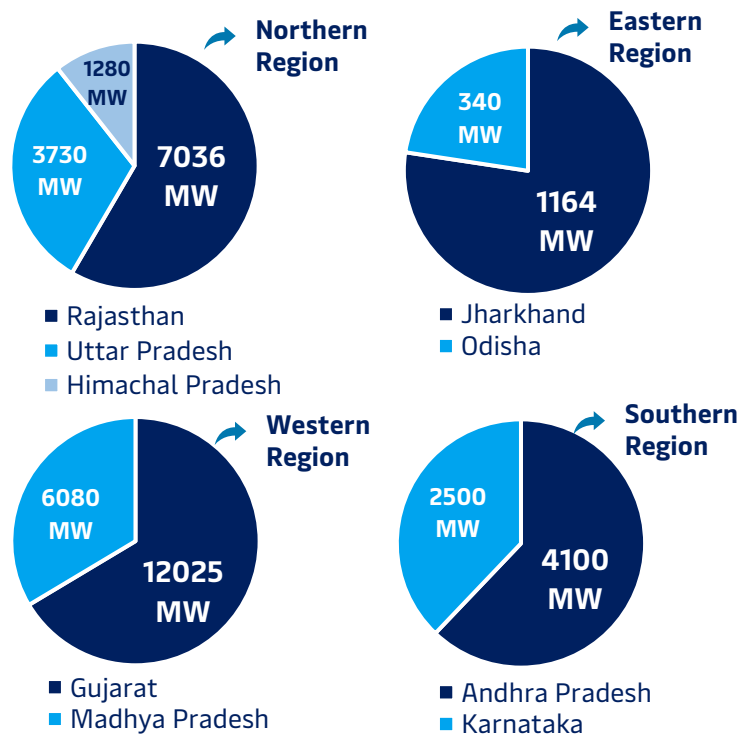
Source: EI Projects Monitor & Omnicoreplus

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Solar Parks – Status Quo

57 Solar Parks with an aggregate capacity of **39.25 GW** is approved under “Development of Solar Parks & Ultra Mega Solar Projects” in India

Approved Capacity – Solar Parks in India (MW)*



Solar Parks with over 1 GW Capacity (GW)*



8 Solar Parks have > 1 GW Capacity, Totaling 16.58 GW

*As of January 2023

Top Solar Parks in India	
Solar Park	Capacity (MW)
NTPC RE Park , Gujarat	4750 MW
GSECL RE Park, Gujarat	3325 MW
Pavagada Solar, Karnataka	2000 MW
Ananthapuramu -1, AP	1400 MW
Morena Solar Park, MP	1400 MW
RVUN Park, Rajasthan	1310 MW
GIPCL RE Phase 2, Gujarat	1200 MW
Jalaun Solar Park, UP	1200 MW

Source: EI Projects Monitor

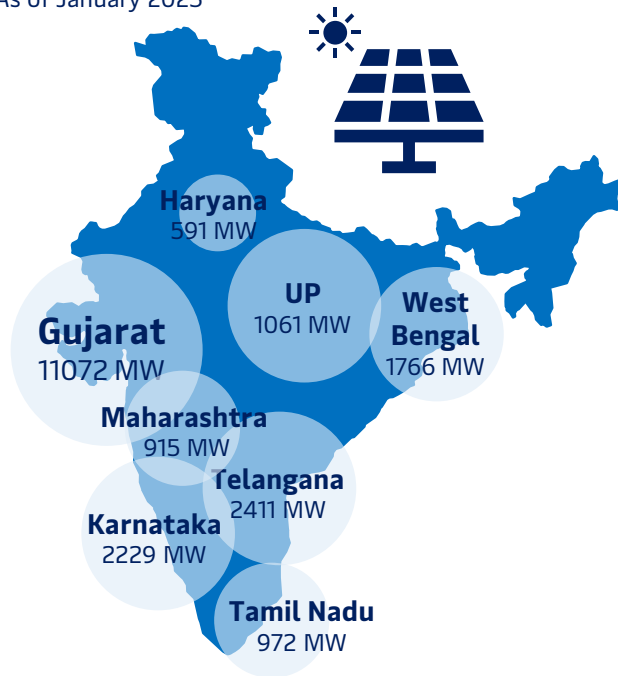
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Solar PV Module Manufacturing

21.68 GW/annum of installed Solar PV Module Manufacturing as per ALMM List

Solar PV Module Manufacturing Capacity (MW/Annum)*

*As of January 2023



Top OEMs Manufacturing Solar Modules (MW/Annum)*

Top Solar OEMs in India	
Solar OEM	Capacity (MW/Annum)
1. Waree Energies Ltd.	4750 MW
2. Vikram Solar Ltd.	2022 MW
3. Goldi Solar Pvt. Ltd.	1537 MW
4. Premier Energies Ltd.	1193 MW
5. Mundra Solar Pvt. Ltd.	1100 MW
6. Tata Power Solar System Ltd.	798 MW
7. RenewSys India Ltd.	750 MW
8. Rayzon Solar Pvt. Ltd.	706 MW
9. Jakson Engineering Ltd.	583 MW
10. Saatvik Green	510 MW

Source: EI Projects Monitor

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Solar Pumps & PM-KUSUM

500408 Solar Pumps on standalone basis have been installed in India & **0.64 MTs CO₂** emission reduction achieved through **PM-KUSUM**

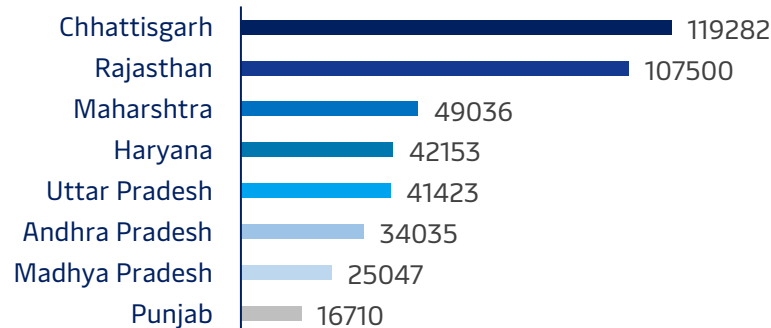
Solar Pumps Installed – Standalone Basis (Nos.)*



182363 farmers benefitted under PM-KUSUM *As of January 2023

947 MW has been added under PM-KUSUM for both Components B & Component C

Solar Pumps Installed – Standalone Basis



CO₂ Emissions Reduction under PM-KUSUM – Top States ('000 Tonnes/Annum)*

Top States Under PM-KUSUM	
State	CO ₂ Emission Reduction
1.Rajasthan	272.09
2.Haryana	149.61
3.Maharashtra	74.40
4.Punjab	33.21
5. Himachal Pradesh	32.49
6. Madhya Pradesh	21.52
7. Uttar Pradesh	20.46
8.Tamil Nadu	8.15
9. Gujarat	4.70
10.Odisha	2.19

Source: EI Projects Monitor

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at connect@eninrac.com
+91 93190 48963/47963, +91 72900 16953