The vision of Hon. Prime Minister

- Net zero by 2070
- 50% Energy through Renewable sources by 2030

The Largest Distributed Solar Deployment Program (16GW)

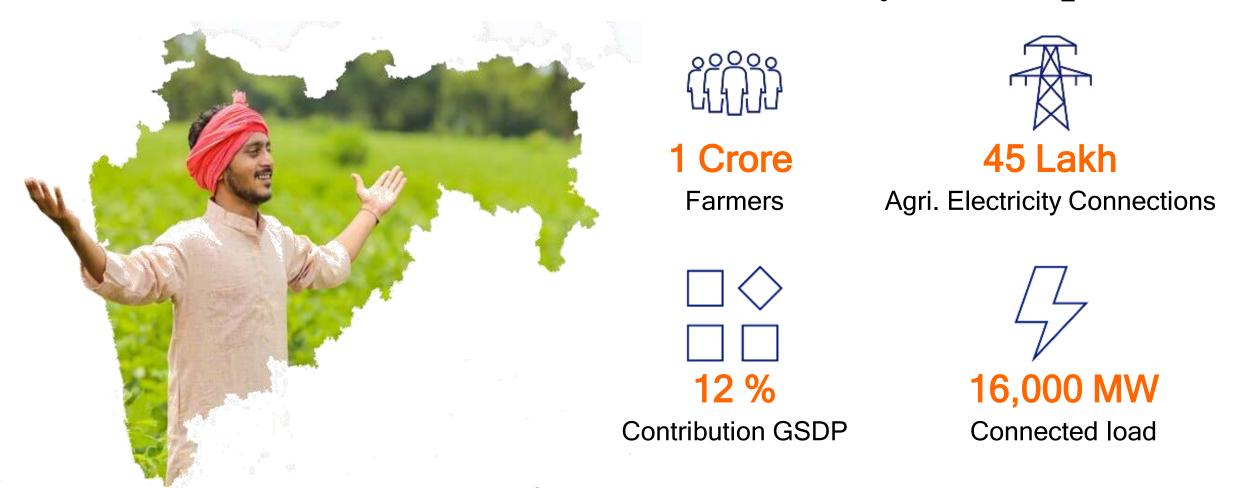
Under PM-KUSUM

(Mukhyamantri Saur Krushi Vahini Yojana – 2.0)

Presentation by -Lokesh Chandra (IAS) Chairman & Managing Director, MSEDCL



Maharashtra is home to more than 1 Crore farmers, who contribute to 30% of the state's electricity consumption



Maharashtra has the highest Agriculture demand in India (39,000 Mus)

Agriculture sector highly subsidized & the Major cause of Revenue losses to Discom

Mission 2026 for Solarisation of 30% Ag. Feeders and commissioning of 16,000 MW Solar Capacity



Reduction in cost of supply to agricultural and cross-subsidy burden on Industries



Investment of Rs. 65,000 Crore across various districts in Maharashtra



Daytime
Electricity
supply to
farmers and
agriculture



Over 70,000
rural jobs and development of solar ecosystem and skills



Contribution to national and state solar targets, CO2 emission saving

5 Major Challenges addressed through Design Reengineering

Small Project Size

Cluster based approach (200-250 MW -50 MW)

Economics of
Scale for Solar
Power
Developer

Land Availability

Identification of Govt. land within 5-10 km radius from of 33/11 KV Sub-Station.

40,000 Acres
Govt. Land
identified in 3
months.

PM GATI
SHAKTI & other
IT Portals.

Delay in Permissions / NoCs

- Advance Clearance
- Advance Grid Connectivity

Availability to Developers at a Room With

No Data

Data Room With GIS Layered details of each land parcel

Geo Tagged Substations & land parcel details

Delay in Payments to SPDs

- Creation of revolving fund mechanism
- Provision for Deemed Generation
- Nodal Agency to extend payment security

Provision of Rs.100 Cr / 1000MW from Green Cess Fund

More than 6,000
NoCs and Grid
Connectivity
Permissions

Permissions issued.

Reengineering of Processes in 4 Major Steps

New Transactional Structure

- Formation of Maha Agro Solar Company
- 22 SPVs Created

Ease of Doing Business

- Exclusive single window portal & access to data room to SPDs
- From award of work to real time monitoring of Generation through SCADA will be from single window portal.

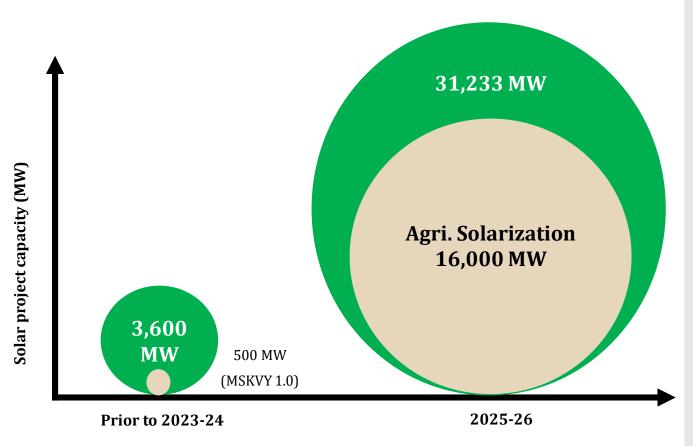
Tagging of Projects with PM - KUSUM C

- In order to avail 30% CFA (Central Finance Assistance)
- Rs. 3500 Cr CFA approved, Rs. 3800 Cr in Process

State Incentives

- Land Lease rent fixed @ Rs. 125000/ Hectare with 3% increase per year (For Private Land)
- Social Development Grant to Gram Panchayat @Rs.5Lakh per year for 3 years
- System Strengthening Grant @ Rs. 25 Lakhs per Substation (One Time)
- Production Incentive for early commissioning @ 25 Paisa/ Unit at 11 KV and @
 15 paisa per unit at 33 KV (for 3 years)

16,000 MW Solar Capacity awarded in 10 months and work started



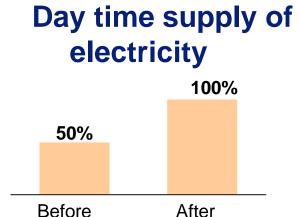
- Transparent e-bidding process.
- Cater to 100% of agriculture demand across
 27 districts in the state
- ➤ 100% Capacity i.e. 16,000 MW has been awarded, 2921 sub-stations, 40 lakh pumps
- Avg. tariff discovered Rs.3.06/kWh
- All regulatory approvals in place alongwith tariff adoption.
- Capacity commissioned 1,625MW, Substations 309, feeders 1034, 4.04 Lacs pumps
- Balance capacity will be commissioned upto September 2026 in phased manner.

Solar energy capacity of Maharashtra will be >8 times of the present solar capacity in next 15 months

PM-KUSUM C / MSKVY 2.0 : Game Changer for all stakeholders



Reliable power supply at desired voltage level





Additional income

1.25L per Ha per annum
from leasing of non-fertile land





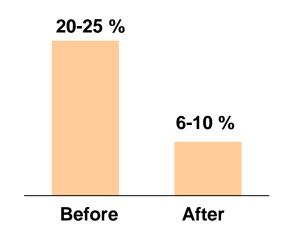
Increased Participation of women workforce

Due to day-time availability of power

>20 Lakhs women benefitted

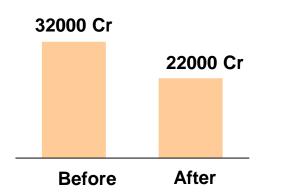
PM-KUSUM C / MSKVY 2.0 : Game Changer for all stakeholders



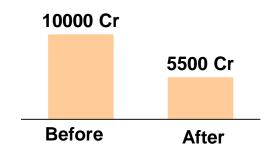


Savings of Rs.10,000 Cr. In

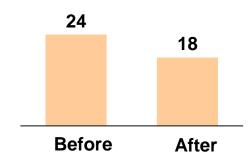




Reduction in annual Govt. subsidy to the tune of Rs.4500 Cr.

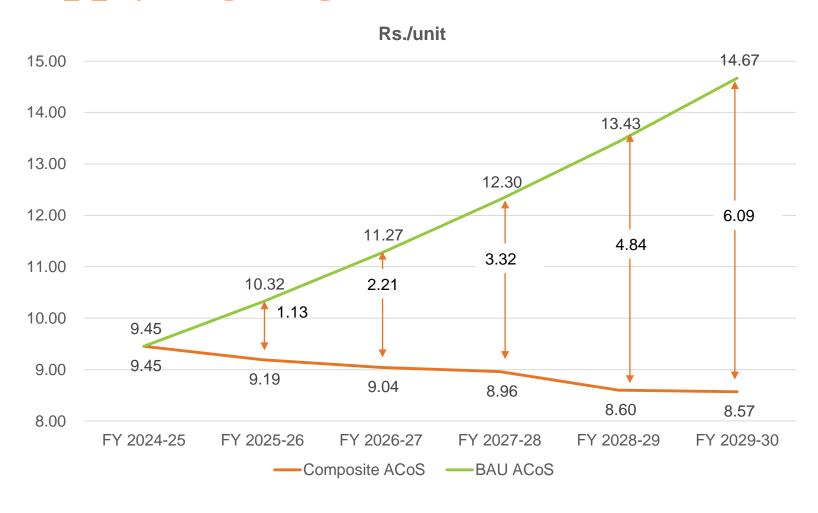


25% reduction in Green House Gas emissions (MtCO2e)



Cross-subsidy reduction on account of Rs. 1-1.5/kWh tariff reduction for commercial and Industrial consumers

Impact on Tariff: First time in the history of MSEDCL Average cost of supply is going down



- MSKVY 2.0 and high RE integration in total power purchase reduces total power purchase cost.
- 2. In case of BAU, ACoS increases by CAGR of 9.19 % while actual CAGR is -1.94%
- 3. This also includes recovery of past period gap of Rs 33,689 Cr as tariff increase was not allowed in FY 2023-24
- 4. Overall saving due to RE power is Rs 66,000 Cr in next 5 years



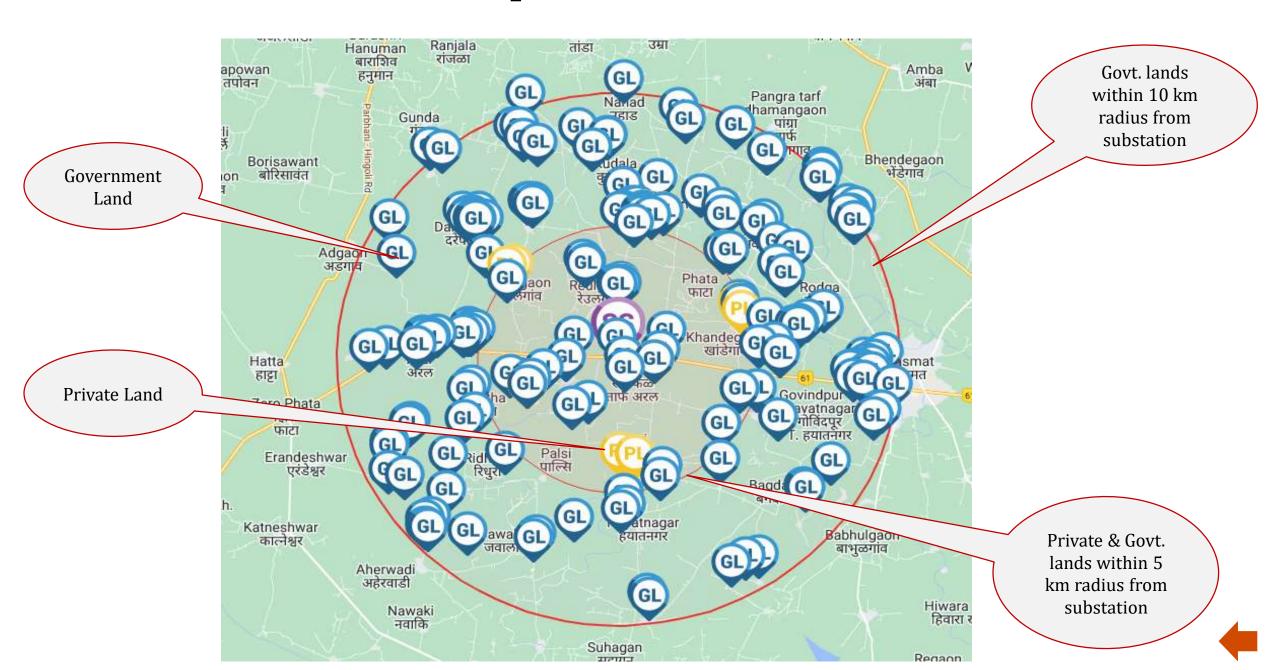




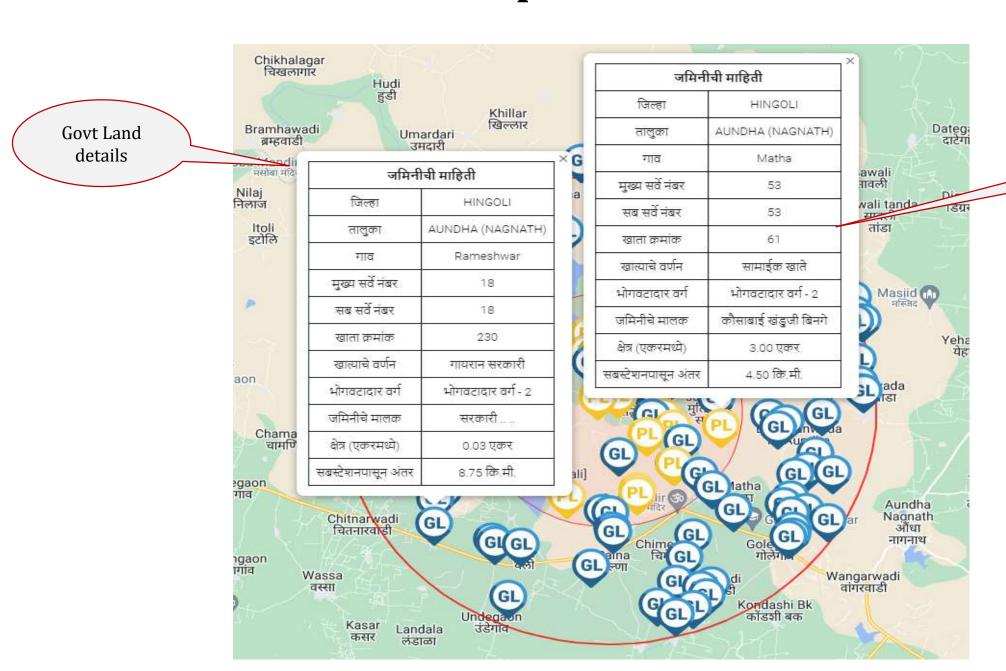
Thank You



View on Map - Govt & Private Lands



View on Map – Govt & Private Lands



Private Land details



Capacity addition is planned meticulously considering Cost Optimization (From 36 GW to 81 GW)



16.60 GW of distributed Agri-solar (MSKVY 2.0) at average tariff Rs. 3.07/kWh



28 GWh of PSP storage at average tariff Rs. 3.2/kWh



11.45 GW of utility-scale solar at average tariff Rs. 2.7/kWh
Solar (5 GW) + Thermal (1.6 GW) at average tariff Rs. 4.08/kwh



1.5 GWh of battery storage at average tariff of Rs. 2.19 Lakh/month/MW



4.3 GW of solar-wind hybrid at average tariff Rs. 3.6/kWh



1.5 GW of round-the-clock FDRE at average tariff Rs. 4.6/kWh

Renewable Energy procurement share in installed capacity (MW) increases from **29%** to **61%** and in terms of energy (MUs) from **13%** to **49%**.

Maharashtra has pioneered the largest distributed solar deployment in India with huge success of PM KUSUM C (Mukhyamantri Saur Krushi Vahini Yojana 2.0)

2,006 **District** 1,692 Wise 1.343 LoA's ,083 826 739 669 643 603 issued 396 370 369 357 339 337 328 299 299 276 245 241 207 (MW) Yavat... Dhara. Buldha. Nandu. Jalgaon Dhule Sangli Nanded Beed arbhani Nashik Pune Latur Satara Jalna Amravati Kolhapur Hingoli Nagpur Akola Washim Gondiya

Maharashtra has pioneered the largest distributed solar deployment in India with huge success of PM KUSUM C (Mukhyamantri Saur Krushi Vahini Yojana 2.0)

District Wise Installed Capacity (MW)

