Government of Maharashtra

Maharashtra Renewable Energy & Energy Storage Policy 2025-26 to 2035-36

Powering Viksit Maharashtra 2047 through Green Energy

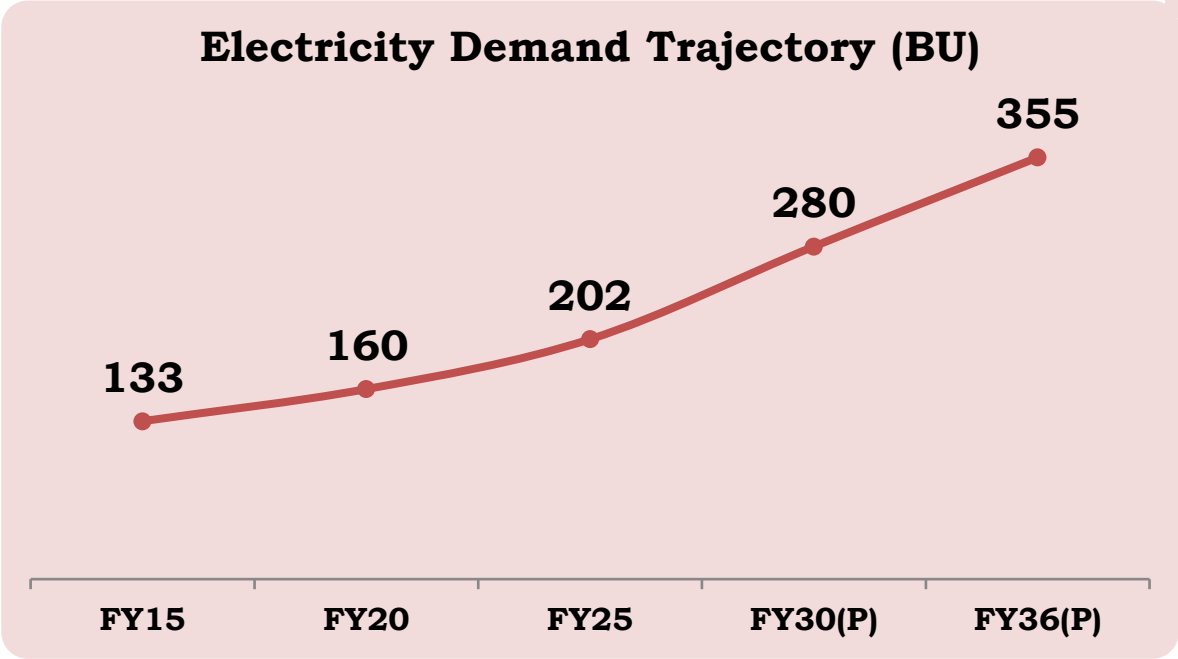
Presentation by: Abha Shukla IAS, ACS (Energy)

April 30, 2026

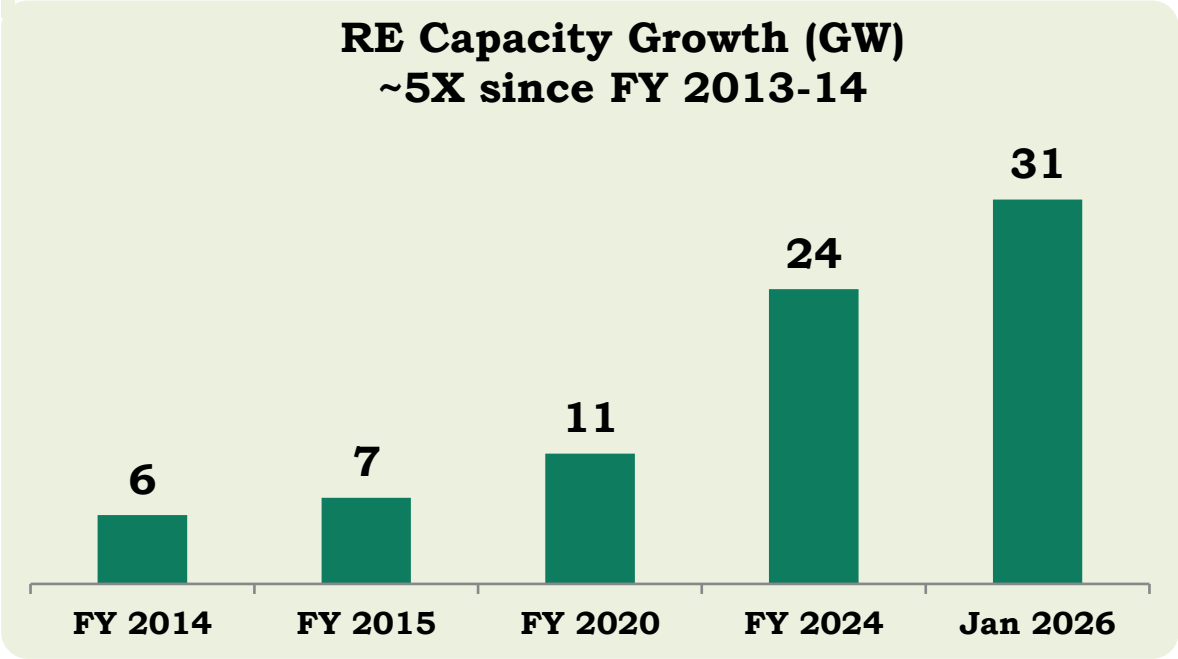
Government of Maharashtra

Maharashtra witnessing Exponential Growth in Energy Demand

(52 % Demand Growth)



RE Capacity has Risen 5 Times Since 2014



Major Contributors

5.5 GW

Rooftop Solar (Mar 2026)

5 GW

MSKVY 2.0 Distributed Solar

9.2 L+

Off-Grid Solar Pump Installation -1st in country & GWR

RE Capacity has Grown by ~5x during FY14 to FY26; While Total Capacity has grown by 2x

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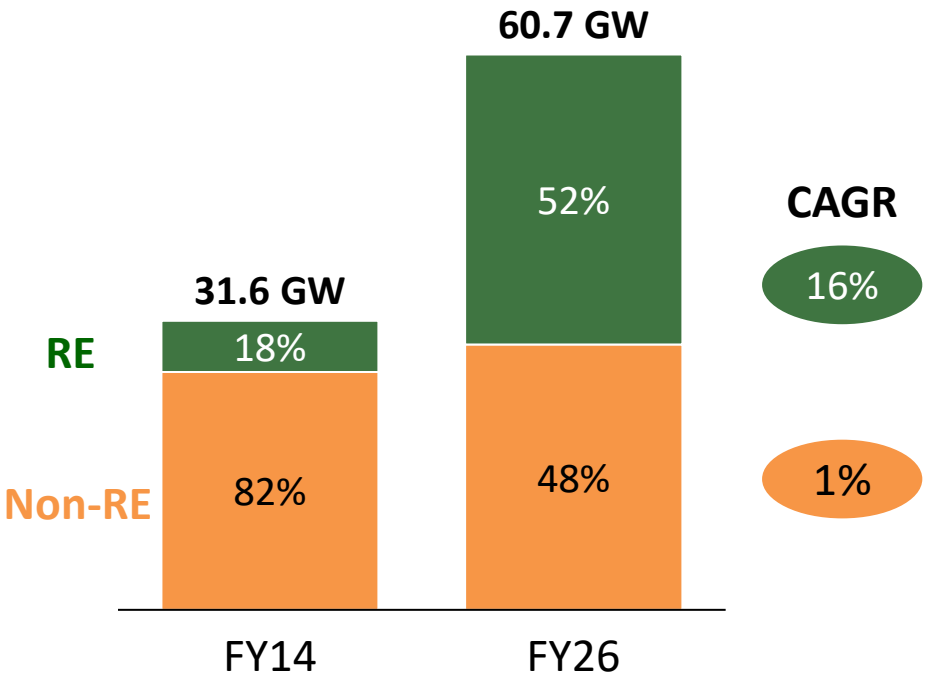
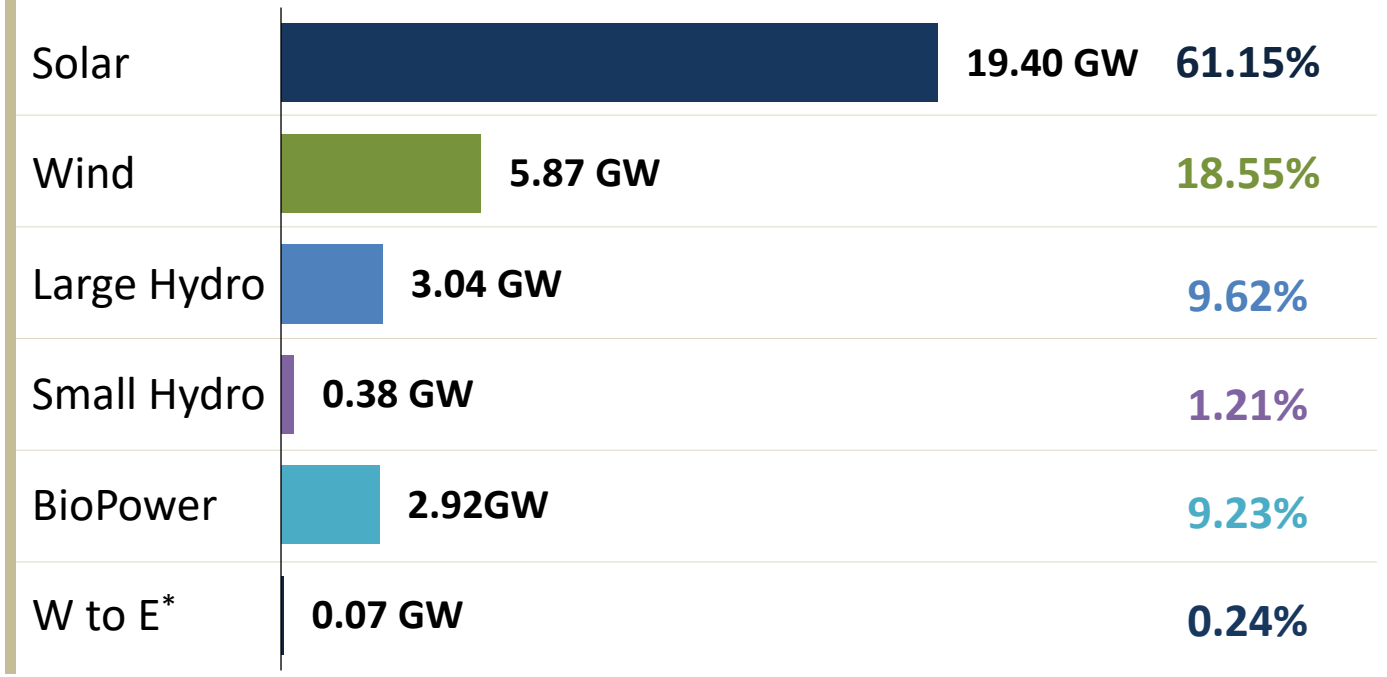
Growth in Installed Capacity (GW)



Breakdown of RE Capacity (GW)



Growth in RE in Maharashtra is Led by Solar

* Waste to Energy

Accelerated Capacity Expansion to System Absorption; Integration of RE with the Grid is a Major Challenge

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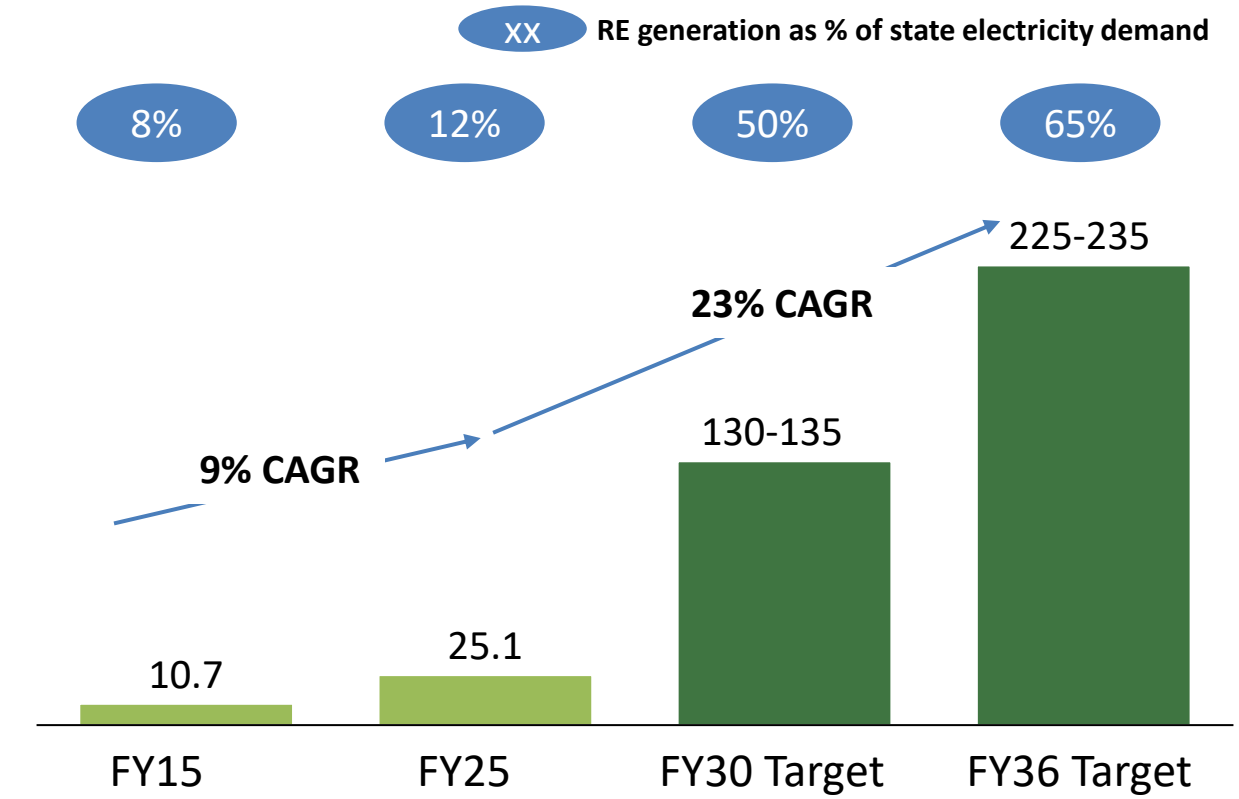
RE generation (BU, FY15-FY36 Target)



Policy Interventions are Main Growth Drivers

- MSKVY* 2.0 (Flagship Program of GoM)
- Pumped Storage Policy, 2023
- Green Hydrogen Policy, 2023
- Small Hydro Projects Policy, 2024
- Electric Vehicles Policy, 2025

Key Achievements

- 16 GW+ distributed solar contracted under **MSKVY 2.0** and 30%+ projects completed
- Maharashtra is No. 1 in Off-grid solar installation (~65% Solar pumps of the Country are in Maharashtra);
- No. 1 in India in **RTS installation** during Oct'25-Feb'26; 2nd in cumulative installation

Integrated policy approach is needed to enable next phase of Maharashtra's energy transition

MSKVY : Mukhyamantri Saur Krushi Vahini Yojana

Design Principles Shaping Policy Approach

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Shift form simple capacity targets to systemic holistic framework that prioritizes grid resilience, economic equity and environment harmony.

Strengthen momentum

Accelerate pace of transition in electricity sector

Long term clarity

Provide integrated long-term vision with near term policy certainty

Unlock investment

Address policy bottlenecks to spur investment

Enabling framework

Drive sector development through enabling framework, rather than financial incentives, with flexibility for further detailing as needed

Stakeholder management

Balanced approach across utilities, project developers, investors and consumers

Future readiness

Prepare sector for the future through knowledge, data, institutions and innovation

Vision and Policy Goals

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Vision

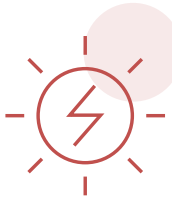
Significantly increase the generation and consumption of low cost, eco-friendly grid-connected renewable energy and energy storage in Maharashtra over the next decade

- Affordability
- Energy Security
- Competition
- Consumer Choice

Policy goals FY'2036

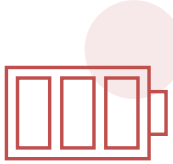
65%

of State Electricity Demand from Renewable Energy and 10% Energy Storage



100 GW

of Renewable Energy



100 GWh

of Mix Energy Storage

Inclusive & People Centric Transition

Ready for Next Big Leap

Guiding Strategies to Achieve Policy Goals

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1 Ambitious Long-term RE Targets

65% RE & 10% ESO by FY'35-36; ESS critical for reliable integration

2 Hybrid Projects & Energy Storage

Mandatory storage with new RE

3 Transmission & Land Enablement

REIZs, grid modernization, HTLS

4 Competition & Consumer Choice

Green OA from 100 kW, net-billing

5 Ease of Doing Business

Single window, simplified processes

6 Institutions & Innovation

R&D centre, skill building, pilots

STRATEGY 1:

Clear Long-term Trajectory for RE Targets and Policy Guidelines

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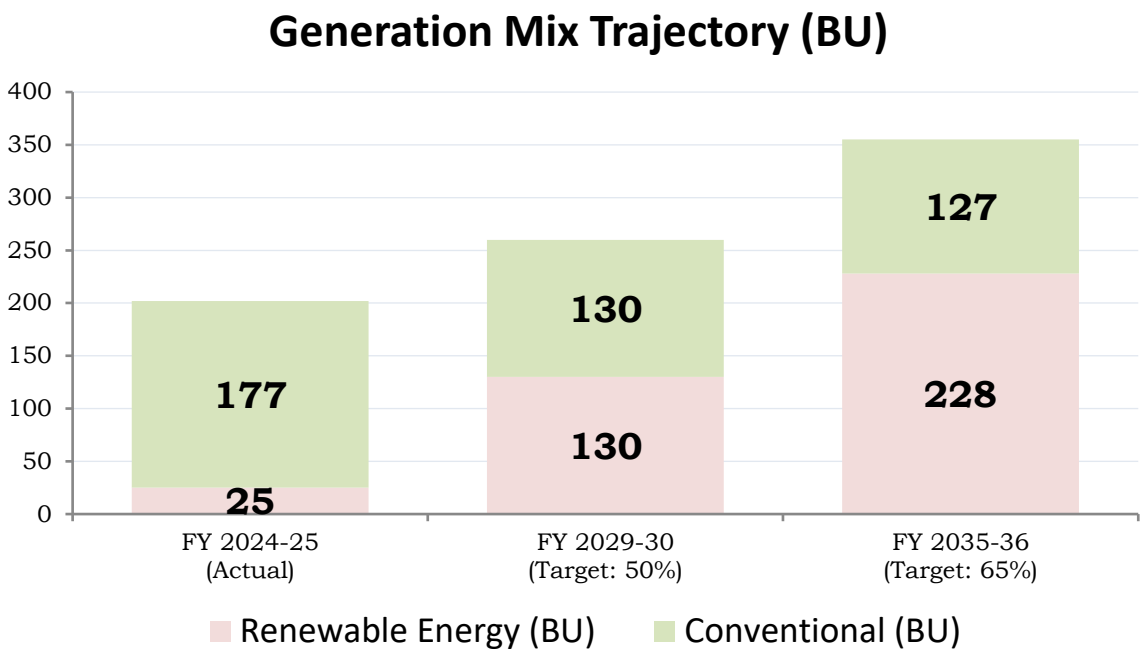
65%
RE Share of Electricity Demand

100 GW
Renewable Energy Capacity

100 GWh
Energy Storage Capacity / Day

10%
Energy Storage Obligation (ESO)



- Discoms to procure ES capacity to at least 10% of their demand. (86% of the total energy stored is procured from RE on annual basis)
- Demand increase FY26-36 to be met via RE
- PSP policy to promote PSPs.
- DISCOMs not obligated to procure power or supply pumping energy to PSP – Right of First Refusal with State.

STRATEGY 2

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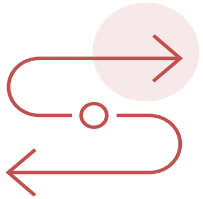
Hybrid Projects & Energy Storage

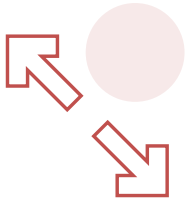


Flexible deployment

- Allow both co-located and standalone energy storage systems across technologies
- Stand alone ESS project will have minimum Threshold of 5MW

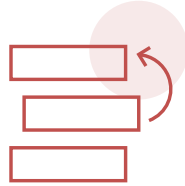
Storage mandate

Mandatory energy storage for new large wind and solar projects of at least 50% RE capacity with 2–4 hrs storage



Capacity expansion

Enable existing wind and solar projects to expand capacity and add energy storage



Priority connectivity

- Priority transmission connectivity for solar and wind projects integrated with energy storage
- Distributed Energy Storage -10% of total Storage capacity to be developed under this model.

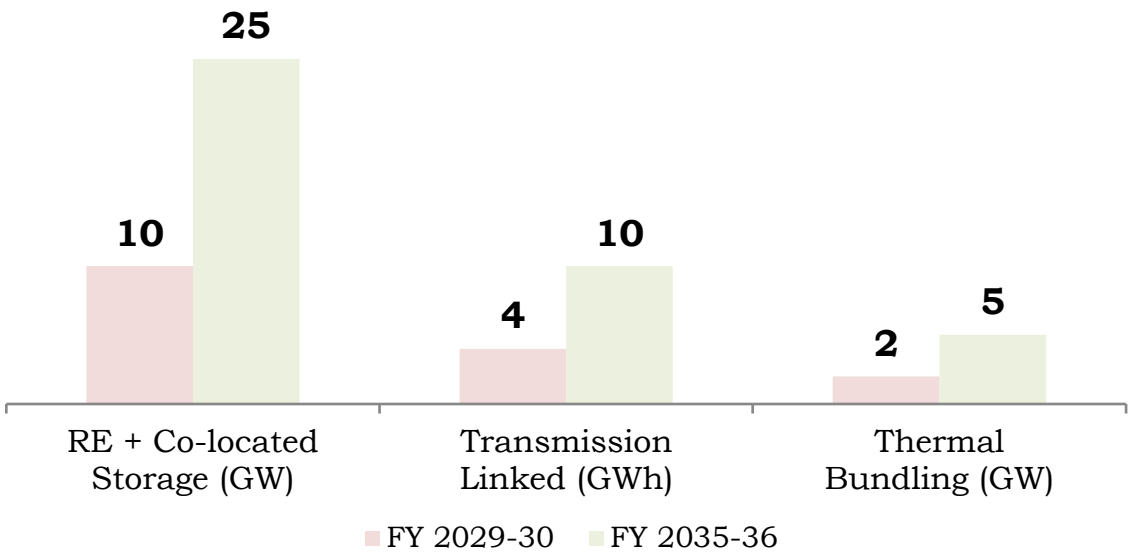
Cost incentives

- Exempt energy storage systems from transmission and demand charges for in-state consumption
- Urban and Industrial Solar hubs to Reduce Grid congestion, transmission cost and costly upgrades.

Hybrid Projects & Energy Storage

Government of Maharashtra

Capacity Targets by Route



Key Provisions

- Standalone BESS & PSP actively promoted – No InSTS/demand charges / transmission/wheeling/ ED/ Cross-subsidy charges for ESS charging if the stored energy is consumed. in-state
- Technology-agnostic storage tenders shall lead us to marked innovation & better price discovery.

- Mandatory storage for RE projects >100 kW: Compulsory 50% capacity @ 2hrs. duration BESS from Apr-2026.
- DISCOMS to provide Distributed Storage cost-benefit analysis. 10% of ESO* via decentralized storage.

* ESO: Energy Storage Obligation

STRATEGY 3

Land with Good Quality RE Resources and Transmission Connectivity - Two Key Enablers of Energy Transition

Government of Maharashtra

Policy Framework

- Clear policy guidelines on provisions of **Govt./Pvt. land** for RE projects.
- Well-defined **roles & responsibilities** for Govt/Institutions/PSUs/Local Self Govt.
- Framework for use of **Pvt. land** for RE projects.
- NA premium waived for **RE & ESS.**
- Digital mapping of land resources via **PM Gati Shakti** portal.

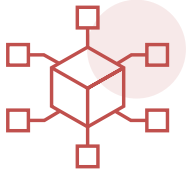
Renewable Energy Zones (REIZ)

- Develop REIZ with ready land & transmission infrastructure to Encourage **direct RE & storage procurement** by OA and CPP consumers.
- **25 REIZs** of **100 MW** each to be developed by designated REIZ/Park developers.
- Rs. 500 Crs. **Budgetary support** to designated state REIZ developers

STRATEGY 3

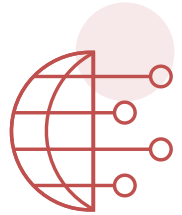
Land with Good Quality RE Resources and Transmission Connectivity - Two Key Enablers of Energy Transition

Government of Maharashtra



Integrated Resource Planning

- Revised IRP & ISP **for 65% RE, 10% ESO**
- Use **energy storage** to optimize transmission capacity, utilization and grid reliability - Development of transmission linked **storage of 10 GWh.**
- Improvement in **transmission planning** with greater co-ordination, network optimization & reliable grid integration of RE.
- Access **with injection-sharing rights** be differentiated; solar, and non-solar hour **transmission access.**



Network Optimization

- Deploy advanced **HTLS conductor.**
- **Reconductoring** to enhance capacity of existing network.
- Enable grid-forming **inverter-based resources (IBR)** to provide critical system strength, inertia, voltage and frequency control

STRATEGY 3

Land with Good Quality RE Resources and Transmission Connectivity - Two Key Enablers of Energy Transition

Government of Maharashtra

Competition and Pricing of RE related Transmission infrastructure

- Further **streamlining of process** to enhance flexibility - Partial project **commissioning;** Increasing existing RE project capacity; **Land & Metering** requirements.

Strengthening of Institutional Framework for improving planning

- Autonomy and accountability **of STU & SLDC** through restructuring.
- Making **Forecasting & Scheduling** regulations more effective.
- Development of **500–1000 MW** Grid connected storage.

STRATEGY 4

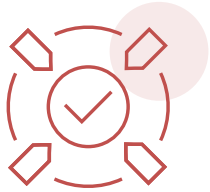
Promoting Competition and Consumer Choice

Government of Maharashtra

Steady growth of consumer-led RE adoption is primarily driven by declining technology cost, supportive net metering regulations and consumer awareness.

Preserving & Expanding Consumer Choices

- Enabling access to alternative supply options for **MOST CONSUMERS.**
- Cost reflective **pricing** for network and ancillary services.
- Fair allocation of **risk and reward** across stakeholders.



Framework to promote grid interactive RE system

- A **layered framework** basis the size of project including energy accounting, metering and banking framework.
- Virtual **aggregate metering** for public bodies.
- BESS for **MSMEs.**

Green Open Access & DISCOM Sustainability

- Establishing facilitative framework to **ensure transparency.**
- Identifying and mitigating risks to **DISCOM Operations.**
- **Investment** in power procurement planning, network and metering infrastructure.

STRATEGY 4

Promoting Competition and Consumer Choice

Government of Maharashtra

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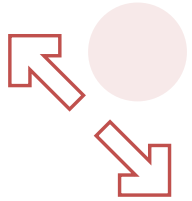
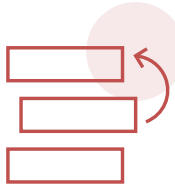


Ease of accessing Green Access

- Eligibility threshold for **Green OA** lowered to 100 kW; MSMEs to be promoted
- Simplified procedures and **time bound** approvals



Enhancing flexibility in project sizing & encouraging long term Green OA

- A target of **5 GW/10 BU** of long-term Green OA by 2030 and **15 GW/20 BU** by 2035–36
- **ED exemption** of 10 Yrs. for BESS linked integrated solutions.
- Rationalization of **transmission charges** for RE based MTOA & LTOA
- Enabling higher RE project sizing.

Framework for pricing discom services at cost

- Unbundling of **tariff** charged by Discom.
- To ensure **services** such as balancing, banking, grid supply are priced at cost
- Making renewable an economically **viable solution** for smaller consumers.

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Promoting Competition & Consumer Choice

Small Consumers (1-100 kW)

- Net metering up to 10 kW; net-billing 10-100 kW
- Annual banking (<3 kW); monthly (3-10 kW)
- ToD slot-wise energy accounting; smart meters
- Virtual & aggregate metering for public bodies

Medium & Large (>100 kW)

- Green OA threshold: 1MW → 100 kW
- 5 GW/10 BU Green OA by FY30; 10 GW/20 BU by FY36
- ED exemption 10 yrs: Captive RE with 4-hr storage
- 15-min block-wise energy accounting for OA

DISCOM Services & 24x7 RE

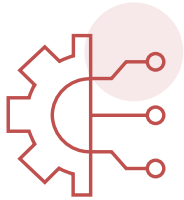
- Unbundled tariff for cost-reflective service pricing
- 24x7 verifiable RE supply under special tariff
- Transition financial support for revenue attrition
- Dedicated SE-rank officer per zone for MSMEs

Ease of Doing Business

Government of Maharashtra

Single window portal

Unified digital platform for renewable energy project approvals.



End-to-end digitization

All approval processes across agencies through fully online system.

Simplified processes

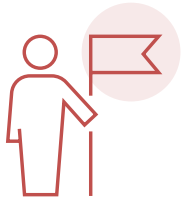
Streamlining procedures and reducing approval timelines, especially for smaller projects.

Process governance

Periodic review and simplification of processes by MEDA.

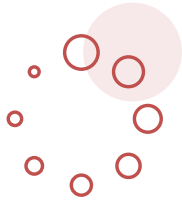
Strengthening Institutions and Driving Innovation

Government of Maharashtra



Institutional autonomy

MSLDC and STU Autonomy to strengthen power system planning and operations.



Sector transformation

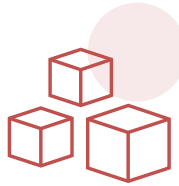
Transforming and preparing MSPGCL and MEDA for energy transition.

Data & planning capability

Establish data platforms, monitoring systems and dedicated planning and modelling cells across discoms and system operators.

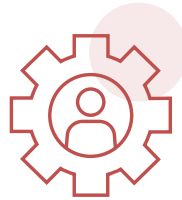
Innovation ecosystem

R&D, innovation, and start-up center for renewable energy and energy storage.



System-wide coordination

Building institutional framework for state wide coordination and integrated planning.



Implementation governance

Strong institutional framework for effective policy implementation, monitoring and review.

Innovative Programs – Decentralized Energy Solutions

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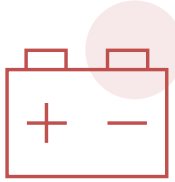
Urban and industrial solar plus storage hubs

- Maharashtra to promote 100- 250 MW Solar + Storage projects to enhance reliability and resilience
- Meet rising urban demand, enhance reliability and resiliency, near major cities and industrial clusters



Battery Energy Storage Systems for MSME

- Improve competitive renewable supply procurement by MSMEs and support reliable grid operations
- MSEDCL to support BESS deployment by MSMEs through bulk procurement program

Innovative Programs – Scaling Green Power Access

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24×7 renewable power for industrial and commercial consumers

- Growing demand driven by CBAM and economic considerations
- Provisions for verifiable 24 x7 renewable energy supply for interested consumers
- DISCOMs encouraged to provide such service under special tariff category with minimum 1-year contracts

Renewable Energy Industry Zones (REIZs)

- Development of zones with investment ready infrastructure and transmission connectivity
- Helps geographically diverse development of jobs and investments
- Initial support of INR 500 cr for designated State REIZ Developer

Innovative Programs – System and Asset Optimization

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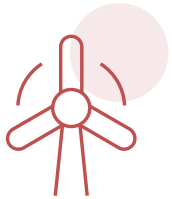

Incentives for wind repowering

- INR 0.50 per unit for 1st 5 years for wind repowering projects selling power to MSEDCL
- 1 GW target by 2030
- Electricity duty exemption for captive projects for 10 years

Bundling of thermal projects with RE/Storage

- Encourage RE/Storage at existing thermal projects to optimize transmission utilization, thermal generation and reduce fuel costs
- MSPGCL and other IPPs encouraged to explore such projects
- Target of 2 GW RE and or ESS by FY 30 and 5 GW by 2036

Unique Features of the Policy

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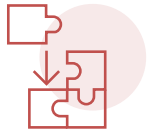
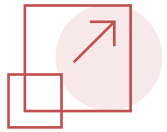


Integrated system

Links generation, storage, transmission, distribution, and markets into a single policy framework



Scale and clarity

Long-term, integrated and institutionally anchored vision aligned to the scale of energy transition

Strong institutional governance

Creation of State-Level Steering Committee and Implementation Committee; provides institutional oversight, strengthening regulatory certainty and investor confidence

Balanced design

Policy explicitly calls for a “balanced and equitable growth” of direct RE procurement

Clear execution roadmap

Stakeholder wise timelines and clear next steps

To sum it up: What this Policy Delivers for Maharashtra

Government of Maharashtra

Long-term transformation

10-year transition roadmap aligned to Maharashtra's growing energy demand

Decisive energy transition

Step-change in Maharashtra's energy transition, beyond incremental policy evolution

Affordable and competitive power

Scale low-cost renewable energy and storage to reduce power costs for industry and consumers

Reliable energy supply

Enable round-the-clock renewable power and improve grid stability through storage integration

Modernized power system

Transition to an integrated, flexible and future-ready electricity system

Industrial growth and investment

Unlock investments and economic growth through large scale RE deployment

Policy Implementation & Monitoring

Government of Maharashtra

State-Level Steering Committee

Chaired by Hon'ble CM / Energy Minister

- Quarterly policy implementation review
- Resolve inter-departmental challenges
- Issue directions to implementing agencies
- Power to clarify ambiguities and remove difficulties
- Members: ACS/PS (Energy), PS (Industries), PS (Revenue), CMD MSEDCL

Implementation Committee

Chaired by ACS/PS (Energy)

- Time-bound execution of all policy interventions
- Monthly action plan review and monitoring
- Recommend modifications to Steering Committee
- Members: CMD MSEDCL, MahaGenco, MahaTransco, MahaUrja, MSLDC
- Chief Electrical Inspector as member

Key Action Milestones

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Timeline	Key Actions	Agencies
3 Months	REIZ guidelines, Green OA portal, grid connectivity procedures, MEDA committee, NA waiver notification	GoM, STU, MEDA, Revenue
6 Months	MSPGCL transformation plan, HR & skills report, coordination framework, two-part tariff study, analytical cells	MSPGCL, GoM, DISCOMs
12 Months	MSETCL restructuring, DSO study, transmission storage assessment, reconductoring study, MEDA plan, grid BESS plan	STU, MSETCL, MSLDC
FY 2029-30	50% RE, 10 GW RE+Storage, 10 REIZs, 5 GW Green OA, 4 GWh trans-storage, 1 GW wind repowering, 2 GW bundling	All agencies
FY 2035-36	65% RE, 100 GW RE, 100 GWh/day storage, 25 GW RE+Storage, 15 REIZs, 10 GW Green OA, 10 GWh trans-storage, 5 GW bundling	All agencies

Indicative Outcomes Expected from the Policy

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INR 4-4.5 lakh Cr.
Investment to reach 100 GW RE and 100 GWh storage

INR 10-20k Cr.
Avg. annual saving in power purchase cost

INR 0.2-0.3/kWh
Potential reduction in tariff for consumers

2-2.5 lakh jobs
Across construction, O&M, grid integration, etc.

20-25% reduction
In CO2 emissions of the state

Government of Maharashtra

Thank you!