

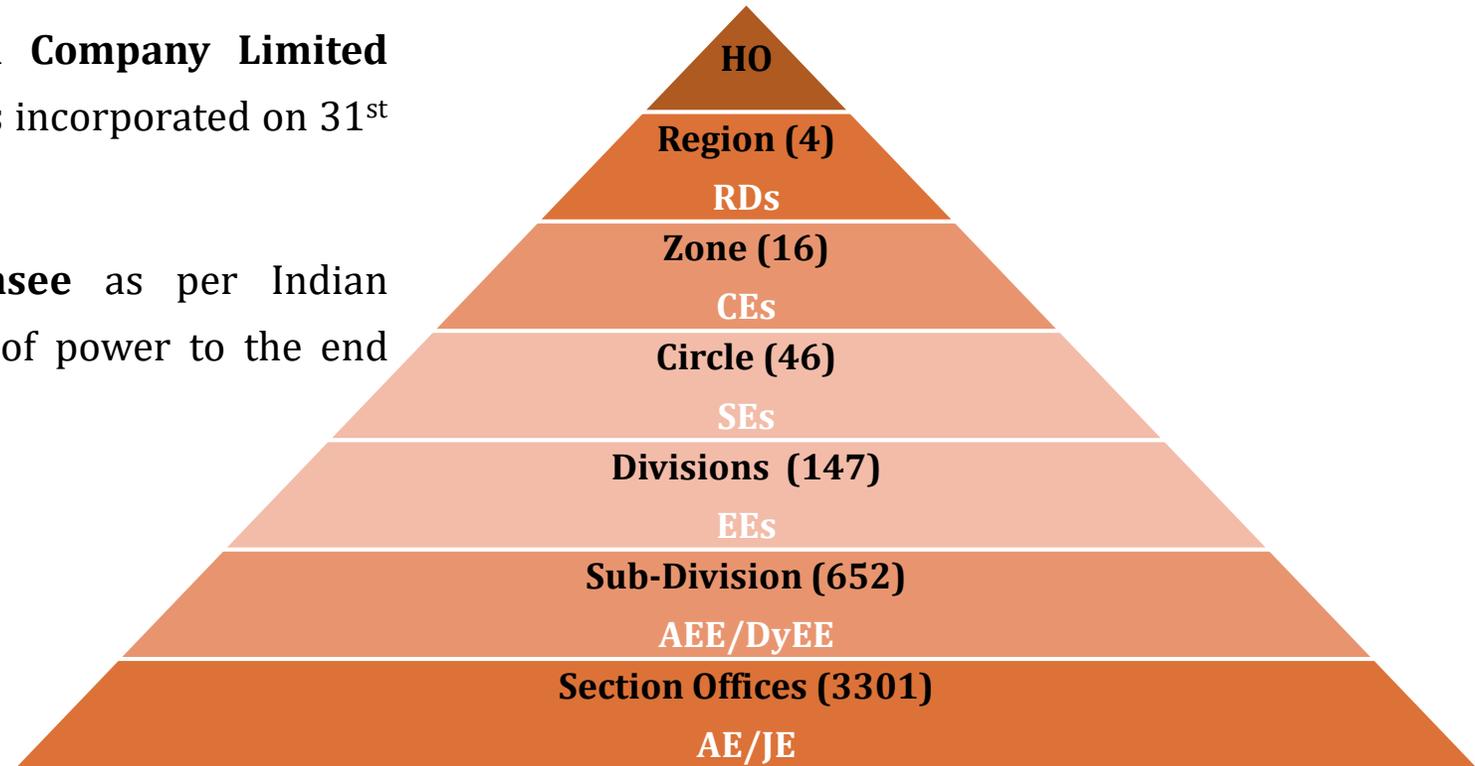


Public Hearing

Final True Up For FY 2022-23 & FY 2023-24,
Provisional True Up For FY 2024-25 &
MYT Projections For FY 2025-26 To FY 2029-30
(Case No. 217 Of 2024)

- MSEDCL at a Glance
- Efforts Initiated by MSEDCL
 - Consumer Services & Engagement
 - Initiatives to Harness Solar Energy
 - Achievements & Awards
- Multi Year Tariff Petition covers period of 8 years from FY 2022-23 to FY 2029-30
 - Final True Up of FY 2022-23 and FY 2023-24
 - Provisional True Up of FY 2024-25
 - Multi Year Tariff Petition for 5th Control Period (FY 2025-26 to FY 2029-30)
- Proposed Tariff
- Tariff Design
- Agriculture ACoS
- OA Charges: Cross Subsidy, Wheeling and Additional Surcharges

- **Maharashtra State Electricity Distribution Company Limited (MSEDCL)**, a Maharashtra Government entity is incorporated on 31st May 2005
- MSEDCL is a **Deemed Distribution Licensee** as per Indian Electricity Act 2003, carrying out the supply of power to the end users



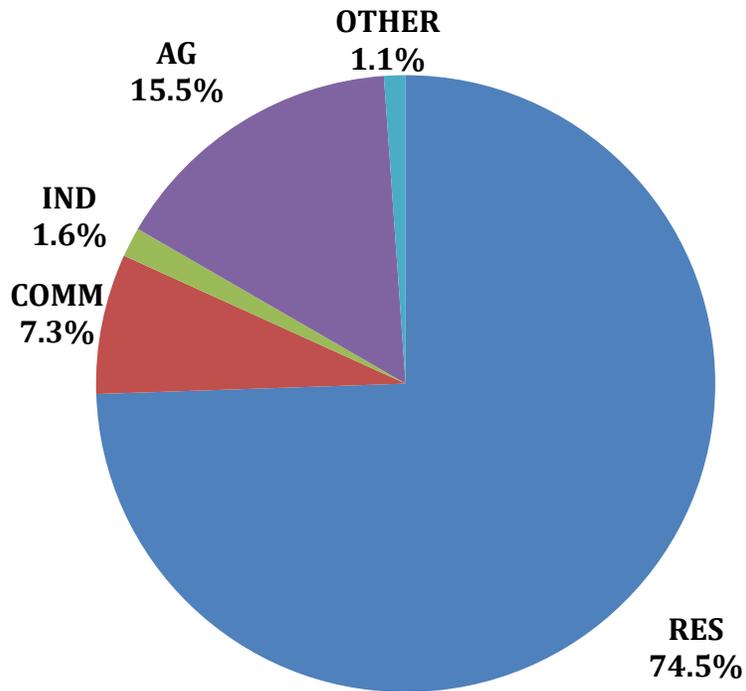
Area covered-3.08 Lakhs Sq.km

Particulars	Nos.
No. of Consumers	3.07 Crs
Annual Sales	1,29,026 MUs
Maximum Demand Catered (on 30/01/2025)	26,256 MW
Employees strength	81,827

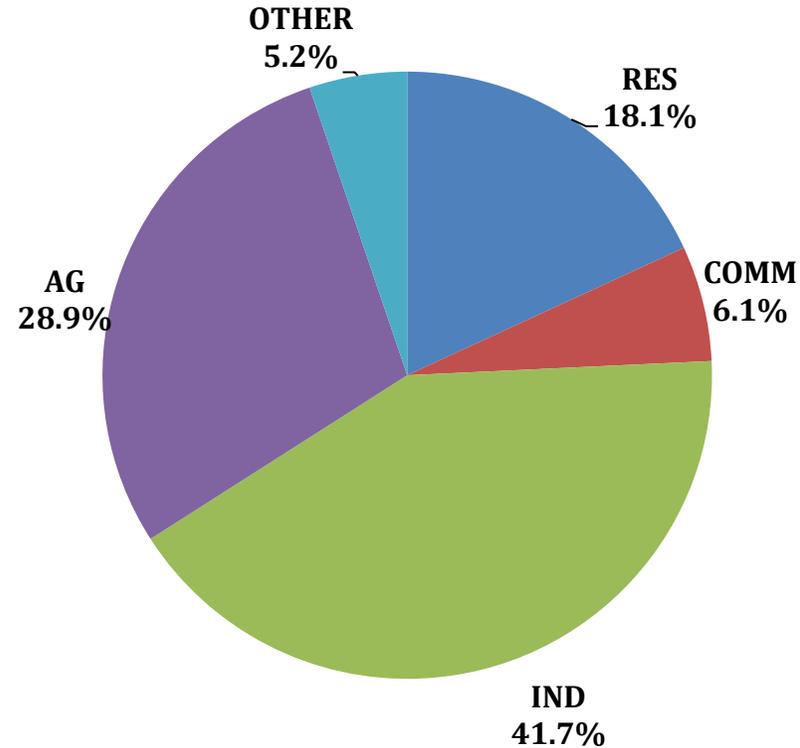
Particulars	Unit	Nov-2024
Sub-Stations	Nos.	4,193
DTCs	Nos.	9,52,493
LT Lines	Ckt-kM	7,20,470
HT Lines	Ckt-kM	4,51,560

Consumers, Sales & Revenue - FY 23-24

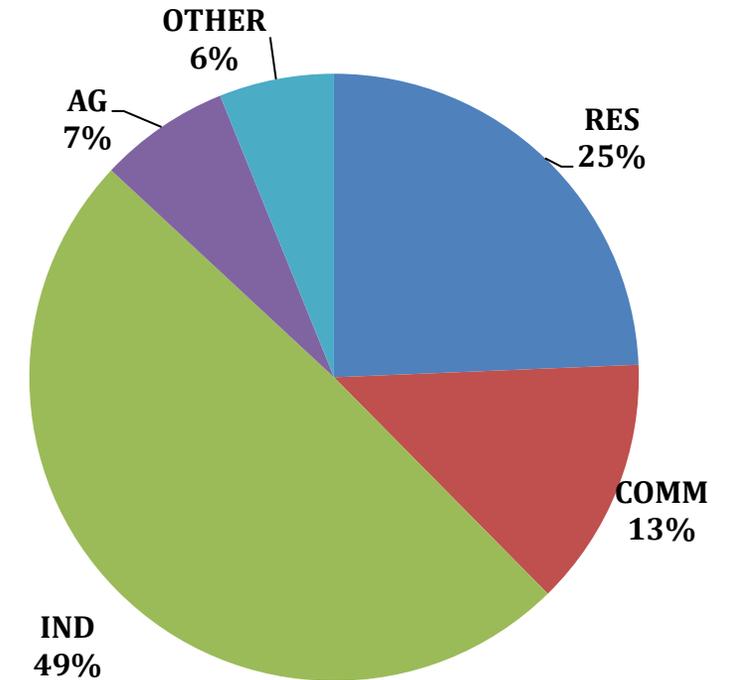
CONSUMERS - 3.07 Crore



SALE - 1,29,026 Mus



COLLECTION - 1,12,421 Crore



Includes collections from the consumers, subsidy and other adjustments

NOTE : OTHER - Includes Street Light, PWW, Poultry etc.

1 MSEDCL is largest Power distribution utility in India in terms of Energy Sales & Demand

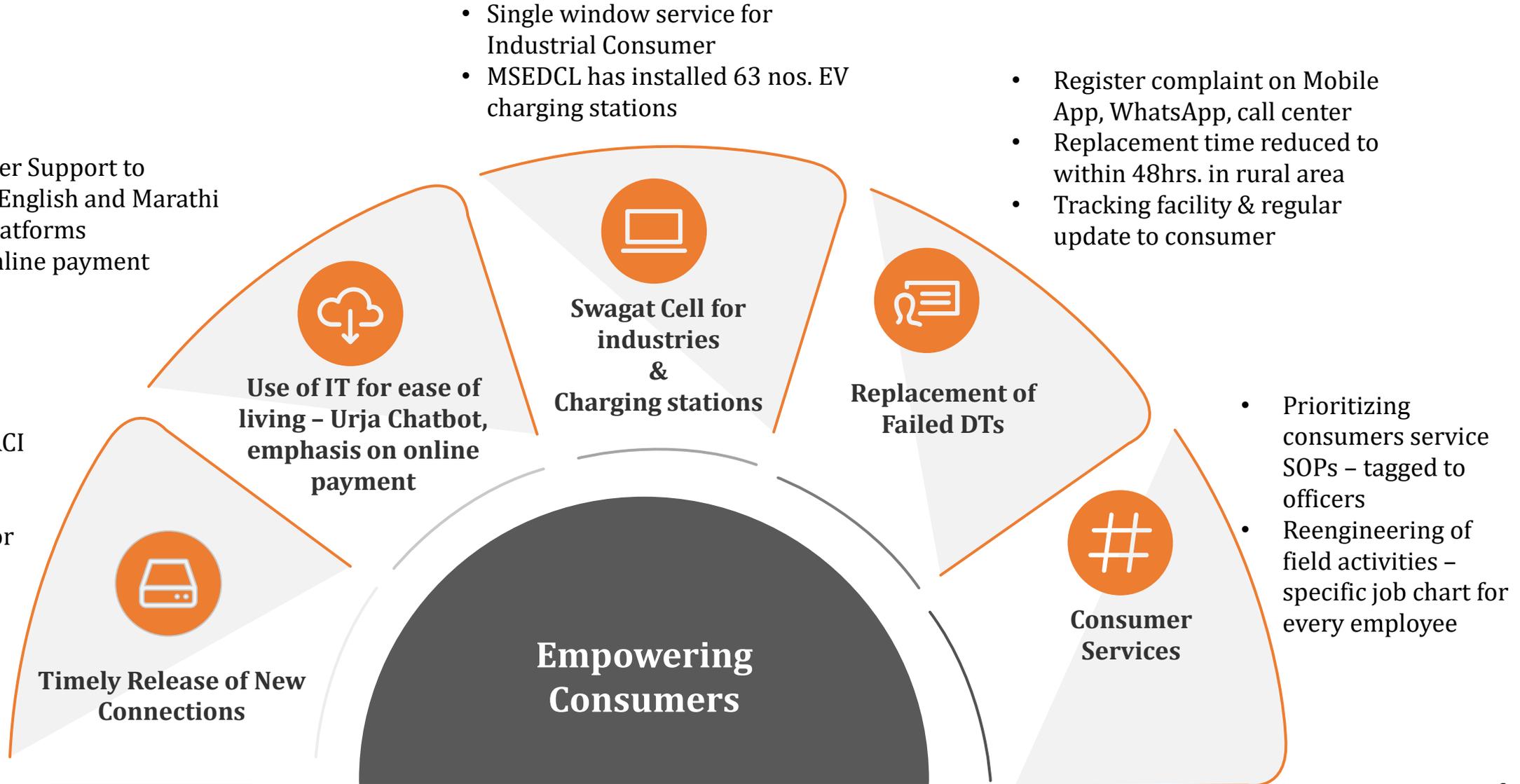
Efforts Initiated by MSEDCL

- 24x7 Customer Support to consumer in English and Marathi
- Interactive platforms
- Promoting online payment

- Single window service for Industrial Consumer
- MSEDCL has installed 63 nos. EV charging stations

- Register complaint on Mobile App, WhatsApp, call center
- Replacement time reduced to within 48hrs. in rural area
- Tracking facility & regular update to consumer

- Timely release of RCI connection
- Targeting ZERO pendency concept for AG
- Application & payment of charges online



- Prioritizing consumers service SOPs - tagged to officers
- Reengineering of field activities - specific job chart for every employee

Customer Engagement Platform

Customer Engagement Platform



My Account



Billing



Usage



Outage



Notification



Service



Connect Me

DIGITAL MOBILE ENGAGEMENT | SINGLE INTEGRATED PLATFORM | REAL TIME 2- WAY COMMUNICATION | CONFIGURABLE MODULES | DEVICE AGNOSTIC



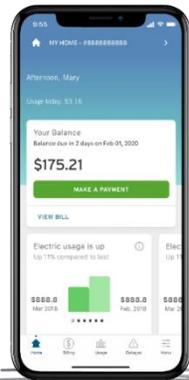
Central Call Centre

Toll Free
1912 / 19120 /
1800-212-3435 /
1800-233-3435



Consumer Portal

www.mahadiscom.in/consumer



Native Mobile App

Android, iOS
English, Marathi



Missed Call

022- 50897100



Email

customercare@mahadiscom.in



Social Media

Facebook, Twitter,
Instagram, YouTube



Customer Facilitation Centre

For walk in consumers

Initiative to Harness Solar Energy

Mukhyamantri Saur Krushi Vahini Yojana (MSKVY 2.0)

- World's Largest Decentralized Solar Project of 16 GW
- Cater to 100% of agriculture demand across 27 districts in the state
- Average tariff discovered Rs. 3.07/kWh
- 229 MW capacity commissioned at 54 substations

PM Surya Ghar Muft Bijli Yojana

- Total Application Received- 3,74,784
- Total RTS installed 1,25,617 (488 MW)
- Subsidy of Rs. 800 Cr. disbursed.

MSEDCL - RTS

- Total RTS installed (in RCI) 2,83,746 (3,000 MW)

Saur Gram Yojana

- 6 nos. villages 100% solarized

Magel Tyala Saur Krishi Pump & KUSUM B

- Sanctioned installation of- 7.5 Lakh Solar Pumps
- Payment received from 4,85,819 applicants
- 1,70,716 nos. of solar pumps installed

Resource Adequacy Plan

- Power Purchase Cost optimization
- ~44 GW capacity addition by FY 2032-33.
- RE share to increase from 13% to 49%.

Infra Investment Required

- For MSKVY 2.0
 - Rs. 3,023 Cr. for system strengthening - RDSS
 - Rs. 2,354 Cr. for s/s augmentation
- RDSS Scheme
 - Rs. 13,345 Cr. for Loss Reduction
 - Rs. 29,950 Cr. for system Modernization

1  Prestigious **IPPAAI National Award for Solar Power Initiative** in Jan 2025
For providing uninterrupted solar power to farmers during the daytime

2  **3 awards of IPPAAI (Independent Power Producers Association of India) in different category**

- *Innovative IT Application in Power Sector*
- *Best Performing Distribution Company to Promote Consumer Awareness*
- *RF Metering and Meter Data for outstanding performance*

3 Excellence Award in **Energy Transition** by Indian Chamber of Commerce

4 **Skoch Gold Award for MSKVY 2.0**
Skoch Silver Award for Saur Gram Yojana



5 The **“ISGF Innovation Award 2023”** for solving the problem of electric vehicle users by implementing the charging station facility.

6 For remarkable performance in the **‘Solar Rooftop Scheme’** to generate electricity by installing solar energy panels on the roof of the house.

7 From a reputable publication focusing on **Public Policy and Good Governance**.

8 West Tech Symposium Award for **Leadership, Cyber Security and Data Protection, Emerging Technology** (substation monitoring) and **Skill Development Initiative**.



True-up , Provisional True-up and MYT Petition for 5th Control Period

Petition - FY 2023, FY 2024, FY 2025 & FY 2026-30

True Up & APR

FY	Particulars	Approved	Actuals	Gap/(Surplus)
	Aggregate Revenue Requirement	94,913	1,11,402	16,489
<u>FY 2022-23</u>	Revenue	1,01,154	94,374	(6,780)
	Gap/(Surplus)	(6,241)	17,028	23,269
	Aggregate Revenue Requirement	1,07,973	1,23,703	15,730
<u>FY 2023-24</u>	Revenue	1,07,651	1,14,518	6,867
	Gap/(Surplus)	322	9,185	8,863
	Aggregate Revenue Requirement	1,16,029	1,31,031	15,001
<u>FY 2024-25</u>	Revenue	1,16,359	1,30,402	14,044
	Gap/(Surplus)	(329)	628	958

MSEDCL has submitted the petition before the Hon'ble Commission regarding;

- As per MYT Regulation, 2019
- Final True Up for FY 2022-23 & FY 2023-24
 - Provisional True Up for FY 2024-25 and MYT

- As per MYT Regulation, 2024
- Projections for FY 2025-26 to FY 2029-30.

Projections for FY 2025-26 to FY 2029-30

Particular	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Aggregate Revenue Requirement	1,29,228	1,44,260	1,56,413	1,66,532	1,75,249
Revenue	1,35,870	1,45,822	1,53,013	1,61,321	1,69,785
Gap/(Surplus)	(6,642)	(1,562)	3,400	5,212	5,465

- Net recovery required from Tariff due to revenue gap is Rs. 48,060 Crs.
- Revenue gap is considered for
 - FY 22-23 & FY 23-24
 - Provisional True Up for FY 24-25
 - Impact of order on MTR Review Petition (Case no. 102 of 2023)
 - Projected revenue gap for MYT Period FY 25-26 to FY 29-30
 - Carrying cost for pervious gaps

Particulars	Amount (in Rs. Crs.)
Final True Up Requirement for FY 22-23	23,269
Final True Up Requirement for FY 23-24	8,863
Provisional True Up Requirement for FY 24-25	958
Projected Revenue Gap for MYT 5 th Control Period (FY 25-26 to FY 29-30)	5,873
Impact of Review Order on MTR Order	398
Total Revenue Gap for the MYT Period	39,361
Carrying Cost for previous gaps/impact and unrecovered gaps during Control Period	8,699
Net recovery from Tariff	48,060

Major Reasons for Deviations in Actual and Approved Power Purchase cost in FY 2022-23 & 2023-24

- ❑ Increase in MSPGCL FSA bills by Rs. 4,839 Crs. due to blending of imported coal upto 10% as per MoP guidelines.
- ❑ NTPC tariff revisions bills of Rs. 809 Crs. of stations such as Korba, Sipat 1, Kawas, Gandhar, KHTPS 2 & VSTPS 2.
- ❑ NPCIL tariff revision bill of KAPS 1&2 of Rs. 644 Crs.
- ❑ Increase in CIL charges as per Supreme Court & various orders of Rs. 15,360 Crs.
- ❑ Increase in Inter and Intra state transmission charges by Rs. 508 Crs. and Rs. 87 Crs. respectively.
- ❑ Due to Court order Rs. 1510.16 Crs. additional cost paid to RGPPL during FY 2023-24
- ❑ Revenue loss due to reduction in sale against approved Industrial & Commercial category.

Tariff set at ACoS for industries
for 5 years

Supply of green power to Data
centers/ Semiconductor
Industries @ ACoS (which will be
lower than the industrial green
tariff)

Introducing incentive to
residential consumers @ 10%
rebate during solar hours

Benefits

Reducing government subsidy
burden

Removing cross-subsidy burden
from Industries

Tariff Design

Rationalization of Fixed Charges

- Hon'ble Commission in previous Tariff Orders and MYT Regulation 2024 has stated that
 - Fixed Cost of Licensee to be recovered from Fixed/Demand Charges
 - Fixed Charges to be increased gradually year on year
- Currently Fixed Expense is around 50% of ARR, while [Revenue Recovery from Fixed/Demand Charges is around 12%](#)
- MSECL has proposed increment in Fixed/Demand Charges in proposed Tariff
 - MSEDCL will gradually recover revenue from Fixed/Demand charges, 16% (FY 2025-26) to 16.7% (FY 2029-30)

Revision in Time of Day (ToD) tariff structure

- MSEDCL is adding significant solar capacity in upcoming years, which will help in
 - Reduction in Power Purchase Cost & in-turn reduction in tariff
 - Shifting AG demand to solar hours
 - Meeting Net Zero Targets
 - Meeting RPO Targets
- [Proposed ToD Tariff](#) feature incentives during solar peak hours (9 AM - 5 PM) and higher rates during non-solar hours

kVAh Based Billing (for Industrial & Commercial consumers)

- Hon'ble Commission, in its MYT order dated 31st March 2023 in case no. 226 of 2022, has directed MSEDCL to complete its system modifications for kVAh based billing
- kVAh based billing provides inbuilt Power Factor incentive/penalty as ruled by Hon'ble APTEL
- ***MSEDCL has proposed kVAh based billing for LT consumer above 20 kW load*** and Power Factor incentive/penalty shall be withdrawn

Grid Support Charges

- RTS installation in MSEDCL area: 3,000 MW
- MSEDCL is facing following challenges due to increase in RTS installations
 - Grid used as a storage system for solar users which creates grid instability.
 - The feed-in tariff is cheaper contrary to power consumed during non-solar hours creating distortion in tariff mechanism and leading to cross subsidy burden on other consumers.
 - Consumers need to have in-build storage capacity
- ***MSEDCL has proposed Grid support charges for consumer above 10 kW having RTS***, as per provisions of MERC Net Metering Regulation 2019

Green Tariff

- Hon'ble Commission has determined Green Tariff in the Case No. 134 of 2020 dated 22.03.2021 at Rs. 0.66/unit. Same Tariff is maintained for FY 2023-24 and FY 2024-25
- ***MSEDCL has proposed reduction in Green Tariff from Rs. 0.66/unit to Rs. 0.25/unit for 5th control period***
- MSEDCL proposes green RTC power to sunshine industries like Data centres and semi-conductor at proposed Industrial tariff without any additional green tariff

Tariff for EV Charging Stations

- MSEDCL is appointed as State Nodal Agency for Maharashtra for disbursement of EV Charging station
- 63 Nos. of EV Charging stations commissioned by MSEDCL
- ***MSEDCL has proposed Single Part Tariff for EV Charging Station*** as per GoI issued Guidelines on "Electric Vehicle Charging Infrastructure -2024" dated 17 Sept 2024

Multiple Source of Supply

- Presently 205 nos. of HT & EHV consumers are availing double/multiple feeder supply of electricity.
- MSEDCL to bear additional capex cost for laying down additional feeder & upstream network
- ***MSEDCL has proposed to levy 50% additional fixed cost from such consumers***

Modifications proposed

MSEDCL has proposed following changes in existing Rebates & Charges

Discount in Demand Charges for Single Shift operation of HT-Industry:

- Additional condition proposed, if out of 10 hours of the operation of the industry at-least 8 hours are during solar hours (9 AM to 5 PM)

Billing Demand:

Proposed changes in [Modality for Determination of Billing Demand](#)

Continuation of "Miscellaneous and General charges"

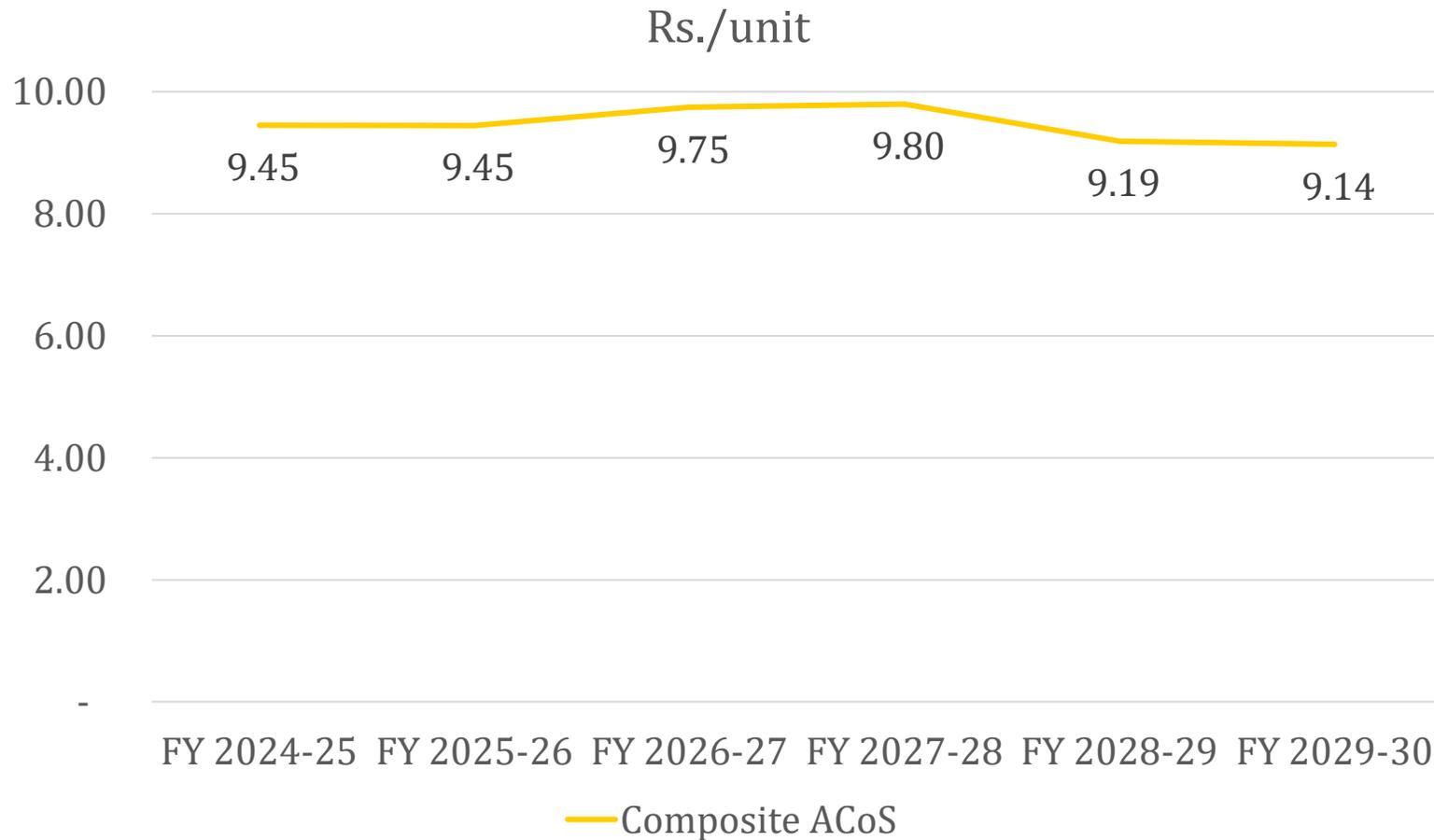
MSEDCL proposes for continuation of following

Miscellaneous and General charges:

- Incremental Consumption Rebate
- Prompt Payment Discount
- Discount for digital payment
- Load Factor Incentive
- Rate of Interest on Arrears
- Penalty for exceeding contract demand
- Additional Demand Charges for Consumers having Captive Power Plant
- No Changes are proposed for Rooftop Solar Net Metering for Residential Consumers

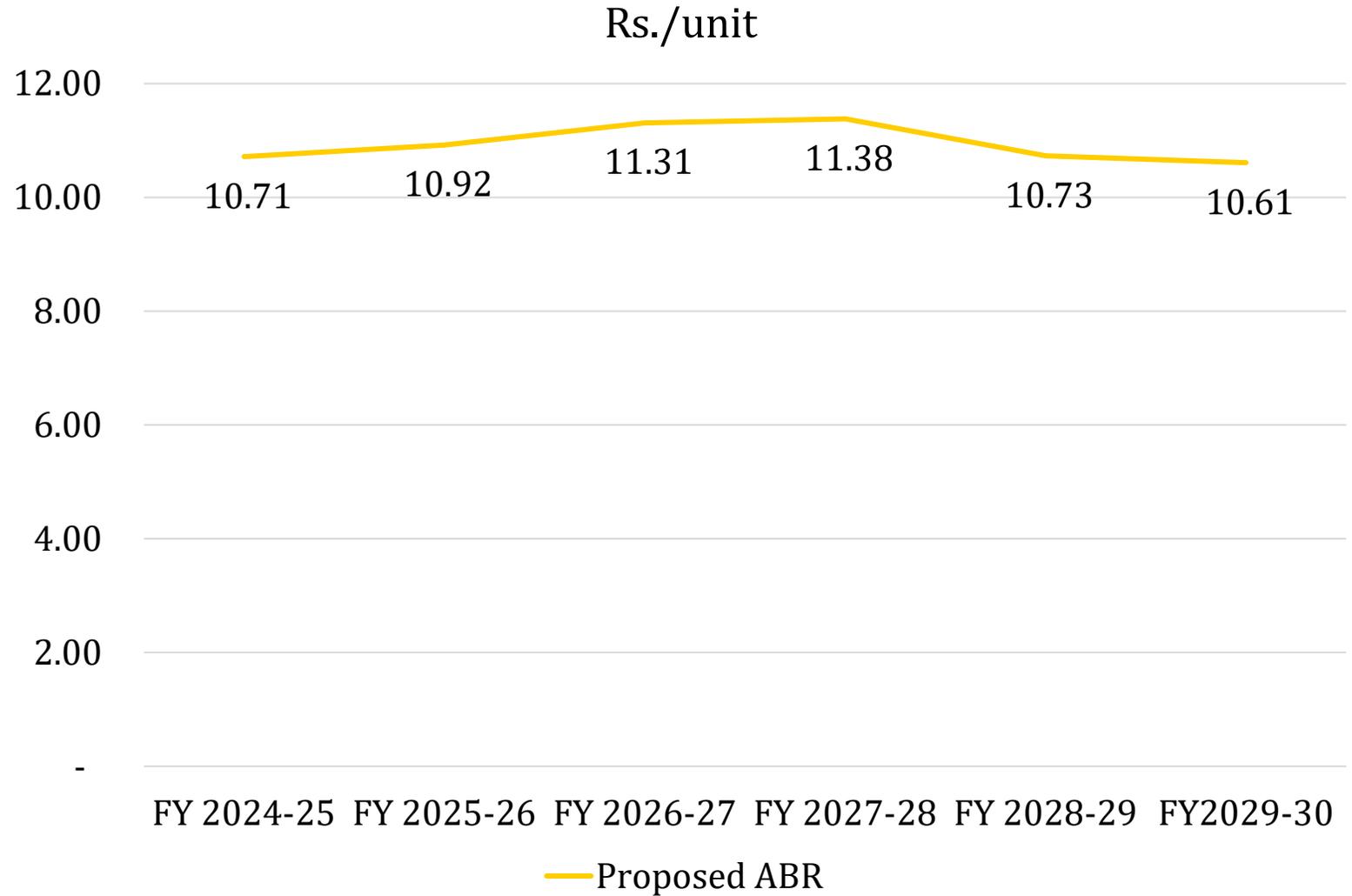
Proposed Tariff

First time in the history of MSEDCL ACoS is going down



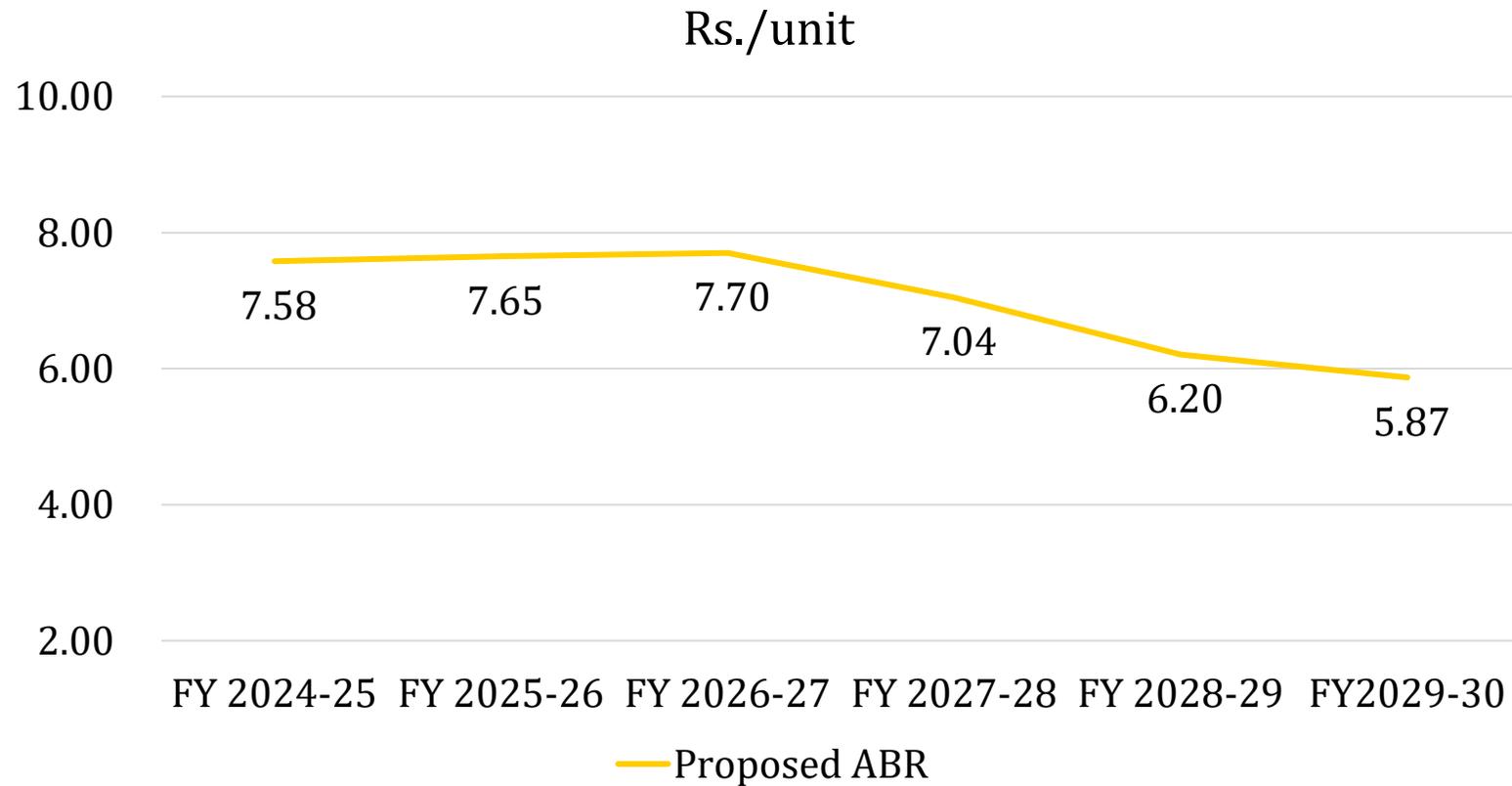
- 1. MSKVY 2.0 and high RE integration in total power purchase reduces total power purchase cost.
- 2. Reducing **CAGR is -0.67%** Vs conventional growth of 9 %
- 3. This also includes recovery of past period gap of **Rs 48,060 Cr** as tariff increase was not allowed in FY 2023-24
- 4. Per unit average impact of past period gap is **Rs 0.57**.
- 5. Overall saving due to RE power is **Rs 66,000 Cr** in next 5 years.

At Present Industry bears 13% cross subsidy burden of Agriculture.



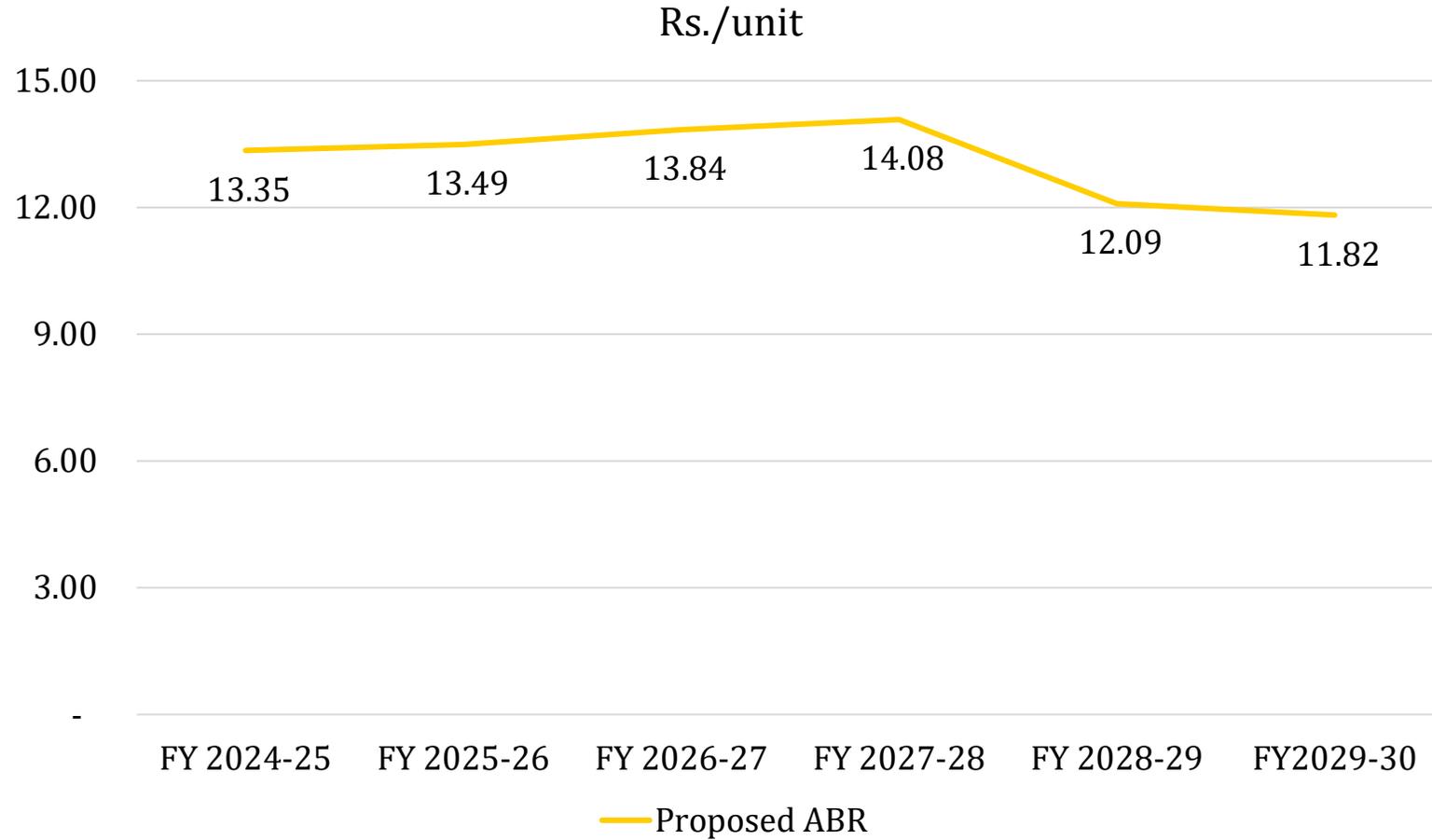
1. Decreasing Industrial tariff at **CAGR of - 0.20%**
2. Agriculture **cross subsidy** burden **removed**
3. **Tariff is set at ACoS** of respective years
4. ToD Incentive shifted to solar hours
5. ToD incentive increased from Rs 1.50 p.u. to Rs 2.40 p.u.
6. This will also provide big relief to SME/MSME

24% reduction in Residential (1- 100) tariff



1. Reducing **CAGR at -4.98%** Vs conventional growth of **~6%**
2. Benefitting **70% (~1.6 Cr.)** consumers.
3. Introduced **rebate for** residential consumers of **10%** during solar hours

Reduction in tariff for Residential (101- 300)



1. Reducing **CAGR at -2.40%** Vs conventional growth of **~6%**
2. Benefitting **25% (~61 lakh)** consumers.
3. Introduced **rebate for residential consumers of 10%** during solar hour

Agriculture ACoS

- Hon'ble Commission had directed MSEDCL in its MTR Order to carve separate agricultural company
 - To reduce cross-subsidy for industrial and commercial consumers.
- MSEDCL proposes separate ARR filing for Agri and Non-Agri businesses from FY 2025-26.
- MSEDCL is shifting 100% AG load @ 16 GW to Solar under MSKVY 2.0
 - Solarised agricultural feeders reduce power purchase costs, lowering 'Average Cost of Supply' (ACoS).
- MSEDCL has determined separate retail charges and ACOS for agriculture consumers.

ACoS for Agricultural for 5th Control Period

FY	AG ACoS
FY 2025-26	5.05
FY 2026-27	4.83
FY 2027-28	4.58
FY 2028-29	3.87
FY 2029-30	3.88

Open Access Charges & Schedule of Charges

Open Access Charges

MSEDCL has proposed following Open Access Charges in MYT Petition as per relevant provisions of Indian Electricity Act 2003, National Tariff policy and MERC MYT Regulations 2024

Cross Subsidy Surcharges:

(Rs./unit)

Category	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
HT I – HT Industry					
HT	2.18	2.26	2.28	2.15	2.12
EHV	2.18	2.26	2.28	2.15	2.12

Wheeling Charges:

(Rs./unit)

Particulars	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
HT (Excl. EHV)	0.76	0.83	0.86	0.88	0.87
LT Level	1.46	1.60	1.67	1.71	1.71

Additional Surcharge:

(Rs./unit)

Particulars	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Additional Surcharge	1.41	1.43	1.53	1.51	1.59

- The existing Schedule of Charges has been enforced from 1st Apr-2023 as approved by Hon'ble Commission in MTR Order in case no. 226 of 2022
 - Rising prices of metals, raw materials, supply chain disruptions, and global freight costs have driven inflation, which is also reflected in higher WPI and CPI
 - MERC (Supply code and SOP including Power Quality) Regulation, 2021, provides recovery of various charges to be recovered from consumers by Distribution Licensee
- Thus, MSEDCL has proposed revision in Schedule of Charges and requests Hon'ble Commission to allow the [Schedule of Charges](#) as submitted by MSEDCL

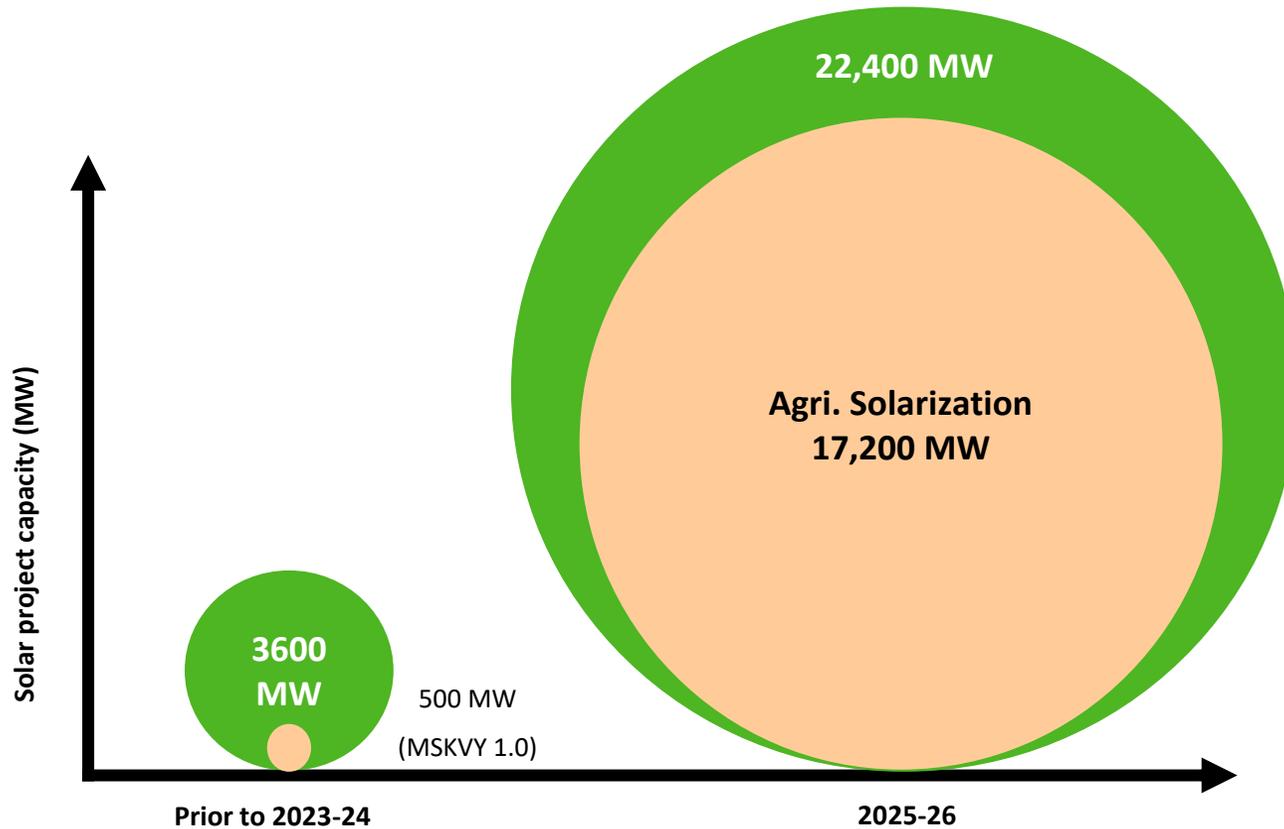
- To approve the total recovery of Aggregate Revenue Requirement and revenue gap for FY 2022-23 to FY 2029-30 along with other claims as proposed by MSEDCL;
- To approve mechanism for recovery of computed revenue gap along with carrying cost and Tariff Schedule considering the Tariff Design principles and other suggestions proposed by MSEDCL;
- To approve the schedule of charges as proposed by MSEDCL;

Status of response to Suggestion – Objection received

Particulars	Received	Complied
Received on MERC Portal	4,272	4,272
MERC Hardcopy	176	176
Received on MSEDCL Email	95	95
Total	4,543	4,543

**THANK
YOU**

16,000 MW Solar Capacity awarded in 12 months and work started



- Transparent **e-bidding** process
- Cater to **100%** of agriculture demand across **27 districts** in the state
- Average tariff discovered **Rs. 3.07/kWh**
- All **regulatory approvals** in place along with tariff adoption
- First **54 Projects of 229 MW** commissioned within **9 month** of award of LoA.

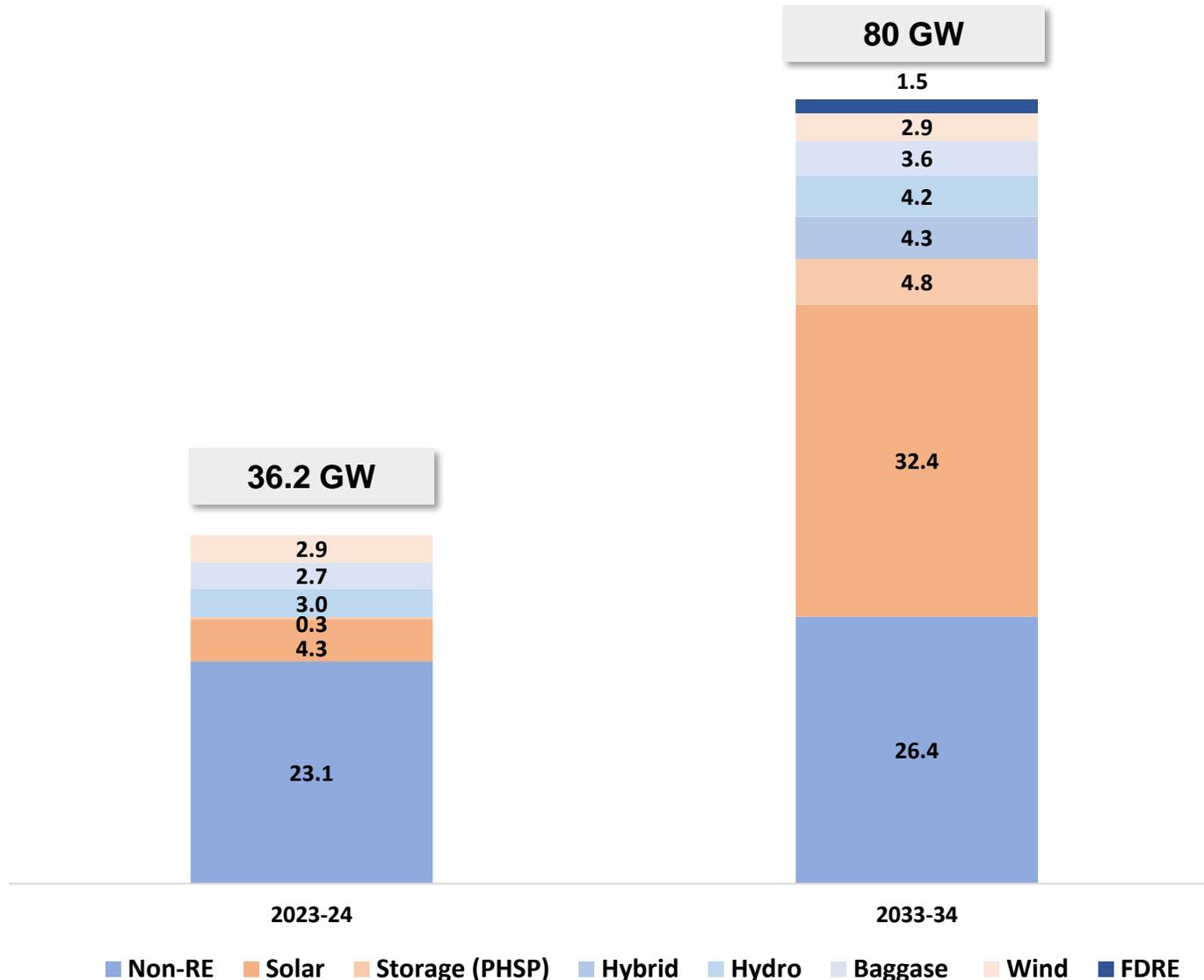
Solar energy capacity of Maharashtra will be **>6 times** of the present solar capacity within next 18 Months



Generation Capacity Addition Plan as per RA Plan

Source (MW)	Commissioned Capacity	Capacity Addition Plan										Capacity Addition	Total
	as on 31.03.2024	FY-2024-25	FY-2025-26	FY-2026-27	FY-2027-28	FY-2028-29	FY-2029-30	FY-2030-31	FY-2031-32	FY-2032-33	FY-2033-34		
Thermal+Gas	21891	660	-	-	-	1828	855	-	-	-	-	3343	25234
Nuclear	1191	-	-	-	-	-	-	-	-	-	-	-	1191
Large-Hydro	2636	183	-	109	313	104	-	-	288	323	-	1320	3956
PSP-Storage	250	-	-	750	-	1750	2074	-	-	-	-	4574	4824
Wind	2823	-	-	-	-	-	-	-	-	-	-	-	2855
Solar	4331	2095	9587	12364	1000	3000	-	-	-	-	-	28045	32377
Hybrid	-	-	300	780	3264	-	-	-	-	-	-	4344	4344
FDRE	-	-	-	1468	-	-	-	-	-	-	-	1468	1468
Bagasse+Biomass	2731	180	-	345	345	-	-	-	-	-	-	870	3601
Small Hydro	314	3	-	-	-	-	-	-	-	-	-	3	317
Total	36167	3121	9887	15816	4922	6682	2929	0	288	323	0	43967	80167

44,000 MW capacity tied up in the past 12-18 months; Power Purchase Agreements executed.



Capacity Addition: 44 GW	
Source	GW
Solar	28.0
Thermal	3.3
PSP-BSES Storage	4.6
Hybrid	4.3
FDRE	1.5
Hydro	1.3
Bagasse	0.9

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



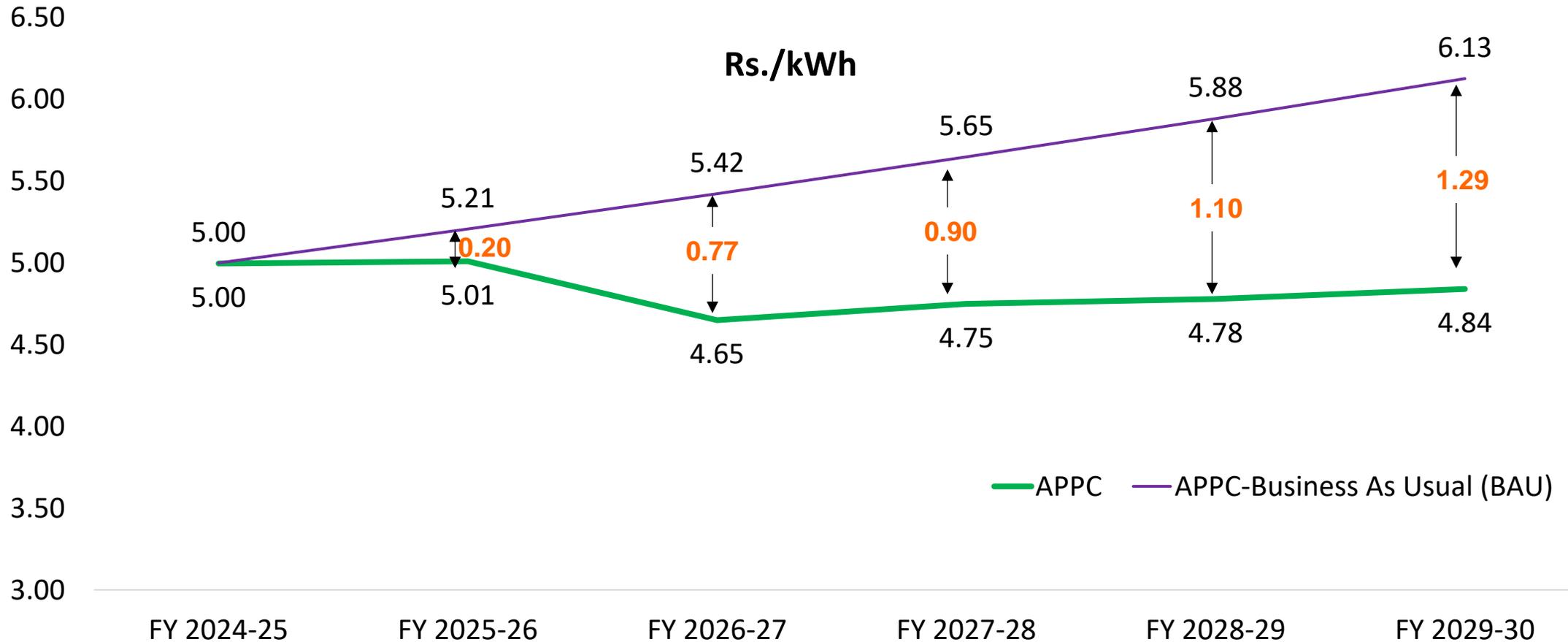
4.3 GW of solar-wind hybrid at average tariff Rs. 3.6/kWh



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 **36%** to **66%** and in terms of energy (MUs) from **13%** to **49%**
- Cost optimization will reduce ACoS benefitting in reducing tariff of Residential & Industrial Consumers

Saving in the power purchase cost is ~Rs. 66,000 Crs. over a period of next five years..



Savings in Power Purchase Cost	2,290	11,563	15,689	17,588	18,467	65,597
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