

No. PFI/Prog/MSERC/2025-26/039

Dated: 30/01/2026

To,

**Sh. E. Slong**

The Secretary  
Meghalaya State Electricity Regulatory Commission  
New Administrative Building, Left Wing, First floor,  
Lower Lachumiere, Shillong - 793001

**Subject: PFI Comments: MePDCL True Up Petition for FY 2024-25 & ARR FY 2026-27**

**Reference:** MSERC inviting Comments on petition for True Up of FY 2024-25 & ARR FY 2026-27 dated 15<sup>th</sup> January 2026

Dear Sir,

Power Foundation of India (PFI) is a Policy Research and Advocacy entity and a registered society under the aegis of Ministry of Power, Government of India. PFI is supported by leading Central Power Sector Organizations to undertake evidence-based policy research and facilitate informed decision making by the Regulators, Ministry and other concerned stakeholders.

With reference to above, PFI has analyzed the True Up Petition for FY 2024-25 and ARR FY 2026-27 by Meghalaya Power Distribution Corporation Limited before Meghalaya State Electricity Regulatory Commission. Our comments/ suggestions on the said Petition of are enclosed herewith for your consideration as *Annexure- I* respectively. We would also like to orally submit our comments/ suggestions on the day of Public Hearing through video conference.

The comments have also been emailed to [secy.mserec-meg@nic.in](mailto:secy.mserec-meg@nic.in).

Warm Regards,

**Encl:** Annexure – I

**Copy to:**

- 1. The Hon'ble Chairperson**  
Meghalaya State Electricity Regulatory Commission
- 2. The Hon'ble Member**  
Meghalaya State Electricity Regulatory Commission

Yours Sincerely,



**Anshuman Srivastava**  
(Executive Director, PFI)

**ANNEXURE-I**

**PFI Comments/Suggestions: MePDCL True-up Petition for FY 2024-25**

**A. Sales**

**A-1. Significant variation in Energy Sales**

- 1) MePDCL has claimed reduction in Energy Sales of around 550 MU from the Hon'ble Commission approved Sales.
- 2) PFI has analyzed the category wise sales and observed that certain consumer categories have shown significant reduction in sales, which is as follows:

(MU)

Consumer Category	Energy Sales approved for FY 2024-25	Actual sales claimed by DISCOM	Variation
Industrial (HT)	161.11	123.73	(23%)
Ferro Alloys (HT)	132.13	72.53	(45%)
Industrial (EHT)	318.67	46.70	(85%)
Ferro Alloys (HT)	494.18	174.14	(65%)

- 3) PFI has further analyzed the trend of sales of Industrial (HT & EHT) and Ferro Alloys (HT & EHT) in last three years and it is observed that there is significant variation in sales projected by Hon'ble Commission and Actual sales claimed by DISCOM, summary is as follows:

(MU)

Category	Sales approved FY 2022-23	Actual Sales FY 2022-23	% Variation	Sales approved FY 2023-24	Actual Sales FY 2023-24	% Variation	Sales approved FY 2024-25	Actual Sales FY 2024-25	% Variation
<b>HT Category</b>									
Industrial	151	133	-12%	181	115	-37%	161	124	-23%
Ferro Alloys	36	109	201%	38	129	242%	132	73	-45%
<b>EHT Category</b>									
Industrial	53	263	393%	116	96	-17%	319	47	-85%
Ferro Alloys	348	408	18%	344	199	-42%	494	174	-65%

- 4) It is evident from the above table that sales of Industrial (HT & EHT) and Ferro Alloys (HT & EHT) consumer category was projected without considering any past trend.
- 5) It is observed that Industrial (HT & EHT) and Ferro Alloys (HT & EHT) consumer category are subsidizing category and cross subsidized the Agriculture and Domestic consumer category. It is observed that Hon'ble Commission has projected revenue of

Rs. 785 Cr. from Industrial (HT & EHT) and Ferro Alloys (HT & EHT) consumer category while actual revenue from these categories considering same ABR as approved by Hon'ble Commission is Rs. 313 Cr., i.e., Hon'ble Commission has projected additional revenue of Rs. 471 Cr. by projecting higher sales.

Consumer Category	Approved by Hon'ble Commission			Claimed by DISCOM	PFI working
	Sales (MU)	Revenue (Rs. Cr.)	ABR (Rs./kWh)	Actual sales (MU)	Revenue (Rs. Cr.)
Industrial (HT)	161	185	11.49	124	142
Ferro Alloy (HT)	132	72	5.48	73	40
Industrial (EHT)	319	263	8.25	47	39
Ferro Alloy (EHT)	494	264	5.34	174	93
<b>Total Revenue (Rs. Cr.)</b>		<b>785</b>			<b>313</b>

- 6) It is evident from the above table that Sales in Industrial (HT & EHT) and Ferro Alloys (HT & EHT) consumer category sales are considered artificially and are mainly used to issue cost reflective tariff.
- 7) In view of above, **PFI proposed Hon'ble Commission to direct DISCOM to submit a detailed report covering reason in variation in sales of Industrial (HT & EHT) and Ferro Alloys (HT & EHT) consumer category in last 5 years.**

### **B. Prior Period Capitalization**

- 8) MePDCL has claimed capitalization of Rs. 824.30 Crore in FY 2024-25 including prior period capitalization as Rs. 773.05 Crore. MePDCL further submit that prior period capitalization amount pertains to the assets that were actually put to use but due to some constraints it was carried under CWIP till 2023-24 and the same has been capitalized in FY 2024-25, the detail is as follows:

Table 9 Scheme Wise Details of Prior Period Capitalization and Funding Pattern

Restated Capital Expenditure- Scheme Wise				
Name of Scheme	Amount Capitalized	Grants	Loan	Equity
APDRP	199.09	199.09	0.00	0.00
RAPDRP	109.81	0.00	109.81	0.00
RGGVY	212.40	47.43	0.00	164.98
DDUGJY	2.85	2.76	0.00	0.10
IPDS	26.64	25.15	1.49	0.00
ADB	222.25	222.25	0.00	0.00
<b>Total</b>	<b>773.05</b>	<b>496.68</b>	<b>111.30</b>	<b>165.08</b>

- 9) It is observed that DISCOM has booked the capitalization of assets under the GoI schemes for which DISCOM has received grants, non-timely capitalization of the assets raises concern over the working of the DISCOM. It is also observed that the Audited Accounts covers the detail of the same in one para only without covering details of grants, loan and equity portion in each type of asset along with reason of such delay. Further, sudden addition to huge capitalization will pass on the additional burden to the consumers with increase in Return on Equity, Interest on Loan and Depreciation.
- 10) In view of above, **PFI requests the Hon'ble Commission to provisionally allow the additional capitalization claimed by DISCOM, however the same should be verified by the Hon'ble Commission through the process of physical verification of assets and document verification of the relevant documents to verify the claim.**

### C. Grant considered against Capitalization

- 11) MePDCL submitted the details of financing of the claimed Capitalization of Rs. 823.48 Cr. into Grant, Loan & Equity in Table 11 of the Petition and highlighted Grants of Rs. 543.27 Cr. However, DISCOM in para 4.3 of the Petition mentioned that actual grant considered is Rs. 296.76 Cr. as grants under APDRP received before FY 2012-13 and grants for RGGVY received during the period of FY 2012-13 to FY 2018-19 and submitted Auditor Certificate for the same. Relevant extract are as follows:

Table 11 Scheme Wise Capitalization (Combined) and Funding Pattern

Current Capital Expenditure- Combined				
Name of Scheme	Amount Capitalized	Grants	Loan	Equity
APDRP	199.09	199.09	0.00	0.00
RAPDRP	109.81	0.00	109.81	0.00
RGGVY	212.40	47.43	0.00	164.98
DDUGJY	2.85	2.76	0.00	0.10
IPDS	26.64	25.15	1.49	0.00
ADB	268.85	268.85	0.00	0.00
Direct Capitalization	3.83	0.00	0.00	3.83
<b>Total</b>	<b>823.48</b>	<b>543.27</b>	<b>111.30</b>	<b>168.91</b>

#### 4.3 MOVEMENT OF GRANTS AND FUNDING PATTERN

As explained in detail in Chapter 2 MePDCL would like to submit that the capital structure and funding pattern has been considered strictly on the methodology approved by the Hon'ble Commission in true up of FY 2022-23 and FY 2023-24. However, MePDCL would like to submit that out of the grants of Rs. 543.27 Crore in the funding pattern shown in Table 11 above, the grant of Rs.296.76 Crore has been considered in the addition of grants. The reason behind this deviation is that the grants related to APDRP were received before FY 2012-13 and Grants related to RGGVY were received from the period 2012-13 to 2018-19. The

- 12) Further, MePDCL has submitted Auditor Certificate w.r.t. scheme-wise and year-wise Grant received by DISCOM from FY 2012-13 to FY 2024-25 as Annexure E with the Petition.
- 13) **PFI observed that the grants claimed by DISCOMs in Table 11 and Auditor certificate does not match.**
- 14) Further, it is evident from the MePDCL submission that they have received the grants on timely basis for adding assets under Central Govt. schemes, however they have not capitalized the assets installed from the Grants. In view of above, the claim of DISCOM of considering grant as Rs. 297 Cr. against the actual grant of Rs. 543 Cr. should not be considered by the Hon'ble Commission.

- 15) Thus, **PFI requests the Hon’ble Commission to consider Grant as Rs. 543 Cr. instead of DISCOM claim of Rs. 297 Cr.**

**D. Power Purchase Cost**

**D-1. Merit Order Despatch Adherence**

- 16) MP DISCOMs has claimed that they have adhered Merit Order Despatch (MoD) while procuring power subject to must run profile, technical minimum and market availability to meet the increasing demand.
- 17) However, PFI observes that MePDCL has not submitted monthly reports certified by Meghalaya SLDC that Merit Order Despatch principle has been followed in true spirit while scheduling the Power from various Generating Stations. Therefore, it is requested to Hon’ble Commission to direct MePDCL to submit the details along with certification from Meghalaya SLDC that MoD has been followed in true letter and spirit.

**D-2. Variation from Commission Projection- Unapproved PPA, Free Power and Costly Power Procurement**

- 18) MePDCL has claimed Power Purchase Cost of Rs. 1,245 Cr. at an Average Power Purchase Cost of Rs. 4.68/kWh.
- 19) Hon’ble Commission has approved average Power Purchase Cost as Rs. 4.28/kWh excluding Transmission charges. PFI has analyzed the Power Purchase Cost claimed by DISCOM and observed that DISCOM has deviated from the Hon’ble Commission approved Power Purchase Cost. Summary of the same is as follows:

<b>Plant Name</b>	<b>Approved by Hon’ble Commission (Quantum and Avg. Cost)</b>	<b>Claimed by DISCOM (Quantum and Avg. Cost)</b>	<b>Variation (Quantum and Avg. Cost)</b>	<b>PFI remark</b>
Ganol Prior Period (CoD to Mar 2024)	Not considered	28 MU Rs. 4.77/kWh	28 MU Rs. 4.77/kWh	Details of PPA approval by Hon’ble Commission and COD

Plant Name	Approved by Hon'ble Commission (Quantum and Avg. Cost)	Claimed by DISCOM (Quantum and Avg. Cost)	Variation (Quantum and Avg. Cost)	PFI remark
				details not provided
Bongaigaon	313 MU Rs. 6.11/kWh	401 MU Rs. 7.13/kWh	88 MU Rs. 1.02/kWh	Reason of high procurement from costlier plant
Free Power	26 MU Zero cost	Not procured	(26 MU)	Reason for not procuring Free Power

- 20) In view of above, **PFI requests the Hon'ble Commission to direct DISCOM to submit the reason of not procuring Free Power, procuring power from un-approved Plant i.e., Ganol and procuring costlier power.** Further, PFI requests the Hon'ble Commission to not consider Rs. 12.09 Cr. (26 MU x Rs. 4.68/kWh APPC) against non-procurement of Free Power.

(Rs. Cr.)

Particular	Claimed by DISCOM	Proposed by PFI	Difference
Power Purchase Cost	1245	1233	(12)

### **D-3. Power Purchase Cost**

- 21) MePDCL has claimed Total Power Purchase Cost as Rs. 1560 Cr.
- 22) PFI has observed that as per Note 26 of Audited Accounts, actual Power Purchase Cost is Rs. 1462 Cr. It is observed that MePDCL has claimed that there were lot of discrepancies in the billing system. The relevant extract is as follows:

Thus based on the actual sales in FY 2024-25, FPPAS of Rs. 54.90 Crore should have been passed on to the consumers. However, MePDCL would like to submit that since FPPAS was implemented for the first time and there were a lot of discrepancies in the billing system and data collated for the computation of FPPAS as MePDCL was having only 3 months for correction of these discrepancies. Hence, the FPPAS passed on the consumers for Power Purchase of FY 2024-25 is tabulated below:

23) DISCOM has considered the impact of differential Power Purchase Cost, FPPAS passed on to consumers, differential PPC, DSM, Barter transaction while considering the Total Power Purchase Cost for FY 2024-25. Relevant extract is as follows:

**Table 22 Final Claim of Power Purchase Expenses for FY 2024-25**

Particular	Amount
Power Purchase Expenses (Approved for FY 2024-25)	1554.68
Differential Power Purchase Cost	(-)92.89
FPPAS Passed on to Consumers	(-)23.12
Net Differential PPC	(-)69.77
<b>Power Purchase Cost for True Up W/O Adjustments of Items not covered under FPPAS.</b>	<b>1484.91</b>
Add: DSM	23.22
Add: Reversal of the Barter Transaction for FY 2023-24	37.13
Add: New Provision for the Barter Transaction in FY 2024-25	14.26
<b>Power Purchase Cost for ARR</b>	<b>1559.52</b>

24) In view of above, **PFI request Hon’ble Commission to consider the Power Purchase Cost as per the Audited Accounts i.e., Rs. 1462 Cr.,** and any fault of DISCOM in billing or data collection should not be passed on to the consumers. The balance may be borne by Govt. of Meghalaya in the form of subsidy.

**D-4. Renewable Purchase Obligation**

25) MePDCL has not submitted any detailed information regarding its source-wise Renewable Purchase, RPO compliance and shortfall if any, as part of the present petition for FY 2024-25 with the Petition.

26) Further, with respect to Hon’ble Commission RPO trajectory, it is submitted that energy transition is the need of the hour and in order to achieve the Country’s target of 500 GW of RE by 2030 and Net Zero by 2070, it is important that every designated consumer including DISCOM should procure Renewable Energy at least equivalent to meet the yearly RPO Targets. In last few years the share of Renewable Energy has increased significantly which resulted in the concern of grid stability due to intermittent nature of RE and raised the challenges of providing Round the Clock power at affordable prices. To overcome these concerns, Renewable Energy Implementing Agencies like SECI have evolved from plain Vanilla tenders (procuring only Solar or wind energy) to the new age Tenders like RTC or FDRE (Firm & Dispatchable Renewable Energy) Tenders assuring providing round the clock power or peak power through Renewable plus storage combination. The intent of National

RPO target is to provide firm and dispatchable renewable energy by providing power through Solar, Wind, Hydro, other Renewable Energy sources and Energy Storage. Further to save the transmission loss and charges, it is also important to have Distributed Renewable Energy to meet the load at the injecting point.

- 27) The prime motive of RPO is to increase share of Renewable energy in the total consumption and in order to promote different sources MoP have come up with technology wise targets. Further, considering the cost and transmission congestion, MoP introduced Distributed Renewable Energy (DRE) Target which include renewable projects upto 10 MW. The prime objective of the introducing DRE is to promote the local available RE and to save the related Transmission network cost, charges and Loss. The Renewable Energy (Solar & Wind) are mostly dominated in 6-7 States like Gujarat, Rajasthan, Tamil Nadu, Andhra Pradesh, etc., due to higher solar irradiance and wind density resulting higher CUF and higher power generation. However, to transmit that energy to the State like Arunachal Pradesh, DISCOMs need to pay ISTS charges and to develop InSTS network, but in case the renewable energy is within the State, DISCOMs does not need to pay ISTS charges which is in the range of 50-70 paisa/kWh and transmission losses, resulting reduction in power procurement cost. PFI has analyzed that the positive impact of higher CUF get nearly nullified considering impact of interstate transmission system and intra-state transmission system losses. Thus, PFI requests the Hon'ble Commission and DISCOM to promote DRE in the State.
- 28) It is evident from the above paras that every source is important to provide round the clock power and have minimum impact on grid.
- 29) In view of above, PFI requests the **Hon'ble Commission to direct DISCOM to submit comprehensive and verified details of its RPO compliance for FY 2024-25, and if there is a shortfall and impose penalty on non-compliance of RPO targets as per buyout price of Rs. 245/MWh proposed by Hon'ble CERC vide its suo-moto Order 22/10/2025.**

#### **E. Interest on Loan**

- 30) Discom has claimed Interest on Loan as Rs 12.51 Cr. after considering the loan addition of Rs. 368.70 Cr. as computed in Table 12 after considering Grant as Rs. 297 Cr.
- 31) PFI has recomputed the Interest on Loan in line with the above para wherein PFI has highlighted that grant is received on time and it is the DISCOM inefficiency or fault in capitalizing the assets in FY 2024-25, which is as follows:

(Rs. Cr.)

Particular	Claimed by DISCOM	Proposed by PFI
Net Normative Loan Opening	180.57	180.57
Addition	368.70	111.30
Repayment	18.60	12.53
Net Normative Loan Closing	530.68	279.34
Average Normative Loan	355.62	229.96
Weighted Average Rate of Interest	3.52%	3.52%
<b>Interest on Loan</b>	<b>12.51</b>	<b>8.09</b>

- 32) Accordingly, **PFI requests the Hon'ble Commission to consider Interest on Loan as Rs. 8.09 Cr.** instead of claim of Rs. 12.51 Cr. The balance may be borne by Govt. of Meghalaya in the form of subsidy.

#### **F. Return on Equity**

- 33) Discom has claimed Return on Equity as Rs 15.83 Cr. after considering equity as Rs. 113.05 Cr. as computed in Table 23 after considering Grant as Rs. 297 Cr.
- 34) PFI has recomputed the Return on Equity in line with the above para wherein PFI has highlighted that grant is received on time and it is the DISCOM inefficiency or fault in capitalizing the assets in FY 2024-25, which is as follows:

(Rs. Cr.)

Particular	Claimed by DISCOM	Proposed by PFI
Opening GFA	1495.81	1495.81
Addition	824.30	824.30
Retirement	0.83	0.83
Closing GFA	2319.29	2319.29
Average GFA	1907.55	1907.55

Particular	Claimed by DISCOM	Proposed by PFI
Less: Average Grants	1530.73	1653.99
<b>Net Average Assets Not Funded by Grants</b>	<b>376.82</b>	<b>253.56</b>
<b>Average Debt Component (70%)</b>	<b>263.77</b>	<b>177.49</b>
<b>Average Equity Component (30%)</b>	<b>113.05</b>	<b>76.07</b>
Rate of Return on Equity	14.00%	14.00%
<b>Return on Equity @14%</b>	<b>15.83</b>	<b>10.65</b>

- 35) Accordingly, **PFI requests the Hon'ble Commission to consider Return on Equity as Rs. 10.65 Cr.** instead of claim of Rs. 15.83 Cr. The balance may be borne by Govt. of Meghalaya in the form of subsidy.

### G. Depreciation

- 36) Discom has claimed Depreciation as Rs 18.60 Cr. after considering Grant as Rs. 297 Cr.
- 37) PFI has recomputed the Depreciation in line with the above para wherein PFI has highlighted that grant is received on time and it is the DISCOM inefficiency or fault in capitalizing the assets in FY 2024-25, which is as follows:

(Rs. Cr.)

Particular	Claimed by DISCOM	Proposed by PFI
Depreciation during the year	93.97	93.97
WAROD	5.47%	5.47%
90% of Average Grants	1377.66	1488.59
Depreciation on Grants	75.38	81.44
<b>Net Depreciation</b>	<b>18.60</b>	<b>12.53</b>

- 38) Accordingly, **PFI requests the Hon'ble Commission to consider Depreciation as Rs. 12.53 Cr.** instead of claim of Rs. 18.60 Cr. The balance may be borne by Govt. of Meghalaya in the form of subsidy.

### H. Compensation on Injury, death & damage

- 39) PFI observes that DISCOM has claimed expense of Rs. 0.34 Cr. related to Compensation on injury, death & damage in the Petition without relevant details.

40) In this regard, PFI observes that Section 57 (2) and Section 59 (1) of the Electricity Act 2003 focus on two key points i.e., Compensation and Furnishing Case-wise information. Relevant sections are as follows:

*“Section 57. (Consumer Protection: Standards of performance of licensee):*

*(1) The Appropriate Commission may, after consultation with the licensees and persons likely to be affected, specify standards of performance of a licensee or a class of licensees.*

*(2) If a licensee fails to meet the standards specified under sub-section (1), without prejudice against any penalty which may be imposed or prosecution be initiated, he shall be liable to pay such compensation to the person affected as may be determined by the Appropriate Commission:*

*Provided that before determination of compensation, the concerned licensee shall be given a reasonable opportunity of being heard.*

...

*Section 59. (Information with respect to levels of performance):*

*(1) Every licensee shall, within the period specified by the Appropriate Commission, furnish to the Commission the following information, namely:-*

*(a) the level of performance achieved under sub-section (1) of the section 57;*

*(b) the number of cases in which compensation was made under subsection (2) of section 57 and the aggregate amount of the compensation.”*

41) Conjoint reading of Section 57 & Section 59 leads to the conclusion that DISCOMs need to submit case-by-case details to the Commission and the Commission will determine the compensation only after going through the merits of each case.

42) Further, Hon’ble APTEL vide its Judgment<sup>1</sup> dated 27/09/2012 in Appeal No.141 of 2012 provided clarification of Section 57(2) stating that SERCs will determine compensation on a case-by-case basis after analyzing the failure in meeting standard of performance and other details, relevant extract from said judgement is as follows:

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<sup>1</sup>[https://www.aptel.gov.in/judgements/Judgment%20in%20APPEAL%20No.141%20of%202012\\_Replace\\_27092012\\_ssi.pdf](https://www.aptel.gov.in/judgements/Judgment%20in%20APPEAL%20No.141%20of%202012_Replace_27092012_ssi.pdf)

*“Section 57(2) provides for a case-by-case determination of compensation. Such compensation has to be paid to the affected person. This will make it clear that the State Commission will have to determine on the basis of allegation that a particular standard of performance had been violated, as to how and what extent the person has been affected due to such violation.”*

- 43) It is pertinent to note that all penalties and compensation payable by the DISCOM to any party for failure to meet any Standards of Performance or for damages, as a consequence of the orders of the Commission, Courts, Consumer Grievance Redressal Forum, and Ombudsman, etc., should not be allowed to be recovered through the Aggregate Revenue Requirement.
- 44) In view of above, PFI proposes the Hon'ble Commission direct DISCOM to submit case-by-case reason of accident and allow pass through of compensation, if any, only in cases where the reason is not attributable to the DISCOM. For rest of the cases, the compensation to be paid by Govt. of Meghalaya to DISCOM in form of subsidy.

## **I. Interest on Working Capital**

- 45) Discom has claimed IoWC as Rs 33.93 Cr.
- 46) IoWC is computed as per Regulation 34.3 of the Meghalaya State Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2014, which is as follows:

### **34.3 Distribution Business**

(i) The Distribution Licensee shall be allowed interest on the estimated level of working capital for the Distribution Business for the financial year, computed as follows:

- Operation and maintenance expenses for one month; plus
- Maintenance spares at one (1) per cent of the historical cost escalated at 6% from the date of commercial operation; plus
- Receivables equivalent to two (2) months of the expected revenue from charges for use of Distribution at the prevailing tariffs; minus

Interest shall be allowed at a rate equal to the State Bank Advance Rate (SBAR) as on 1<sup>st</sup> April of the financial year in which the Petition is filed.

47) PFI has observed that DISCOM has not computed the IoWC in line with the Regulation and considered Receivables as ARR instead of Revenue from Sale of Power. Accordingly, PFI has recomputed the IoWC in line with the Regulation, which is as follows:

<b>Particular</b>	<b>Claimed by DISCOM</b>	<b>Proposed by PFI</b>
O&M Expenses (1 Month)	19.16	19.14
Maintenance Spares	15.86	15.86
Receivables	191.19	166.76
<b>Total</b>	<b>226.21</b>	<b>201.75</b>
<b>Rate of Interest</b>	<b>15%</b>	<b>15%</b>
<b>IOWC</b>	<b>33.93</b>	<b>30.26</b>

48) Accordingly, **PFI requests the Hon'ble Commission to consider IoWC as Rs. 30.26 Cr. instead of claim of Rs. 33.93 Cr.** The balance may be borne by Govt. of Meghalaya in the form of subsidy.

### **J. Non-Tariff Income**

49) PFI notes that the MePDCL has considered DPC collected from consumers while computing Non-Tariff Income (NTI) for the relevant financial years. PFI submits that DPC is levied on consumers for delayed payment of electricity bills and does not have any direct nexus with the provision of electricity supply.

50) PFI submits before Hon'ble Commission that Hon'ble APTEL in its judgment dtd. 28/11/2013 in Appeal Nos. 14 of 2012 in the matter of NDPL VS DERC has decided that LPSC received by DISCOMs from the consumers shall be treated as NTI and its Financing Cost has to be allowed by Commission. Relevant extract of the said Judgment is as follows:

*"131. The Submissions made by the Appellant on this Issue are as under:*

*a) LPSC is levied on consumers who pay their bill after the due date. LPSC received by the distribution licensee is treated as Non-Tariff Income under Regulation 5.23 of the MYT Regulations and the same is deducted to arrive at the ARR. Regulation 5.23 provides as follows:*

*b) "5.23. All incomes being incidental to electricity business and derived by the Licensee from sources, including but not limited to profit derived from disposal of*

*assets, rents, delayed payment surcharge, meter rent (if any), income from investments other than contingency reserves, miscellaneous receipts from the consumers and income to licenses business from the other Business of the Distribution Licensee shall constitute Non-Tariff Income of the Licensee.”*

51) Based on the above, PFI has computed the financing cost of LPSC, as follows:

(Rs. Cr.)

<b>Particulars</b>	<b>Proposed by PFI</b>
Delayed payment charges from Consumers	30.07
Late Payment Surcharge @18%	167.08
Less: Financing Cost @ 15%	25.06

52) PFI based on the methodology shown in the aforementioned APTEL Judgement has computed NTI for MePDCL based on their Audited Accounts for FY 2024–25 as Rs. 5.01 Cr. (30.07-25.06).

(Rs. Cr.)

<b>Particular</b>	<b>Claimed by DISCOM</b>	<b>Proposed by PFI</b>
Revenue from Wheeling CSS	38.53	38.53
Meter Rent	0.52	0.52
Reconnection Fees	0.02	0.02
DPC Collected from Consumers	30.07	5.01
Rebate on Power Purchase	22.22	22.22
Other Charges from Consumers	15.97	15.97
Interest Income From Banks	8.97	8.97
Interest Income from Others	0.02	0.02
Rental and Hiring Income	0.01	0.01
Sale of Scrap	0.25	0.25
Misc. Income	11.98	11.98
Revenue Grants for Other Expenditure	32.45	32.45
<b>Total</b>	<b>161.01</b>	<b>135.95</b>

53) **In view of above, PFI requests the Hon’ble Commission to consider Non – Tariff Income as Rs. 136 Cr. against the claimed of Rs. 161 Cr.** the balance may be borne by the Govt. of Meghalaya in the form of subsidy.

**K. Summary of MePDCL True-up for FY 2024-25**

54) As stipulated in above Sections, summary of True-Up for FY 2024-25 of MePDCL is as follows. Hon'ble Commission is requested to kindly consider the same.

Sr. No.	Particulars	Claimed by DISCOM	Proposed by PFI	Difference
1	Sales	1404.09	1404.09	
2	Distribution Loss	16.60%	16.60%	
3	Power Purchase Cost	1,560	1,450	(110)
4	Operation & Maintenance (O&M) Expenses	230	230	(0)
5	Return on Equity (RoE)	16	11	(5)
6	Interest on Finance Charges	13	8	(4)
7	Interest on Working Capital	34	30	(4)
8	Depreciation	19	13	(6)
<b>9</b>	<b>Aggregate Revenue Requirement (ARR)</b>	<b>1,870</b>	<b>1,741</b>	<b>(129)</b>
10	Less: Revenue from Sale of Surplus	562	562	0
11	Less: Other Income	161	136	(25)
<b>12</b>	<b>Net ARR</b>	<b>1,147</b>	<b>1,043</b>	<b>(104)</b>
13	Add: Reversal of Revenue on Acc of ST	35	35	0
14	Add: DPC Billed on Account of ST	5	5	0
15	Add: Gap on Account of Review FY 2022-23	56	56	0
<b>16</b>	<b>Total True Up ARR</b>	<b>1,430</b>	<b>1,326</b>	<b>(104)</b>
17	Revenue	1,001	1,001	0
<b>18</b>	<b>Standalone (Gap)/Surplus</b>	<b>(430)</b>	<b>(326)</b>	<b>104</b>

55) In view of above, PFI requests the Hon'ble Commission to consider the submissions made by PFI and as part of the Prudence Check. **Further, it is observed that DISCOM has Revenue Gap of Rs. 326 Cr. instead of projected Revenue Gap of Rs. 430 Cr. PFI requests the Hon'ble Commission to kindly consider the same.** The elements of ARR which are not as per Regulatory provisions may not be passed on to the consumers of Meghalaya, rather it should be borne by Govt. of Meghalaya in the form of subsidy. **Accordingly, the Govt. of Meghalaya should provide additional subsidy of Rs. 104 Cr. to MePDCL.**

**PFI Comments/Suggestions: MePDCL ARR Petition for FY 2026-27**

**L. Monthly Demand, Power Quantum & Power Purchase Cost Projection**

- 56) Power Purchase Cost accounts for 70-80% of the ARR of any DISCOM and therefore DISCOM as well as the Commission focus on optimizing the same which resulted into introduction of Merit Order Despatch principle and Resource Adequacy planning. Further, the Indian Power Sector is very dynamic and changing frequently with increase in renewable energy share resulting crash of short-term prices at Power exchange during the solar hours, Green Energy Open Access, tremendous growth in Rooftop solar/PM-Surya Ghar, deployment of Energy storage, etc. have impacted the process of demand projection and accordingly the power procurement. This mandates DISCOMs to cover such factors while projecting the sales and corresponding power procurement while filing the Tariff Petitions after considering hourly or at least monthly energy balance and monthly power purchase quantum and cost, which has not been observed in the case of MePDCL Tariff Petition, wherein it has been noticed that State like Madhya Pradesh and Andhra Pradesh, the Tariff Petition include the projection of Power Purchase Quantum and Cost on monthly format basis and they also submit details related to MoD even in the projection part, the relevant pages from the Petitions are attached as **Appendix 1 & 2.**
- 57) Further, it is also observed that DISCOM has completed the Power Purchase Cost section in 3-4 pages only without submitting the basic details like assumptions considered for projecting plant-wise quantum like Capacity, DISCOM share, PLF, Minimum Technical Limit, annual overhauling/maintenance schedule, past generation trend, CERC/Commission Order for projecting Fixed Charges, etc. like other DISCOMs submit with the Petitions.
- 58) Hence, **it is requested to the Hon'ble Commission to direct DISCOMs to resubmit such details to the Commission and the same may be approved after prudence check of the details submitted by the DISCOMs.**

**M. Sales Projection**

- 59) MePDCL has claimed sales of 2196 MU for FY 2026-27 as approved by Hon'ble Commission in its Tariff Order dated 24/10/2024.
- 60) PFI has analyzed the projected sales by DISCOM and actual trend of sales in last few years i.e., FY 2022-23 to FY 2024-25, it is observed that there was huge variation between the projected sales and the actual sales. The same was also observed in the current Petition for FY 2024-25, wherein Hon'ble Commission approved the sales of 1955 MU while actual sales is only 1404 MU i.e., variation of 550 MU or 28%. It is evident from the variation that either the projection methodology proposed by DISCOM was without any historical trend or DISCOM has not considered the policy or market scenarios while projecting the sales. The summary of actual sales trend in FY 2022-23 to FY 2024-25 is as follows:

(MU)

Sr. No.	Category	FY 2022-23		FY 2023-24		FY 2024-25	
		Sales Approved	Actual Sales	Sales Approved	Actual Sales	Sales Approved	Actual Sales
	<b>LT Category</b>						
1	Domestic	405	430	409	438	417	476
2	Commercial	77	97	79	104	99	132
3	Industrial	6	7	6	7	7	7
4	Agriculture	1	0	1	0	0	0
5	Public Lighting	0	1	0	1	1	2
6	Water Supply	13	10	14	9	10	10
7	General purpose	18	17	18	18	15	20
8	Kutir Jyoti	87	139	87	141	123	156
9	Crematorium	0	0	0	0	0	0
	<b>HT Category</b>						
1	Domestic	25	22	26	22	24	25
2	Water Supply	33	35	34	39	39	40
3	Bulk Supp	104	78	111	81	81	76
4	Commercial	28	31	28	35	32	43
5	Industrial	151	133	181	115	161	124
6	Ferro Alloys	36	109	38	129	132	73
7	Special tariff	99	0	0	0	0	0
	<b>EHT Category</b>						
1	Industrial	53	263	116	96	319	47
2	Ferro Alloys	348	408	344	199	494	174
3	Special tariff	65	0	0	0	0	0
	<b>Total</b>	<b>1547</b>	<b>1781</b>	<b>1492</b>	<b>1434</b>	<b>1955</b>	<b>1404</b>

Sr. No.	Category	FY 2022-23		FY 2023-24		FY 2024-25	
		Sales Approved	Actual Sales	Sales Approved	Actual Sales	Sales Approved	Actual Sales
	<b>Variation in Projected vs Actual (MU)</b>		234		(58)		(550)
	<b>Variation in Projected vs Actual (%)</b>		15%		(4%)		(28%)

61) Further, PFI has also analyzed the variation on Y-o-Y basis in projected sales and actual sales, the summary is as follows:

(MU)

Sr. No.	Category	Approved Sales		Actual Sales	
		FY 24 vs FY 23	FY 25 vs FY 24	FY 24 vs FY 23	FY 25 vs FY 24
	<b>LT Category</b>				
1	Domestic	1.02%	2.09%	1.90%	8.83%
2	Commercial	2.50%	24.35%	8.05%	26.22%
3	Industrial	2.09%	4.42%	(5.14%)	5.13%
4	Agriculture	37.18%	(86.92%)	0.00%	5.00%
5	Public Lighting	0.00%	850.00%	23.30%	21.26%
6	Water Supply	8.39%	(28.49%)	(8.23%)	8.63%
7	General purpose	0.00%	(11.87%)	1.43%	12.30%
8	Kutir Jyoti	1.01%	40.35%	1.70%	10.71%
9	Crematorium	4.55%	(17.39%)	5.56%	(15.79%)
	<b>HT Category</b>				
1	Domestic	1.39%	(5.53%)	(1.22%)	12.14%
2	Water Supply	1.56%	14.32%	11.42%	1.12%
3	Bulk Supp	6.89%	(26.55%)	4.28%	(5.89%)
4	Commercial	0.54%	15.17%	13.05%	23.26%
5	Industrial	20.14%	(10.94%)	(14.03%)	8.01%
6	Ferro Alloys	3.58%	251.60%	17.77%	(43.60%)
7	Special tariff				
	<b>EHT Category</b>				
1	Industrial	117.82%	173.91%	(63.49%)	(51.44%)
2	Ferro Alloys	(0.90%)	43.49%	(51.32%)	(12.41%)
3	Special tariff				
	<b>Total</b>	(3.58%)	31.00%	(19.50%)	(2.09%)

62) It is evident from the above tables that DISCOM fails to perform their duties to project or forecast sales in line with Resource Adequacy guidelines and lacks the capability of forecasting category-wise sales or tries to artificially project revenue gap by projecting higher sales and corresponding revenue and claim carrying cost on actual revenue gap arose due to lower sales from the projected sales.

- 63) Further, it is also observed that for FY 2026-27, DISCOM has considered the sales as approved by the Hon'ble Commission in its Tariff Order dated 24/10/2024 which are 2196 MU i.e., increase of approx.. 800 MU (25% growth as per 2-year CAGR).
- 64) In view of unscientific sales projection for FY 2026-27, PFI has projected the sales for FY 2026-27 by considering average of actual sales in FY 2022-23, FY 2023-24 & FY 2024-25 and escalate the same by 5%. Accordingly, PFI has computed the sales as follows:

Sl. No	Category	Actual Sales FY 2022-23	Actual Sales FY 2023-24	Actual Sales FY 2024-25	Avg. of past 3 years	Sales for FY 2026-27
	<b>LT Category</b>					
1	Domestic	430	438	476	448	470
2	Commercial	97	104	132	111	116
3	Industrial	7	7	7	7	8
4	Agriculture	0	0	0	0	0
5	Public Lighting	1	1	2	1	1
6	Water Supply	10	9	10	9	10
7	General purpose	17	18	20	18	19
8	Kutir Jyoti	139	141	156	145	153
9	Crematorium	0	0	0	0	0
	<b>HT Category</b>					
1	Domestic	22	22	25	23	24
2	Water Supply	35	39	40	38	40
3	Bulk Supp	78	81	76	78	82
4	Commercial	31	35	43	36	38
5	Industrial	133	115	124	124	130
6	Ferro Alloys	109	129	73	103	109
7	Special tariff	0	-	-	0	0
	<b>EHT Category</b>					
1	Industrial	263	96	47	135	142
2	Ferro Alloys	408	199	174	260	273
3	Electric Vehicle	0	0	0	0	9
4	New Shillong	0	0	0	0	42
	<b>Total</b>	<b>1,781</b>	<b>1,434</b>	<b>1,404</b>	<b>1,540</b>	<b>1,667</b>

- 65) Accordingly, **PFI requests the Hon'ble Commission to consider the sales of 1,667 MU for FY 2026-27 by considering average of actual sales of FY 2022-23, FY 2023-24 & FY 2024-25 and escalating the same by 5%.** Further, PFI requests the

Hon'ble Commission to direct the DISCOM to submit the detailed report for variation in category wise sales projected and actual sales.

**N. Revenue**

66) DISCOM has claimed the revenue of Rs. 1,779 Cr. after considering the sales of 2,196 MU.

67) PFI in the above para has recomputed the sales for FY 2026-27 as the variation in projected sales and actual sales in past years are huge. Accordingly, PFI has recomputed the revenue for FY 2026-27 considering the same Average Billing Rate as considered by DISCOM for computation of Revenue. The summary if as follows:

Sr. No.	Category of Consumer	Projected by DISCOM			Proposed by PFI	
		Sales (MU)	Revenue (Rs. Cr.)	ABR (Rs./kWh)	Sales (MU)	Revenue (Rs. Cr.)
	<b>LT Category</b>					
1	Domestic (DLT)	425	304	7	470	337
2	Commercial (CLT)	113	110	10	116	113
3	Industrial (ILT)	7	7	10	8	8
4	Agriculture (Ape)	0	0	5	0	0
5	Public Lighting (PL)	1	1	10	1	1
6	Water Supply (WSLT)	11	10	9	10	9
7	General Purpose	16	16	10	19	20
8	BPL	135	65	5	153	74
9	Crematorium (CRM)	0	0	6	0	0
	<b>HT Category</b>					
1	Domestic HT	26	26	10	24	23
2	Water Supply (WSHT)	43	42	10	40	40
3	Bulk Supply (BS)	85	86	10	82	83
4	Commercial (CHT)	34	34	10	38	38
5	Industrial (IHT)	195	190	10	130	127
6	Ferro Alloy	160	111	7	109	76
	<b>EHT Category</b>					
1	Industrial (EHT)	351	359	10	142	146
2	Ferro Alloy (EHT)	544	374	7	273	188
3	Electric Vehicle	9	7	8	9	7
4	New Shillong	42	36	9	42	36
	<b>Total</b>	<b>2,196</b>	<b>1,779</b>		<b>1,667</b>	<b>1,325</b>

- 68) Accordingly, **PFI requests the Hon'ble Commission to consider the revenue of Rs. 1,325 Cr. for FY 2026-27** against the claim of Rs. 1,779 Cr. The balance may be borne by Govt. of Meghalaya in the form of subsidy.

#### **O. Power Purchase Cost**

- 69) PFI like to appreciate the efforts of the DISCOM in proposing the Power Purchase Cost for FY 2026-27 after considering the impact of recent MoF Notification No.9/2025-Central Tax (Rate) dated 17/09/2025, which has increased the GST rate on coal from 5% to 18%; and Notification No. 2/2025-Compensation Cess (Rate) dated 17/09/2025, which has abolished the Compensation Cess of Rs. 400/MT, with effect from 22/09/2025.
- 70) It is appreciated that DISCOM has taken the scientific way for projecting Energy Charge Rate (ECR) for each plant by considering actual ECR of H1 of FY 2025-26 and considering the impact of reduction in ECR of Thermal (Coal) Power Plants due to abolition of Coal cess.
- 71) PFI also like to submit that till now MePDCL is the only DISCOM which has considered the impact of abolition of Coal cess and increase in GST on Coal and computed the actual impact of the same on ECR.
- 72) PFI till now has submitted comments on ARR Petition of multiple States like Assam, Arunachal Pradesh, Haryana, Bihar, Madhya Pradesh, Punjab, Himachal Pradesh, Uttarakhand, etc., wherein PFI has requested the SERCs to reduce any escalation in ECR of Thermal (Coal) Power Plants or reduce the ECR by 10 paisa/kWh due to non-availability of the data for FY 2025-26. The same is as follows:
- 73) PFI Comments on ARR FY 2026-27 by [Department of Power, Arunachal Pradesh](#)

**J. POWER PURCHASE COST PROJECTION**

- 54) DoP, AP has considered an escalation of 5% on power purchase cost of FY 2024-25 for all generating stations.
- 55) It is submitted that the Central Government, vide MoF Notification No.9/2025-Central Tax (Rate) dated 17/09/2025, has increased the GST rate on coal from 5% to 18%; and vide Notification No. 2/2025-Compensation Cess (Rate) dated 17/09/2025, has abolished the Compensation Cess of Rs. 400/MT, with effect from 22/09/2025. The abolition of the Compensation Cess and the increase in the GST rate on coal have impact on the cost of coal to be procured by the generating companies. Hon'ble CERC vide its suo-moto order dated 1/10/2025, has mentioned that changes due to GOI notifications dated 17/09/2025, squarely fall within the ambit of a change in law event and will be applicable to all PPAs having a composite scheme and covered under Section 63 of the Act, except in case of the generating companies having captive coal mines.

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**PFI Comments: DoP, AP True-up FY 2024-25 and ARR FY 2026-27**



- 56) It is expected that rationalisation of GST rates on coal from 5% to 18% and removal of compensation cess of Rs. 400 per ton, will reduce the cost of generation for coal-based power generators. Further, Ministry of Coal estimated that impact of the new reform on coal pricing and the power sector is a substantial reduction in overall tax burden, with coal grades G6 to G17 seeing decreases in the range of Rs. 13.40 per tonne to Rs. 329.61 per tonne. For the power sector, the average reduction is estimated to be around Rs. 260 per tonne, translating into a cut of 17-18 paise per kWh in the cost of generation.
- 57) Therefore, it will not be prudent to escalate the ARR of FY 2026-27 and allow upfront loading in Tariff, due to increased Power Purchase Cost, for the consumers of Arunachal Pradesh.
- 58) In view of above, PFI request to the Hon'ble Commission to consider Power Purchase Cost for FY 2026-27 as submitted by DoP, AP for FY 2024-25 without any escalation.

- 74) PFI comments on ARR FY 2026-27 by [Assam Power Distribution Corporation Ltd.](#)

**L. Power Purchase Cost**

- 61) APDCL has claimed that they have considered same Fixed Cost for the APGCL and Central Generating Stations (North-Eastern & Eastern Region) equal to the actual fixed cost incurred during FY 2024-25. Further, APDCL has considered Energy Charge Rate of Plants by escalating 5% over the average ECR of plants during Apr'25 to Sept'25.
- 62) Further, APDCL has projected Transmission Charges as approved by the Hon'ble Commission in MYT Order dated 25/03/2025.
- 63) It is submitted that the Central Government, vide Ministry of Finance Notification No.9/2025-Central Tax (Rate) dated 17/09/2025, has increased the GST rate on coal from 5% to 18%; and vide Notification No. 2/2025-Compensation Cess (Rate) dated 17/09/2025, has abolished the Compensation Cess of Rs. 400/MT, with effect from

<sup>2</sup> <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2165754&reg=3&lang=2>

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**PFI Comments: APDCL True-up FY 2024-25 and ARR FY 2026-27**



- 22/09/2025. The abolition of the Compensation Cess and the increase in the GST rate on coal have impact on the cost of coal to be procured by the generating companies. Hon'ble CERC vide its suo-moto order dated 1/10/2025, has mentioned that changes due to GOI notifications dated 17/09/2025, squarely fall within the ambit of a "Change in Law" event and will be applicable to all PPAs having a composite scheme and covered under Section 63 of the Act, except in case of the generating companies having captive coal mines.
- 64) Further, as per PFI analysis, it is expected that rationalisation of GST rates on coal from 5% to 18% and removal of compensation cess of Rs. 400 per ton, will reduce the cost of generation for coal-based power generators. Further, Ministry of Coal estimated that impact of the new reform on coal pricing and the power sector is a substantial reduction in overall tax burden, with coal grades G6 to G17 seeing decreases in the range of Rs. 13.40 per tonne to Rs. 329.61 per tonne. Further, for the power sector, the average reduction is around Rs. 260 per tonne, translating into a cut of 17-18 paise per kWh in the cost of generation.
  - 65) In view of recent GOI notifications dated 17/09/2025 and expected reduction in coal price and subsequent Energy Charge rate of Thermal Plants, PFI requested to the Hon'ble Commission to consider FC & ECR for FY 2026-27 equal to FY 2025-26 without any escalation.

- 75) PFI comments on ARR FY 2026-27 for [Uttar Haryana Bijli Vibhag Nigam Ltd.](#)

**I. Power Purchase Cost Projection**

60) Power Purchase Cost accounts for 70-80% of the ARR of any DISCOM and therefore DISCOM as well as the Commission focus on optimizing the same which resulted into introduction of Merit Order Despatch principle and Resource Adequacy planning. Further, the Indian Power Sector is very dynamic and changing frequently with increase in renewable energy share resulting crash of short-term prices at Power exchange during the solar hours, Green Energy Open Access, tremendous growth in Rooftop solar/PM-Surya Ghar, deployment of Energy storage, etc. have impacted the process of demand projection and accordingly the power procurement. This mandates DISCOMs to cover such factors while projecting the sales and corresponding power procurement while filing the Tariff Petitions after considering hourly or at least monthly energy balance and monthly power purchase quantum and cost, which has not been observed in the case of UHBVNL Tariff Petition, wherein it has been noticed that bigger State like Madhya Pradesh and Adhra Pradesh, the Tariff Petition include the projection of Power Purchase Quantum and Cost on monthly format basis and they also submit details related to MoD

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**PFI Comments: UHBVNL True-up FY 2024-25 and ARR FY 2026-27**

even in the projection part, the relevant pages from the Petitions are attached as **Appendix 1 & 2.**

61) Further, it is also observed that DISCOMs have completed the Power Purchase Cost section in 3-4 pages only without submitting the basic details like assumptions considered for projecting plant-wise quantum like Capacity, DISCOM share, PLF, Minimum Technical Limit, annual overhauling/maintenance schedule, past generation trend, CERC/Commission Order for projecting Fixed Charges, etc. like other DISCOMs submit with the Petitions.

62) Hence, **it is requested to the Hon'ble Commission to direct DISCOMs to resubmit such details to the Commission and the same may be approved after prudence check of the details submitted by the DISCOMs.**

76) PFI comments on ARR FY 2026-27 for MP-DISCOMs.

**PFI Comments: MP DISCOMs ARR FY 2026-27**



procured by generating companies. The Hon'ble CERC, vide its suo-motu order dated 01.10.2025, has clarified that the aforesaid notifications squarely fall within the ambit of a "Change in Law" event under Section 63 of the Act, except in case of generating companies having captive coal mines.

- 26) Further, as per PFI's analysis, the rationalisation of GST on coal from 5% to 18% coupled with removal of the compensation cess of Rs. 400 per tonne is expected to reduce the overall cost of generation for coal-based power plants.
- 27) The Ministry of Coal has estimated that coal grades G6 to G17 would witness a reduction in prices ranging from Rs. 13.40 per tonne to Rs. 329.61 per tonne. For the power sector, the average reduction is estimated at around Rs. 260 per tonne, translating into a reduction of about 17-18 paise per kWh in the cost of generation<sup>2</sup>.
- 28) PFI further submits that the Hon'ble Commission has already approved a monthly Fuel and Power Purchase Adjustment Surcharge (FPPAS) mechanism, which provides for automatic recovery of variations in power.
- 29) Since, DISCOMs have considered ECR as weighted average of ECR of last one year i.e., Oct'24 to Sept'25, the Order w.r.t. removal of coal cess and GST came in Sept'25 and the impact of the same will come into the Bills from Nov'25 and onward. In view of Government of India notifications dated 17.09.2025, and lack of information about actual ECR and Coal grade used in each Plant, **PFI has considered minimum reduction in Energy Charge Rate of 10 paise/kWh on all Thermal (Coal) Power Plants** and accordingly recomputed the Variable Charges for MP-DISCOMs as follows:

Particulars	Projected by MP-DISCOMs	Proposed by PFI
Fixed Charge (Rs. Cr.)	11,566	11,566
Energy Charge (Rs. Cr.)	27,499	26,834
<b>Total Power Purchase Cost (Rs. Cr.)</b>	<b>39,065</b>	<b>38,399</b>

77) However, PFI observed that DISCOM has computed an error while projecting ECR for the Bongaigaon Power Plant (only Coal based Power Plant) as Rs. 3.83/kWh instead of Rs. 3.56/kWh (Rs. 3.73 – Rs. 0.17). **Accordingly, PFI has computed the Power Purchase cost for Bongaigaon Power Plant as Rs. 330.70 Cr. against the claim of Rs. 345.03 Cr.**

78) Further, PFI in the above para has recomputed the sales for FY 2026-27 based on the past year trends, accordingly **PFI has recomputed the Energy balance for FY 2026-27** and computed the surplus power and corresponding revenue from sale of surplus power as follows:

Sr. No.	Particulars	Calculation	Projected by DISCOM	Proposed by PFI
1	Power purchased from the Eastern Region (ER)	A	0	
2	Inter-state transmission loss for ER	B	1.80%	1.80%
3	Net power purchased from the ER	$C=A*(1-B)$	1891.89	1891.89
4	Power purchased from the North - Eastern Region (NER)	D	0.00	0.00
5	Inter-state transmission loss for NER	E	3.00%	3.00%
6	Net power available at state bus from external sources on long term	$F=(C+D)*(1-E)$	1835.13	1835.13
7	Power purchased from generating stations within the state	G	1315.94	1315.94
8	Power purchased from other sources	H	0	0
9	Intra-State Transmission Losses		2.52%	2.52%
	<b>Total Availability at MePDCL Periphery</b>	<b><math>I=F+G+H</math></b>	<b>3,071.76</b>	<b>3,071.76</b>
9	Power to be sold to consumers within the state (including ASEB)	J	2195.79	1667.41
10	Transmission & Distribution Losses (%)	K	16.00%	16.00%
11	Net power requirement at state bus for sale of power within the state	$L=J/(1-K)$	2614.03	1985.02
<b>12</b>	<b>Surplus Power (for sale outside state)</b>	<b><math>M = I - L</math></b>	<b>457.72</b>	<b>1,086.74</b>
<b>13</b>	<b>Revenue from Sale of Surplus Power</b>		<b>343.29</b>	<b>815.05</b>
<b>14</b>	<b>Rate of IEX Sales in 2026-27</b>		<b>7.50</b>	<b>7.50</b>

79) At revised sales, DISCOM will have surplus power of 1087 MU and corresponding revenue from sale of surplus power will be Rs. 815 Cr.

80) Accordingly, **PFI has recomputed the Power Purchase Cost as Rs. 1249 Cr. instead of the claim of Rs. 1263 Cr.**

### P. Interest on Working Capital

81) DISCOM has claimed IoWC as Rs. 43.06 Cr.

82) PFI has observed that Hon'ble Commission has defined the process of computing the IoWC in Regulation 34.3 of the Meghalaya State Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2014, which is as follows:

### 34.3 Distribution Business

(i) The Distribution Licensee shall be allowed interest on the estimated level of working capital for the Distribution Business for the financial year, computed as follows:

- Operation and maintenance expenses for one month; plus
- Maintenance spares at one (1) per cent of the historical cost escalated at 6% from the date of commercial operation; plus
- Receivables equivalent to two (2) months of the expected revenue from charges for use of Distribution at the prevailing tariffs; minus

Interest shall be allowed at a rate equal to the State Bank Advance Rate (SBAR) as on 1<sup>st</sup> April of the financial year in which the Petition is filed.

83) PFI has observed that DISCOM has not computed the IoWC in line with the Regulation and considered Receivables as ARR instead of Revenue from Sale of Power. Accordingly, PFI has recomputed the IoWC in line with the Regulation, which is as follows:

Particular	Claimed by DISCOM	Proposed by PFI
O&M Expenses (1 Month)	22.70	22.70
Maintenance Spares	37.73	37.73
Receivables (2 months)	223.76	220.813
<b>Total</b>	<b>284.20</b>	<b>281.24</b>
<b>Rate of Interest</b>	<b>15.15%</b>	<b>15.15%</b>
<b>IOWC</b>	<b>43.06</b>	<b>42.61</b>

84) Accordingly, **PFI requests the Hon'ble Commission to consider IoWC as Rs. 42.61 Cr.** instead of claim of Rs. 43.06 Cr. The balance may be borne by Govt. of Meghalaya in the form of subsidy.

### Q. Return on Equity

85) PFI in the True-up section has recomputed the RoE after considering the Equity portion as per submission of DISCOM. Accordingly, PFI has recomputed the RoE as Rs. 28.51 Cr. instead of claim of Rs. 39 Cr. The working is as follows:

(Rs. Cr.)

Particular	FY 2024-25	FY 2025-26	FY 2026-27
Opening GFA	1495.81	2319.29	3559.70
Addition	824.30	1240.41	370.41
Retirement	0.83	0.00	0.00
<b>Closing GFA</b>	<b>2319.29</b>	<b>3559.70</b>	<b>3930.11</b>
<b>Average GFA</b>	<b>1907.55</b>	<b>2939.49</b>	<b>3744.90</b>
Average Grants	1653.99	2421.78	3066.11
Average Assets Not Funded Through Grants	253.56	517.71	678.80
Normative Loan (70%)	177.49	362.40	475.16
Normative Equity (30%)	76.07	155.31	203.64
<b>Rate of Return on Equity</b>	<b>14%</b>	<b>14%</b>	<b>14%</b>
<b>Return on Equity</b>	<b>10.65</b>	<b>21.74</b>	<b>28.51</b>

### R. Interest on Loan

86) PFI in the above True-up section has recomputed the IoL after considering the Loan portion as per submission of DISCOM. Accordingly, PFI has recomputed the IoL as Rs. 15.35 Cr. instead of claim of Rs. 24 Cr. The working is as follows:

(Rs. Cr.)

Particular	FY 2024-25	FY 2025-26	FY 2026-27
Opening Normative Loan	180.57	279.34	427.01
Addition	111.30	173.66	51.86
Repayment	12.53	25.99	33.69
<b>Closing Loan</b>	<b>279.34</b>	<b>427.01</b>	<b>445.18</b>
<b>Average Loan</b>	<b>229.96</b>	<b>353.18</b>	<b>436.10</b>
<b>Rate of Interest on Loan</b>	<b>3.52%</b>	<b>3.52%</b>	<b>3.52%</b>
<b>Interest on Loan</b>	<b>8.09</b>	<b>12.43</b>	<b>15.35</b>

### S. Depreciation

87) PFI in the above True-up section has recomputed the Depreciation after considering the Grant portion as per submission of DISCOM. Accordingly, PFI has recomputed the Depreciation as Rs. 33.69 Cr. instead of claim of Rs. 30 Cr. The working is as follows:

(Rs. Cr.)

Particulars	FY 2024-25	FY 2025-26	FY 2026-27
Depreciation during the year	93.97	147.20	185.48
WAROD	5.47%	5.56%	5.50%

Particulars	FY 2024-25	FY 2025-26	FY 2026-27
90% of Average Grants	1488.59	2179.60	2759.49
Depreciation on Grants	81.44	121.21	151.79
<b>Net Depreciation</b>	<b>12.53</b>	<b>25.99</b>	<b>33.69</b>

### T. Other Income

- 88) DISCOM has considered other Income of Rs. 195 Cr. for FY 2026-27 after considering escalation of 10% on actual other income of FY 2024-25.
- 89) PFI has observed that DISCOM has considered escalation of 10% on DPC collected from consumers.
- 90) PFI has recomputed the Other Income inline with the proposed methodology as mentioned in True-up Section as Rs. 164 Cr., as follows:

(Rs. Cr.)

Particular	Projected by DISCOM	Proposed by PFI
Revenue from Wheeling CSS	47	47
Meter Rent	1	1
Reconnection Fees	0	0
DPC Collected from Consumers	36	6
Rebate on Power Purchase	27	27
Other Charges from Consumers	19	19
Interest Income From Banks	11	11
Interest Income from Others	0	0
Rental and Hiring Income	0	0
Sale of Scrap	0	0
Misc. Income	14	14
Revenue Grants for Other Expenditure	39	39
<b>Total</b>	<b>195</b>	<b>164</b>

## U. Summary

91) As stipulated in above Sections, summary of ARR for FY 2026-27 of MePDCL is as follows. Hon'ble Commission is requested to kindly consider the same.

Sr. No.	Particulars	Projected by DISCOM	Proposed by PFI	Difference
1	Sales	2196	1667	(528)
2	Distribution Loss	16%	16%	
3	Power Purchase Cost	1263	1249	(14)
3a	<b>Less: Computation Error</b>		14	
4	Inter-State Transmission Charges	120	120	0
5	Intra-State Transmission Charges	127	127	0
6	Operation & Maintenance (O&M) Expenses (6a+6b+6c)	235	235	0
7	Return on Equity (RoE)	39	29	(10)
8	Interest on Finance Charges	24	15	(8)
9	Interest on Working Capital	43	43	0
10	Depreciation	30	34	3
<b>11</b>	<b>Aggregate Revenue Requirement (ARR)</b>	<b>1881</b>	<b>1850</b>	<b>(30)</b>
12	Non-tariff Income			
13	Less: Other Income	195	164	(31)
14	Less: Revenue from Sale of Surplus Power	343	815	472
<b>15</b>	<b>Net ARR</b>	<b>1343</b>	<b>871</b>	<b>(471)</b>
16	Add: Revenue Gap for FY 2024-25	430	326	(104)
17	Add: Pension Fund (Installment 4)	113	113	0
18	Add: Pension Fund (MeECL Instalment 4)	1	1	0
19	Grand Total	1886	1311	(576)
20	Revenue from Sale of Power	1779	1325	(454)
<b>21</b>	<b>Revenue (Gap)/Surplus</b>	<b>(107)</b>	<b>14</b>	<b>121</b>

92) In view of the above, **it is observed that MePDCL is Revenue Surplus of Rs. 14 Cr. instead of projected Revenue Gap of Rs. 107 Cr. PFI requests the Hon'ble Commission to kindly consider the same.** Further, the Govt. of Meghalaya should provide additional subsidy of Rs. 121 Cr., on account of higher claims of DISCOM as tabulated above, over and above the subsidy decided by Govt. of Meghalaya for FY 2026-27.

#### **V. Bifurcation of DISCOM ARR into Wheeling & Retail Business**

- 93) In order to implement the provisions of Electricity Act, 2003 related to competition and Open Access as per Section 42 and the provisions of the proposed Electricity (Amendment) Bill, 2025 mandating de-regulation of the consumers above 1 MW and parallel licensing within same area through shared network, there is a urgent need of filling separate Petition for Wheeling and Retail by DISCOMs which is being already followed by DISCOMs of Andhra Pradesh & Telangana (Appendix- 3 & 4). Such filling of Petition should be transparently and accurately linked to the Audited Accounts.
- 94) In view of above, PFI requests the Hon'ble Commission to direct DISCOM to submit separate Petition for Wheeling and Retail Business along with break-up of business-wise expenses and income in Audited Accounts.

#### **W. Demand Side Management (DSM) Fund**

- 95) PFI observed that MePDCL has also not submitted any proposal related to **DSM initiatives**. DSM is a strategic approach to energy conservation that seeks to manage consumer demand for energy rather than simply supply it. It is a coordinated set of activities and programs undertaken by electric utilities, developers, government agencies, and end-use customers to ensure that electric power service can be delivered to consumers at the lowest cost consistent with reliable supply. DSM also seeks to promote energy conservation and peak load reduction through voluntary or mandatory actions taken by the above-mentioned participants.
- 96) In view of above, PFI requests the Hon'ble Commission to direct MePDCL to focus on the DSM activities and submit detailed proposal w.r.t. activities proposed under DSM.

#### **X. PM SURYA GHAR – MUFT BIJLI YOJNA**

- 97) PM Surya Ghar: Muft Bijli Yojana, the world's largest domestic rooftop solar initiative, is transforming India's energy landscape with a bold vision to supply solar power to one crore households by March 2027. By March 2025, installations under the scheme are expected to exceed 10 lakhs, with the numbers doubling to 20 lakh by October

2025, reaching 40 lakhs by March 2026, and ultimately achieving the target of one crore by March 2027<sup>2</sup>. The scheme is projected to add 30 GW of solar capacity through rooftop installations in the residential sector, significantly contributing to India's renewable energy goals.

- 98) Through this rooftop solar scheme many domestic consumers will have Net metering connections which will have a sizeable impact on the domestic category sales. However, in the Tariff Petition for ARR of FY 2026-27, it is noted that MePDCL have submitted any proposal related to PM Surya Ghar – Muft Bijli Yojna.
- 99) In view of above, PFI submits that Sales forecast for MePDCL in ARR of FY 2026-27 may be done considering the impact of PM Surya Ghar – Muft Bijli Yojna.

## **Y. ENERGY STORAGE**

- 100) India's evolving energy storage policy framework underscores its commitment to enhancing grid flexibility and supporting renewable energy integration. Since 2019, a robust regulatory ecosystem has been crafted to support energy storage deployment through national initiatives around technical standards, legal frameworks, transmission charges, Resource Adequacy (RA) planning, market mechanisms, and financial incentives, as well as state-level initiatives.
- 101) In a significant regulatory development, the MoP clarified Legal Status to ESS on January 29, 2022. The order identifies Energy Storage Systems (ESS) as an essential component of the power system under the Electricity Act of 2003, permitting ESS to function as a standalone or integrated element within generation, transmission, or distribution networks. The ESS can be operated by various entities, and standalone ESS projects can be licensed independently and granted connectivity under specific rules, encouraging broader ESS applications and ownership models.
- 102) The Waiver of Inter-State Transmission System (ISTS) Charges for solar, wind (onshore and offshore), and green hydrogen projects was mandated by the Ministry of Power (MoP) on November 23, 2021, with subsequent amendments in November

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<sup>2</sup> <https://pib.gov.in/PressReleasePage.aspx?PRID=2081250>

2021, December 2022, May 2023, June 2023 & June 2025. The relevant extract is as follows:

*“a) ISTS charges waiver for Hydro PSP Projects for which the construction work has been awarded on or before 30th June 2028 shall be 100%.*

*b) ISTS charges waiver for co-located Battery Energy Storage System (BESS) Projects commissioned on or before 30th June, 2028 shall be 100%, if the power from such BESS projects is consumed outside of the state, where such BESS project is commissioned.*

*Provided that a BESS project shall be considered as co-located, if the BESS and RE projects are connected at the same ISTS sub-station.*

*c) There will not be any ISTS charges waiver for Hydro PSP Projects, for which the construction work awarded after 30th June, 2028 and for co-located BESSs commissioned after 30th June, 2028.*

*d) For BESS projects which are not co-located, the ISTS charges waiver shall be as per the extant orders issued by the Ministry of Power and CERC Regulations.”*

103) The Central Electricity Authority (CEA) on 28/06/2023, has established RA planning guidelines at both national and state levels, an important step forward, and has recently come up with state-wise RA reports with up to 5-year or 10-year RA projections. The CEA Resource Adequacy guidelines also outline a framework for incorporating ESS in RA planning.

104) Recent national and state government policies have begun to lay a foundation that will support ESS deployment and its integration into RA planning and procurement, electricity markets, and system operations.

105) The CEA in its Report for Resource Adequacy Plan<sup>3</sup> for the State of Meghalaya for the period from FY 2025-26 to FY 2035-36 has identified that:

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<sup>3</sup> [https://cea.nic.in/wp-content/uploads/resource\\_adequacy\\_st/2025/08/Report\\_on\\_Resource\\_Adequacy\\_Plan\\_for\\_Meghalaya\\_Up\\_to\\_2035\\_36.pdf](https://cea.nic.in/wp-content/uploads/resource_adequacy_st/2025/08/Report_on_Resource_Adequacy_Plan_for_Meghalaya_Up_to_2035_36.pdf)

- Meghalaya is likely to witness an energy deficit ranging from 2.19 to 2.83 BU in different years from 2025-26 to 2035-36 with the existing and planned capacity addition only.

106) Although CEA has not projected any Energy Storage requirement for MePDCL. PFI submits that Energy Storage is an effective tool for Energy arbitrage for DISCOMs in optimization of their Power Purchase Cost. For instance, in BESS, Batteries can be charged in the off-peak hours and can be discharged in Peak hours, thus, avoiding reliance of DISCOMs on high-cost short term Power from markets or not scheduling the high-cost Power Plants. With steep reduction in Battery prices and active participation by various companies, MePDCL necessitates to also consider Energy Storage as part of their Power Procurement Planning in line with Resource Adequacy Planning formulated by CEA for Meghalaya.

#### **Z. NFA approach for Return on Equity**

107) Under Section 181 of the Electricity Act, 2003, SERC has been defined specific functions to frame Regulations. Sub-Section (1) of Section 181 stipulates that “The State Commission may, by notification make regulations consistent with this Act and the rules generally to carry out the provisions of this Act.”

108) Section 61 of the Electricity Act, 2003, pertains specifically to framework of Tariff Regulations by appropriate Commission. Sub-Section (d) of Section 61 stipulates that while framing Tariff Regulations, appropriate Commission may be guided by various factors including “safeguarding of consumers' interest and at the same time, recovery of the cost of electricity in a reasonable manner;”

109) Taking an ideal case of Transformer, whose useful life is 25 years. Based on such useful life, Depreciation is first calculated for 12 years which is linked to 70% of loan repayment. Balance Depreciation till 90% is segregated over balance useful life of 25 years.

110) As mandated u/s 61 (d), stipulated above, there has to be recovery of cost of Electricity in a reasonable manner. Beneficiaries pay for the cost of electricity for 25

years. Initially, Capital Cost is split into 70:30::Debt:Equity which is being currently dealt as follows :

- **For 1<sup>st</sup> 12 years:** (ref: Regulation 32 of MSERC (Multi Year Tariff) Regulations, 2014)
  - Loan Repayment equivalent to 70% of Capital Cost, is being linked to Depreciation and its Interest portion is allowed as separate line item in Fixed Cost.
  - Return on Equity is allowed yearly on 30% of Capital Cost without depreciating the equity base since, depreciation is being linked to Debt component.
- **Balance Useful Life of 13 years**
  - Loan has been fully repaid whose principal payment was linked to Depreciation i.e., asset has now been 70% Depreciated.
  - Depreciation is still allowed as an expense in Fixed Cost till 25 years but Equity Base is not reduced.
  - Till 100% Loan repayment, which translates to recovery of 70% of Capital Cost, Depreciation used to reduce the Loan Base by linking with loan repayment but once loan is fully repaid Depreciation is still allowed as an expense in Annual Fixed Charges and RoE is allowed on total Equity Base which is same as that on Year 1.

111) **So, a utility, after 12 years (when loan has been fully repaid) receives Depreciation in ARR and also RoE on full Equity Base. Rather, after 12 years, RoE should be allowed on Net Fixed Asset basis and Equity Base should be reduced by Depreciation since Depreciation is allowed as an expense even after 12 years recovered from consumers.**

**Other SERCs where NFA approach is adopted**

112) Andra Pradesh Electricity Regulatory Commission, Delhi Electricity Regulatory Commission.

**CERC Order dtd. 13/08/2021 – NFA Approach for Emission Control System**

113) Hon'ble CERC in its Order dtd. 13/08/2021 related to determination of Compensation on account of installation of Emission Control System has considered NFA approach as follows:

*“36. We have considered all the suggestions and comments of the stakeholders. **However, the Commission notes that the approach of net fixed assets and cost of employed suggested in the draft Suo-Motu order satisfies the principle of economic restitution.** The Commission is aware of the concerns and financial position of the generating companies. However, compensation for change in law cannot be a mechanism to improve their financial position. Accordingly, the proposed approach of servicing investment through cost of capital employed is appropriate, being consistent with the principle of economic restitution.”*

**CERC Order dtd. 30/07/2016 – NFA Approach for BTPS**

114) Hon'ble CERC in its Order dtd. 30/07/2016 related to Truing up of Fixed Cost of 705 MW of BTPS (3 x 95 + 2 x 210) for the period from 1/4/2009 to 31/03/2014, had decided NFA approach post repayment of loan, tabulated as follows:

*“63. The respondent, BRPL has requested the Commission to direct the petitioner to furnish the actual Corporate tax paid against the BTPS duly audited and certified by the Auditors. In response the petitioner has submitted that the Commission has already upheld the contention of the Petitioner, and therefore, this is a settled matter. **As per methodology under NFA approach, return would be provided on constant equity component till the loans are fully paid and once the loans are fully repaid subsequent depreciation recovery would be utilized towards notional reduction in equity.** In other words, return on equity would be calculated on reducing equity base once the loan is fully repaid notionally. The net equity worked out on cash basis as on 1.4.2009 is ₹17946.58 lakh whereas ₹17848.20 lakh has been considered by the petitioner for purpose of tariff. The grossing up of the base rate has been done with respect to the actual tax rate applicable to the petitioner for the years 2009-10, 2010-11, 2011-12, 2012-13 and 2013-14. Accordingly, return on equity has been worked out on the normative net equity as on 1.4.2009 after*

accounting for the admitted actual additional capital expenditure for the period 2009-14 as above. Return on Equity has been computed as under:-

	(₹ in lakh)				
	2009-10	2010-11	2011-12	2012-13	2013-14
Opening notional equity	17923.71	15699.11	13873.71	14063.84	12366.63
Addition due to Additional Capitalisation	14.65	174.78	781.73	279.06	25.00
Repayment of Equity (balance of depreciation after repayment of loan)	2239.25	2000.18	591.60	1976.27	2448.21
Closing Equity	15699.11	13873.71	14063.84	12366.63	9943.42
Average Equity	16811.41	14786.41	13968.77	13215.23	11155.02
Return on Equity (Base Rate ) (%)	15.50	15.50	15.50	15.50	15.50
Tax rate (%)	33.990	33.218	32.445	32.445	33.990
Rate of Return on Equity (Pre Tax) (%)	23.481	23.210	22.944	22.944	23.481
<b>Return on Equity (Pre Tax)</b>	<b>3947.49</b>	<b>3431.93</b>	<b>3204.99</b>	<b>3032.10</b>	<b>2619.31</b>

115) In view of above, it is noted that since beneficiaries are required to pay for the useful value of the assets in operation, therefore NFA approach would be in tandem with Section 61 (d) of the Act.

116) GFA approach leads DISCOMs to earn return on depreciated assets. Therefore, the capital cost may be divided in the ratio of loans and equity and the loan amount may be reduced to the extent of depreciation accrued. Once the loan is fully repaid, further depreciation must reduce the Equity component as still depreciation is allowed to be recovered in Fixed Cost even after full repayment of loan.

117) Working Methodology of GFA and proposed NFA Approach is Annexed herewith as Appendix-5 (only RoE, IoL and Depreciation), wherein it may be noted that from 20th Year onwards Equity Base is reduced, after repayment of Loan, through Depreciation. Cumulative RoE till 25 years is Rs. 105.60 Cr. whereas under NFA approach is Rs. 95.71 Cr.

118) However, the DISCOMs have not submitted the details in line with the Hon'ble Commission Regulation.

50) In view of above, PFI requests the Hon'ble Commission to direct DISCOMs to submit the details in line of Regulation.

**PRAYERS BEFORE HON'BLE MSERC:-**

- 1) To consider the comments / suggestions of Power Foundation of India (PFI) on ARR & Tariff Petition of MePDCL.**
- 2) The inefficiencies of MePDCL should not be allowed to socialize to consumers at large rather it should be borne by Government of Meghalaya through additional Subsidy of Rs. 104 Cr. for FY 2024-25. Further, Govt. of Meghalaya should provide additional subsidy of Rs. 121 Cr. on account of higher claims of MePDCL, over and above the subsidy to be decided by Govt. of Meghalaya for FY 2026-27.**
- 3) To direct DISCOM to submit details of RPO compliance in line with MoP Trajectory for FY 2024-25 & FY 2026-27.**
- 4) To direct DISCOM to submit detailed report on variation in Projected sales and actual sales and use scientific method to forecast sales projection.**
- 5) To direct DISCOM to submit the details of Prior period capitalization along with reason of delay in capitalization.**
- 6) To direct MePDCL to submit the projection for Energy Balance, Power Purchase Quantum & Cost on monthly basis.**
- 7) To direct DISCOM to consider Energy Storage as part of their Power Procurement Planning in line with Resource Adequacy Planning.**
- 8) To direct MePDCL to submit separate Petition for Wheeling and Retail Business along with break-up of business-wise expenses and income in Audited Accounts.**
- 9) To consider the additional submissions, if any, made by PFI for MePDCL Tariff Petition for True-up & ARR Petition.**

**Revised**  
**Aggregate Revenue Requirement**  
**&**  
**Tariff Proposal**  
**for**  
**FY 2026-27**

**Submitted by: -**

**Madhya Pradesh Power Management Company Limited**  
**Shakti Bhawan, Vidyut Nagar, Jabalpur**



**Madhya Pradesh Poorv Kshetra Vidyut Vitaran Company Limited**  
**Block No. 7, Shakti Bhawan, Vidyut Nagar, Jabalpur**



**Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company Limited**  
**Bijlee Nagar Colony, Nishtha Parisar, Govindpura, Bhopal**



**Madhya Pradesh Pashchim Kshetra Vidyut Vitaran Company Limited GPH**  
**Compound, Polo Ground, Indore**



## **A5: APPROACH FOR ENERGY FORECAST AND POWER PURCHASE COST ESTIMATIONS**

### **5.1 Introduction**

- 5.1.1 Power Purchase Costs constitute the predominant component of the Aggregate Revenue Requirement (ARR) of Distribution licensees and, accordingly, the accurate determination and projection of power purchase costs remain imperative to ensure reasonable recovery of expenses under the purview of Section 61 of the Electricity Act, 2003. The Petitioners humbly submit that the currently prevalent methodology employed for the assessment of Power Purchase cost operates on a consolidated monthly basis framework, whereby the total energy Availability and consumer Demand of the Distribution licensee are aggregated across the calendar month. Subsequently, power procurement Scheduling and corresponding cost computations are undertaken on the basis of this aggregated data without capturing the impact of hour-wise generation and demand profile.
- 5.1.2 This consolidated approach inherently treats Energy Availability and Demand on equal footing, thereby neglecting the fundamentally time-coupled nature of Supply and Demand. It is respectfully submitted that renewable energy sources, particularly Solar Power, are predominantly available during daylight hours and must consequently be scheduled to meet demand or energy requirements specific to those periods. However, the prevailing methodology for assessing power purchase costs fails to account for these hourly generation profiles. This oversight leads to substantial discrepancies in the scheduling of contracted generating stations and sources, resulting in significant deviations in the determination of accurate, cost-reflective power purchase costs during the Aggregate Revenue Requirement (ARR) and tariff formulation processes.
- 5.1.3 Furthermore, from a technical viewpoint the existing methodology also does not capture the impact of Technical Minimum scheduling while determining the energy requirement for the Distribution licensee. Instead, the existing methodology totally based on the Merit Order Despatch (MOD) Principle wherein the total availability from generating stations is schedule in order of increasing Variable Charges till the required normative Demand is met. This tantamount that those stations falling below the last despatched stations in the MoD rank, i.e., the Stations above which the normative energy requirement (and surplus sale if any) is fulfilled, shall remain under backdown or RSD throughout the months/year. However, in actual scenario it is not possible even when the actual loss of the Licensee remains within the normative range. It is submitted that the MPPMCL/Discoms are required to first ensure Technical Minimum Scheduling for State Gencos, Central Generating Stations and for IPPs as well in line with Detailed Operating Procedure (DOP) issued by the appropriate Regulatory Commissions. The MoD principle is applied after honouring the Technical Minimum Scheduling of the generating stations.
- 5.1.4 **It is submitted that the above-mentioned demerit of existing methodology generally leads to substantial disparities in the estimated versus actual Power Purchase Cost, as observed during truing-up proceedings of ARR from previous years**

- 5.1.5 The Petitioners wish to highlight that the Hon'ble Commission has issued the "Madhya Pradesh Electricity Regulatory Commission (Framework for Resource Adequacy) Regulations, 2024" to enable the implementation of the RA (Resource Adequacy) Framework in the State.
- 5.1.6 The MPERC RA Regulations, 2024 outline the development and preparation of an RA Plan for the Long-term Distribution Resource Adequacy Plan (LT-DRAP) for up to 10 years, Medium-term Distribution Resource Adequacy Plan (MT-DRAP) for up to 5 years and Short-Term Resource Adequacy Plan (ST-DRAP) for up to one year by Distribution Licensee. The Regulations explicitly prescribe the assessment of both demand forecast and energy availability on an hourly basis rather than merely energy projections on consolidated basis.
- 5.1.7 Taking cognizance of the various relevant provisions as specified under the MPERC RA Regulations, 2024, the Petitioners for the first time have attempted to determine the power purchase cost on hourly basis in this Petition. The hourly assessment of power purchase cost is also important particularly in light of Agriculture load shift, adoption of other policies measures such as Green Energy Open Access, PM-Surya Ghar/Rooftop PV, Demand side and energy efficiency/energy conservation measures etc.
- 5.1.8 However, it is pertinent to elucidate that as per Regulation 6.15, the Resource Adequacy Plan's energy forecast embodies a realistic loss trajectory. Conversely, for ARR projection purposes, the Regulations mandated to consider a normative loss trajectory, as approved by the Hon'ble Commission for the concerned year. It is submitted that **this divergence in loss trajectory assumptions between the Resource Adequacy planning process and ARR estimation inevitably yields variations in energy forecasts as determined in the Resource Adequacy Plan and those presented herein** for the purpose of estimation of normative power purchase cost for the relevant year.
- 5.1.9 In view of the foregoing, the Petitioners respectfully submit that there is no merit in continuation of existing consolidated Power Purchase Cost estimation methodology. Adoption of time-segmented, preferably hourly basis assessment that accurately maps renewable generation to corresponding demand periods is imperative to ensure true Power Purchase Cost, improve tariff reflectivity, uphold the principles of cost causation, and ensure compliance with the statutory objectives prescribed under the relevant Regulations/Code (including Resource Adequacy Regulation) and DOP issued by the appropriate Commission towards Technical Minimum Scheduling
- 5.1.10 **The Petitioners therefore request the Hon'ble Commission to recognize the merits of the hourly Power Purchase Cost assessment methodology as elaborated herein, and to accord due consideration to its incorporation in the power purchase estimation and ARR& tariff determination frameworks going forward.**
- 5.1.11 The detailed methodology adopted by the Petitioners in hourly demand projections, hourly availability projections and hourly power purchase cost estimation is summarized in the

paras below:

**5.2 Assessment of Hourly Demand Projections:**

- 5.2.1 For the purpose of projecting the hourly demand for the financial year 2026-27, the Petitioners have commenced with a base analysis of the most recent actual hourly demand data, specifically for the financial year 2024-25. To ensure data accuracy and reliability, the Petitioners have utilized the Block-wise Deviation Report encompassing actual demand data for all three State Distribution Companies. This report, issued by the Madhya Pradesh State Load Despatch Centre (MP SLDC), covers the complete period from 1<sup>st</sup> April 2024 to 31<sup>st</sup> March 2025. The report contains granular scheduled energy drawal data expressed in kilowatt-hours (kWh) for each of the 96 (fifteen-minute time) blocks corresponding to every day of the FY 2024-25.
- 5.2.2 The Petitioners meticulously extracted the actual scheduled drawal figures at 15-minute intervals (i.e., quarter-hourly blocks) for each day throughout FY 2024-25, aggregating the data across all three Discoms to represent the consolidated State demand. To translate this 15-minute block data into hourly demand values, the Petitioners computed the sum of the scheduled energy (in kWh) of four consecutive 15-minute blocks for each hour of the day. This aggregation yields the total energy demand within each one-hour interval for every day. Consequently, the Petitioners derived the hourly demand profile at the State level on a day-by-day basis for the entire financial year 2024-25.
- 5.2.3 Subsequently, to establish representative hourly demand profiles for each month, the Petitioners further aggregated these hourly demand values by summing the demand corresponding to the same hour across all days of the respective month. The resulting sum was then considered to represent the hourly demand for that particular hour of the month.
- 5.2.4 Accordingly, hour wise monthly demand is calculated for 24 hours for each month of FY 2024-25 as shown in the Table below:

**Table 74: Actual hourly Demand Profile of FY 2024-25 (MUs)**

Hourly Actual Schedule (MUs)													
Existing ToD	Dates /Hours	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
Off Peak Night	00-01	319.12	370.17	323.09	301.58	276.60	278.24	296.10	318.30	308.72	306.15	334.60	350.26
	01-02	314.54	363.81	316.38	297.73	272.86	274.78	291.35	305.82	297.01	299.54	327.05	340.39
	02-03	305.89	355.33	310.27	293.43	268.68	270.67	285.73	301.06	289.05	293.75	321.53	329.13
	03-04	302.46	349.99	305.38	290.89	266.46	269.21	285.11	305.96	294.34	297.67	325.56	330.51
	04-05	299.37	345.53	301.66	289.39	266.04	268.86	286.23	309.11	299.01	297.44	324.15	335.11
Morning Peak	05-06	303.38	349.56	307.42	298.11	275.06	277.71	297.96	318.95	315.75	307.71	326.86	344.24
	06-07	324.84	358.90	317.16	319.27	300.95	303.36	330.58	371.21	379.75	364.02	371.20	388.18
	07-08	333.90	357.02	313.75	322.47	310.66	315.59	349.18	420.70	456.49	444.65	423.94	415.12
Off Peak/ Solar Hours	08-09	326.96	347.04	302.55	315.46	307.38	309.79	344.97	440.63	490.07	479.70	445.56	414.97
	09-10	322.32	344.23	297.85	307.62	298.56	298.78	336.47	449.90	505.96	498.36	457.59	408.76
	10-11	318.94	348.88	299.42	298.48	288.47	288.93	327.64	446.40	501.36	506.58	466.46	396.04
	11-12	320.08	363.17	309.79	295.13	282.08	284.48	324.77	436.71	486.53	498.96	459.19	373.59
	12-13	318.17	369.32	316.60	290.20	273.58	276.50	316.43	427.19	473.96	484.81	445.18	350.70

Hourly Actual Schedule (MUs)													
Existing ToD	Dates /Hours	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
	13-14	318.87	373.87	321.01	287.50	269.18	275.58	316.55	430.03	473.36	482.05	443.12	341.69
	14-15	322.60	377.77	323.88	289.54	269.09	275.69	319.16	425.94	463.53	471.73	435.34	336.18
	15-16	325.45	379.30	321.06	291.21	270.14	274.77	318.94	424.80	463.94	468.99	437.62	342.90
	16-17	315.65	359.74	306.94	288.69	269.43	272.47	315.19	417.47	459.79	459.80	424.28	345.74
Evening Peak	17-18	299.93	330.62	289.66	290.36	275.03	277.63	321.75	404.81	447.86	443.16	403.85	347.93
	18-19	298.78	322.36	286.70	296.03	287.85	296.60	340.07	377.15	414.66	418.02	379.79	349.36
	19-20	317.29	347.49	307.73	311.47	304.35	305.65	329.69	343.63	380.72	388.96	361.33	359.22
	20-21	305.74	345.11	312.19	306.31	290.15	286.67	302.35	300.69	331.27	346.69	321.01	329.88
	21-22	302.44	345.04	310.56	299.55	281.43	278.91	292.78	286.58	300.53	314.69	302.95	317.02
Off Peak Night	22-23	320.91	367.04	321.30	305.17	282.66	281.46	298.03	313.72	313.28	321.78	331.56	346.65
	23-24	326.60	374.62	324.29	306.20	280.62	280.82	298.67	323.16	314.20	317.38	340.61	355.06

5.2.5 The Petitioners in the earlier section of this Petition have calculated the normative energy requirement for each month of FY 2026-27 on consolidated basis based on the Loss Trajectory approved by the Hon'ble Commission.

5.2.6 The monthly normative energy requirement thus determined is then disaggregated on an hourly basis by proportionately distributing it according to the actual Hourly Demand pattern observed in FY 2024-25. Using this approach, the hourly demand projections for FY 2026-27 have been developed, as shown in the Table below:

**Table 75: Hourly Demand Projections of FY 2026-27 (MUs)**

Hourly Actual Schedule (MUs)													
Existing ToD	Dates /Hours	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
Off Peak Night	00-01	332.38	358.05	330.21	308.22	298.17	297.52	321.74	341.77	320.74	324.44	338.75	345.25
	01-02	327.60	351.90	323.35	304.28	294.14	293.82	316.57	328.37	308.57	317.43	331.11	335.52
	02-03	318.59	343.70	317.11	299.89	289.63	289.42	310.47	323.25	300.31	311.30	325.51	324.42
	03-04	315.02	338.54	312.11	297.29	287.24	287.86	309.80	328.52	305.80	315.45	329.60	325.78
	04-05	311.80	334.22	308.31	295.77	286.79	287.49	311.01	331.89	310.66	315.21	328.17	330.31
	05-06	315.97	338.12	314.20	304.67	296.51	296.94	323.76	342.47	328.04	326.09	330.91	339.32
Morning Peak	06-07	338.33	347.15	324.15	326.30	324.41	324.38	359.20	398.58	394.54	385.77	375.80	382.63
	07-08	347.76	345.34	320.67	329.57	334.88	337.45	379.41	451.72	474.26	471.21	429.19	409.18
	08-09	340.53	335.68	309.22	322.41	331.35	331.25	374.84	473.11	509.15	508.35	451.09	409.03
Off Peak/ Solar Hours	09-10	335.71	332.96	304.41	314.39	321.85	319.48	365.61	483.07	525.66	528.13	463.26	402.91
	10-11	332.18	337.46	306.02	305.05	310.97	308.94	356.00	479.30	520.88	536.84	472.24	390.37
	11-12	333.37	351.28	316.62	301.63	304.07	304.19	352.89	468.91	505.47	528.76	464.89	368.24
	12-13	331.38	357.23	323.58	296.59	294.91	295.66	343.82	458.68	492.41	513.77	450.69	345.68
	13-14	332.11	361.64	328.09	293.83	290.17	294.67	343.96	461.73	491.79	510.84	448.61	336.80
	14-15	335.99	365.40	331.02	295.92	290.07	294.79	346.79	457.34	481.58	499.90	440.74	331.37
	15-16	338.97	366.88	328.13	297.63	291.21	293.80	346.55	456.12	482.01	497.00	443.05	337.99
	16-17	328.75	347.97	313.71	295.04	290.44	291.34	342.48	448.25	477.70	487.26	429.54	340.79
Evening Peak	17-18	312.38	319.80	296.05	296.75	296.48	296.86	349.61	434.65	465.29	469.62	408.85	342.95
	18-19	311.19	311.81	293.02	302.55	310.30	317.15	369.51	404.95	430.80	442.98	384.50	344.36
	19-20	330.46	336.11	314.51	318.33	328.08	326.82	358.24	368.96	395.54	412.19	365.81	354.08
	20-21	318.43	333.82	319.07	313.05	312.77	306.53	328.53	322.86	344.17	367.40	324.99	325.16
	21-22	314.99	333.75	317.40	306.15	303.38	298.24	318.13	307.71	312.23	333.49	306.71	312.48
Off Peak Night	22-23	334.24	355.03	328.38	311.89	304.70	300.96	323.84	336.85	325.47	341.00	335.67	341.69
	23-24	340.16	362.36	331.44	312.94	302.51	300.28	324.53	346.98	326.44	336.34	344.84	349.98

**5.3 Assessment of Hourly Availability Projections**

- 5.3.1 Following a similar methodology as employed for hourly demand estimation, the Petitioners undertook the process of estimating the hourly availability of each contracted generating source by first collecting actual declared availability data at 15-minute intervals (block-wise) for each generating station for every day in FY 2023-24 and FY 2024-25. This detailed data was furnished by the Madhya Pradesh State Load Despatch Centre (MP SLDC) and the State Planning Cell (MP SPC). Thereafter, the average of declared availability of four consecutive 15-minute blocks was calculated to derive the average hourly availability for each hour of the day. This hourly availability calculation was performed for every day throughout FY 2023-24 and FY 2024-25.
- 5.3.2 To derive representative hourly availability profiles for each month, the Petitioners further averaged the hourly availability values corresponding to the same hour across all days within a given month. This resulted in an hourly availability figure considered representative of that hour for the month. Hour-wise monthly availability was thus computed for all 24 hours of each month of FY 2023-24 and FY 2024-25.
- 5.3.3 Utilizing the installed capacities of the plants, the Petitioners calculated the representative Plant Availability Factor (PAF) on an hourly basis for FY 2023-24 and FY 2024-25. For new generating stations and/or plants for which historical availability data was not available, the Petitioners adopted average hourly Plant Availability Factors as considered by the State Planning Cell (SPC) under the Resource Adequacy Plan.
- 5.3.4 Additionally, the Petitioners collected plant-wise maintenance and overhauling schedules, primarily from MP Genco’s thermal and hydro Generating units. Taking this information into account, the Petitioners exercised their best judgment in selecting appropriate hourly Plant Availability Factors for each generating station and accordingly projected the representative hourly availability for the financial year 2026-27. The month-wise hourly availability projected from all tied up stations are summarized in the Table below:

**Table 76: Hourly Availability Projections of FY 2026-27 (MUs)**

Hourly Actual Schedule (MUs)													
Existing ToD	Dates /Hours	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
Off Peak Night	00-01	350.87	370.16	344.63	313.57	329.78	330.10	385.17	368.60	384.26	399.26	354.01	375.33
	01-02	350.63	369.69	346.49	314.19	330.77	329.71	384.87	368.97	384.09	400.97	354.85	376.75
	02-03	351.22	371.29	352.93	315.55	324.16	330.32	385.71	370.64	378.24	395.65	356.59	377.61
	03-04	353.04	372.85	353.92	325.34	333.70	331.72	387.45	372.89	381.89	398.07	358.78	379.56
	04-05	355.02	374.46	356.25	327.41	347.63	343.84	388.36	375.50	389.03	398.20	360.49	380.89
	05-06	365.31	383.91	369.73	333.12	361.89	357.41	409.42	406.38	415.68	423.46	383.49	398.59
Morning Peak	06-07	400.23	415.09	393.48	358.57	380.68	379.86	429.42	437.35	472.32	480.17	431.71	444.93
	07-08	438.34	453.08	434.44	391.48	421.70	423.47	469.23	487.97	552.44	559.67	511.08	504.26
	08-09	463.99	489.76	462.89	418.57	448.74	450.47	499.27	529.25	589.02	600.60	552.21	552.04
Off Peak/ Solar Hours	09-10	485.16	501.53	482.11	447.82	464.04	464.02	527.94	557.70	612.76	625.76	575.93	580.17
	10-11	486.08	503.14	475.36	431.72	482.82	483.19	533.68	533.19	589.00	611.19	567.50	578.78
	11-12	501.02	522.22	492.63	448.56	499.77	502.73	549.83	550.10	606.73	626.65	591.05	606.42
	12-13	498.75	517.79	492.37	450.18	498.19	497.28	548.58	548.89	605.37	621.73	589.62	605.60

Hourly Actual Schedule (MUs)													
Existing ToD	Dates /Hours	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
	13-14	498.56	511.62	486.65	446.05	486.18	489.19	537.76	538.32	598.77	617.52	582.56	592.01
	14-15	481.53	493.16	470.32	431.99	476.12	478.78	522.17	526.13	579.37	600.98	571.32	579.50
	15-16	454.98	480.07	443.89	407.00	462.39	452.60	491.28	491.99	546.21	567.94	528.20	538.12
	16-17	443.53	464.63	447.15	406.53	437.06	433.81	465.77	498.36	560.23	576.79	526.22	518.64
Evening Peak	17-18	403.39	425.69	410.77	369.41	401.95	391.62	431.66	465.67	524.52	527.77	478.32	458.32
	18-19	377.37	395.32	391.62	347.84	373.85	366.92	415.48	428.59	481.94	486.96	429.73	410.11
	19-20	371.83	386.33	362.50	329.74	360.04	369.28	412.89	406.97	432.78	439.49	391.36	401.02
	20-21	369.83	388.45	365.23	331.02	341.72	344.05	388.04	374.42	403.16	416.85	381.35	395.98
	21-22	360.10	379.92	354.68	331.17	339.49	342.34	393.42	367.87	397.76	402.16	362.46	384.16
Off Peak Night	22-23	358.60	379.26	353.94	328.98	345.97	342.52	392.90	377.55	396.64	400.36	361.80	383.41
	23-24	357.27	377.18	351.51	326.98	344.19	351.56	390.84	376.00	394.01	396.88	359.49	381.81

5.3.5 The detailed summary of hourly plant availability factor considered for each generating station is provided in the Power Purchase model submitted to the Hon'ble Commission separately.

#### 5.4 Approach for Power Purchase Cost Estimation

5.4.1 After completing the assessment of hourly demand and availability for FY 2026-27, the Petitioners proceeded to calculate the hourly power purchase cost following the approach outlined below:

- ❖ For each representative hour of the month, the Petitioners first scheduled the must run stations viz Solar, Wind, Hydro, Biomass/Biogas and also nuclear stations against the corresponding hourly demand/normative energy requirement.
- ❖ After fulfilling the entire energy availability from must run sources, the Petitioners scheduled tied-up Thermal generating stations at their Technical Minimum level (@55%). The remaining energy requirement for each representative hour of the month was then computed after accounting for these must-run and Technical Minimum schedules.
- ❖ To fulfil the remaining normative energy requirement, the Petitioners applied Merit Order Dispatch, whereby the balance demand was met by scheduling thermal generating stations in ascending order of their energy charges, thereby optimizing cost efficiency.
- ❖ Based on the total energy scheduled from each Generating Station (including must-run, Technical Minimum, and Merit Order Dispatch), the Petitioners calculated the corresponding Variable Cost by applying the actual Energy Charges (in Rs./kWh) applicable to each respective station.

SI No	Source	Plant Capacity (MW)	MP's Share in %	MP's Share in MW
<b>G</b>	<b>Total (IPPs)</b>	<b>10317.50</b>		<b>3644.50</b>
102	DRE Solar	291.39	100.00%	291.39
103	ISTS Solar	3543.35	100.00%	3543.35
104	MP Solar	1169.00	100.00%	1169.00
	<b>Total (Solar)</b>	<b>5003.74</b>		<b>5003.74</b>
105	DRE Wind	539.65	100.00%	539.65
106	ISTS Wind	747.26	100.00%	747.26
107	MP Wind	1851.40	100.00%	1851.40
	<b>Total (Wind)</b>	<b>3138.31</b>		<b>3138.31</b>
108	<b>Bio Mass/Bio gas/MSW</b>	<b>41.90</b>	<b>100.00%</b>	<b>41.90</b>
<b>H</b>	<b>Total Renewable Energy</b>	<b>8183.95</b>		<b>8183.95</b>
<b>I</b>	<b>Grand Total</b>	<b>79070.86</b>		<b>25547.28</b>

\*Share of AKVNL has been excluded from total share of M.P.

6.1.7 With regard to NTPC Mouda STPS I & II, it is submitted that the firm shares of 156 MW and 212 MW, respectively, were surrendered and reallocated to Gujarat from March 21, 2021, until March 2026. This surrendered capacity will become available to Madhya Pradesh from April 2026. Therefore, the same is being considered for FY 2026-27.

6.1.8 It is submitted that while calculating the above contracted capacity, the Petitioners have considered the revised Allocation of Power to the State of MP, from Central Sector stations as specified by **Western Regional Power Committee** in their letter No. WRPC/Comm-I/6/Alloc/2025/1788-1819 dated 29<sup>th</sup> September 2025 and from **Eastern Region** NTPC Kahalgaon-2 vide GoI MoP letter no. ERPC/Comm-I/Gen/Share/2025-26/1188 dated 29<sup>th</sup> September 2025 and **Northern Region** as per Northern Regional Power Committee letter dated 1<sup>st</sup> October, 2025. Allocation from MP Genco and other sources have been considered based on inputs provided and latest updates from their concerned office.

## 6.2 Ex-Bus Availability Projections for FY 2026-27

6.2.1 The Petitioners in previous chapter of this Petition has elaborated the approach adopted to calculate the hourly availability projections for FY 2026-27. Based on such hourly availability the Petitioners have worked out the monthly availability against each existing and upcoming Generating Stations is shown in the Table below:

Table 80: Ex-Bus Availability (MUs) Source-wise for FY 2026-27

Sr.no.	Particulars	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
1	Amarkantak TPS Ph-III	120	121	95	-	78	102	126	130	139	139	122	127	1,300
2	Satpura TPS Ph-IV	286	288	264	194	174	232	285	311	315	325	293	297	3,266
3	SGTPS Ph-I & II	423	435	377	306	264	264	416	459	492	491	339	363	4,627
4	SGTPS Ph-III	263	190	277	268	269	223	281	291	273	305	275	286	3,200
5	Shri Singaji STPS Phase-I	640	658	700	632	524	255	595	683	733	731	645	671	7,467
6	Shri Singaji STPS Phase-II	724	764	727	371	390	609	794	747	881	874	802	810	8,492
<b>A</b>	<b>Total (MP Genco Thermal-MP Share)</b>	<b>2,455</b>	<b>2,456</b>	<b>2,440</b>	<b>1,770</b>	<b>1,700</b>	<b>1,684</b>	<b>2,497</b>	<b>2,620</b>	<b>2,834</b>	<b>2,865</b>	<b>2,476</b>	<b>2,554</b>	<b>28,352</b>
7	Rani Awanti Bai Sagar, Bargi HPS	29	30	40	42	58	57	31	38	32	36	39	39	471
8	Bansagar Ph I HPS (Tons)	49	51	42	23	68	89	87	92	83	63	62	80	789
9	Bansagar Ph-II HPS (Silpara)	9	10	5	5	5	9	10	13	11	10	8	9	103
10	Bansagar Ph-III HPS (Deolond)	8	-	21	23	7	24	10	-	-	-	-	-	93
11	Bansagar Ph-IV HPS (Jhinna)	8	8	5	6	7	7	8	8	8	7	6	6	83
12	Birsinghpur HPS	2	3	3	6	10	10	7	4	5	5	4	4	63
13	Madikhedda HPS	0	-	1	3	7	20	11	7	11	2	11	4	78
14	Rajghat HPS	0	4	1	9	16	14	5	3	12	17	16	10	106
15	Gandhisagar HPS	23	12	1	7	7	13	14	34	40	42	37	38	270
16	Ranapratap Sagar HPS	1	1	1	1	1	5	31	37	39	39	35	-	193
17	Jawahar Sagar HPS	6	7	7	13	24	24	18	10	13	14	10	9	156
18	Pench HPS	20	15	4	21	41	27	42	50	31	38	25	11	325
<b>B</b>	<b>Total (MP Genco Hydel)</b>	<b>156</b>	<b>141</b>	<b>130</b>	<b>158</b>	<b>254</b>	<b>300</b>	<b>274</b>	<b>296</b>	<b>285</b>	<b>274</b>	<b>253</b>	<b>210</b>	<b>2,730</b>
19	NHDC Indira Sagar HPS	122	143	142	160	491	482	352	200	268	277	210	177	3,025
20	NHDC Omkareshwar HPS	63	74	74	83	255	251	183	104	139	144	109	92	1,573
21	NVDA Sardar Sarovar HPS	101	118	118	132	406	398	291	166	222	229	174	146	2,500
22	Rihand HPS	0	2	3	5	7	14	14	2	1	8	8	4	68
23	Matatila HPS	0	2	0	1	4	4	4	4	4	6	5	3	36
24	SJVN Rampur HPS	0	0	0	0	0	0	0	0	0	0	0	0	2
25	SJVN Jhakri HPS	0	0	0	1	1	1	1	1	1	1	1	0	9
26	Tehri HPS	0	0	0	1	1	1	1	0	0	0	0	0	6
27	Koteshwar HPP	0	0	0	0	0	0	0	0	0	0	0	0	2
28	NHPC Parbati II & III	0	1	1	1	2	2	1	1	1	1	1	1	12
29	NHPC Chamera II	0	0	0	0	1	0	0	0	0	0	0	0	3
30	NHPC Chamera III	0	0	0	0	0	0	0	0	0	0	0	0	2
31	NHPC Dulhasti	0	0	0	0	1	1	0	0	0	0	0	0	3
32	NHPC Dhauliganga	0	0	0	0	0	0	0	0	0	0	0	0	2
33	NHPC Sewa II	0	0	0	0	0	0	0	0	0	0	0	0	1
34	NHPC Kishanganga	0	0	0	0	0	0	0	0	0	0	0	0	3
35	NTPC Koldam HPP I	0	0	0	0	1	1	0	0	0	0	0	0	3

Sr.no.	Particulars	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
36	NTPC Singrauli Small HPP	0	0	0	0	0	0	0	0	0	0	0	0	0
37	NHPC Lower Subansiri HEP Units	6	8	11	22	39	38	28	21	27	28	22	19	270
38	NHPC - Rangit	2	2	2	5	8	8	6	3	4	4	3	3	50
39	SAS Hydel Project Pvt Ltd.	1	1	1	3	5	5	3	2	3	3	2	2	31
40	Amhata Hydro Energy Pvt. Ltd.	0	1	1	1	2	2	1	1	1	1	1	1	11
41	Amhata Hydro Energy Pvt. Ltd. - II	0	1	1	1	2	2	1	1	1	1	1	1	11
42	Amhata Hydro Energy Pvt. Ltd. - IV	0	1	1	1	2	2	1	1	1	1	1	1	11
43	Sirmour Small Hydel Pvt. Ltd.	12	13	12	12	12	12	13	13	14	14	13	13	153
44	NVDA Indira sagar LBC HPS	2	2	2	4	8	7	5	3	4	4	3	3	47
45	NVDA Bargi LBC HPS	1	1	1	3	5	5	4	2	3	3	2	2	31
46	Mini & Micro Hydel Plants	1	1	1	2	4	4	3	1	2	2	2	1	23
<b>C</b>	<b>Total (JV Hydel &amp; Other Hydel-NR)</b>	<b>315</b>	<b>371</b>	<b>373</b>	<b>440</b>	<b>1,257</b>	<b>1,239</b>	<b>916</b>	<b>527</b>	<b>697</b>	<b>728</b>	<b>558</b>	<b>468</b>	<b>7,890</b>
47	NTPC Korba	267	278	240	231	212	256	297	309	331	293	228	298	3,239
48	NTPC Korba III	42	43	31	25	38	39	45	48	50	52	46	48	508
49	NTPC Vindychal I	234	236	212	204	203	188	221	257	261	258	248	239	2,761
50	NTPC Vindychal II	184	194	137	163	184	172	194	172	180	215	198	199	2,194
51	NTPC Vindychal III	143	147	141	144	119	114	155	162	174	172	155	159	1,784
52	NTPC Vindychal IV	165	170	159	136	144	137	146	184	196	194	175	179	1,985
53	NTPC Vindychal V Unit I	82	84	79	82	77	74	84	91	98	88	87	89	1,015
54	NTPC Sipat I	134	188	151	154	133	146	186	196	226	232	203	188	2,135
55	NTPC Sipat II	109	98	84	111	101	103	107	120	130	133	119	106	1,321
56	NTPC Mouda I	101	104	98	103	99	96	123	119	127	127	112	117	1,327
57	NTPC Mouda II Unit I	151	132	147	155	133	129	145	145	178	177	157	163	1,812
58	NTPC Solapur STPS	160	159	135	145	170	177	201	214	210	211	192	196	2,169
59	NTPC Gadawara STPS, Unit-I	224	244	235	182	184	177	194	248	288	285	264	257	2,781
60	NTPC Lara STPS, Raigarh, Unit I	97	105	92	98	86	83	76	83	99	125	112	118	1,176
61	NTPC Khargone STPS, Unit-I & II	360	392	304	209	357	365	430	452	451	475	394	412	4,601
62	NTPC Kawas GPP	0	0	0	0	0	0	0	0	0	0	0	0	0
63	NTPC Gandhar GPP	0	0	0	0	0	0	0	0	0	0	0	0	0
64	KAPP Kakrapar (including new capacity)	184	190	142	158	184	148	124	200	215	216	189	155	2,105
65	TAPP Tarapur	125	129	120	126	114	116	130	136	142	145	125	119	1,527
66	NTPC Gadawara STPS, Unit-2	237	259	249	193	195	188	206	263	305	302	280	273	2,951
<b>D</b>	<b>Total WR Region</b>	<b>3,000</b>	<b>3,152</b>	<b>2,756</b>	<b>2,619</b>	<b>2,733</b>	<b>2,707</b>	<b>3,066</b>	<b>3,400</b>	<b>3,661</b>	<b>3,703</b>	<b>3,282</b>	<b>3,314</b>	<b>37,393</b>
67	NTPC Kahaigaon II	48	47	46	46	40	30	48	47	45	56	49	51	553
68	LoI through DVC (Sep-2020 to Mar-2032)	61	60	61	64	59	54	67	68	73	73	63	64	767
<b>E</b>	<b>Total ER Region</b>	<b>109</b>	<b>107</b>	<b>107</b>	<b>111</b>	<b>98</b>	<b>84</b>	<b>116</b>	<b>115</b>	<b>118</b>	<b>128</b>	<b>112</b>	<b>114</b>	<b>1,320</b>
69	NTPC Auraiya GPP	1	1	1	1	1	1	1	1	1	1	1	1	13
70	NTPC Dadri GPP	1	1	1	1	1	1	1	2	2	2	1	1	17
71	NTPC Anta GPP	1	1	1	1	1	1	1	1	1	1	1	1	8

Sr.no.	Particulars	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
72	NTPC Firoz Gandhi Unchahar I	0	0	0	0	0	0	0	0	0	0	0	0	1
73	NTPC Firoz Gandhi Unchahar II	0	0	0	0	0	0	0	0	0	0	0	0	3
74	NTPC Firoz Gandhi Unchahar III	0	0	0	0	0	0	0	0	0	0	0	0	1
75	NTPC Firoz Gandhi Unchahar IV	0	0	0	0	0	0	0	0	0	0	0	0	3
76	NTPC Rihand TPS-I	1	1	0	0	0	0	1	1	1	1	1	1	6
77	NTPC Rihand TPS-II	1	1	0	0	0	0	1	1	1	1	1	1	6
78	NTPC Rihand TPS-III	1	1	0	0	0	0	1	1	1	1	1	1	6
79	NTPC NCTP Dadri II	1	1	0	0	0	0	1	1	1	1	1	1	6
80	NTPC Singrauli	1	1	1	1	1	1	1	1	1	1	1	1	13
81	NTPC IGPS I Jhajar	1	1	1	1	1	1	1	1	1	1	1	1	15
82	MEJA Urja Nigam	1	1	1	1	1	1	1	1	1	1	1	1	13
83	NTPC Tanda	0	0	0	0	0	0	0	1	1	1	0	0	6
84	Ghatampur TPP	0	0	0	0	0	0	0	1	1	1	1	1	6
85	Khurja STPS	1	1	1	1	1	1	1	2	2	2	1	2	18
86	Rajasthan (NPCIL)	2	2	2	2	2	1	2	2	2	2	2	2	20
87	NARORA (NPCIL)	1	1	1	1	1	1	1	1	1	1	1	1	8
<b>F</b>	<b>Total NR Region</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>17</b>	<b>17</b>	<b>14</b>	<b>15</b>	<b>171</b>
88	Torrent Power	-	-	-	-	-	-	-	-	-	-	-	-	-
89	BLA Power, Unit-I & II	16	18	16	15	15	15	16	16	19	18	16	19	198
90	Jaypee Bina Power	198	205	194	176	101	158	207	207	242	222	213	198	2,321
91	Lanco Amarkantak TPS Unit I	159	162	154	123	112	113	159	165	189	171	183	172	1,862
92	Reliance UMPP, Sasan	805	840	869	821	860	766	884	874	938	967	826	860	10,310
93	Essar Power STPS	31	31	26	25	20	20	30	24	27	35	31	35	336
94	Jaiprakash Power STPS, Nigri	287	308	293	251	157	244	314	313	317	345	294	314	3,438
95	MB Power STPS, Unit-I	117	125	123	128	110	116	123	126	102	134	122	125	1,452
96	MB Power STPS, Unit-II	117	125	123	128	110	116	123	126	102	134	122	125	1,452
97	Jhabua Power STPS, Unit-I	112	108	97	56	66	116	115	116	141	136	108	133	1,305
98	PFCL	128	137	135	140	120	126	136	139	114	149	135	138	1,597
<b>G</b>	<b>Total (IPPs)</b>	<b>1,971</b>	<b>2,059</b>	<b>2,030</b>	<b>1,865</b>	<b>1,672</b>	<b>1,790</b>	<b>2,107</b>	<b>2,106</b>	<b>2,193</b>	<b>2,311</b>	<b>2,049</b>	<b>2,118</b>	<b>24,271</b>
99	DRE Solar	92	93	86	87	86	80	83	85	97	102	466	491	1,848
100	ISTS Solar	1,002	1,018	940	952	938	970	1,005	1,021	1,175	1,226	1,143	1,205	12,596
101	MP Solar	228	226	210	208	212	193	188	189	220	245	239	258	2,616
102	DRE Wind	67	85	87	86	77	66	60	50	49	49	47	58	783
103	ISTS Wind	243	307	316	313	280	240	219	182	176	179	172	211	2,838
104	MP Wind	270	342	352	349	312	268	243	202	196	199	191	235	3,158
<b>H</b>	<b>Total Renewable Energy</b>	<b>1,908</b>	<b>2,080</b>	<b>1,999</b>	<b>2,003</b>	<b>1,911</b>	<b>1,823</b>	<b>1,803</b>	<b>1,731</b>	<b>1,918</b>	<b>2,003</b>	<b>2,263</b>	<b>2,464</b>	<b>23,905</b>
<b>I</b>	<b>Grand Total</b>	<b>9,928</b>	<b>10,380</b>	<b>9,847</b>	<b>8,979</b>	<b>9,637</b>	<b>9,640</b>	<b>10,793</b>	<b>10,810</b>	<b>11,722</b>	<b>12,029</b>	<b>11,008</b>	<b>11,259</b>	<b>126,031</b>

**6.8 Summary of Power Purchase Cost for FY 2026-27**

6.8.1 The following Table provides the comparison of the total power purchase costs (fixed costs and variable costs) of Stations as approved in the MYT Order and as projected for FY 2026-27 before consideration of MPPMCL Cost and treatment of surplus energy:

**Table 98: Revised claim of Station-wise Power Purchase Cost for FY 2026-27 against approved in MYT Order**

Sr. No	Particulars	Approved for FY 2026-27 in MYT Order			Revised claim for FY 2026-27						
		Fixed Charge	Variable Charge	Total	Energy Availability (MUs)	Energy Schedule (MUs)		Variable Cost (Rs. Cr)		Fixed Charges (Rs. Cr)	Total Charges (Rs. Crore)
						As per TMM/ Must Run	As per MOD	For TMM/ Must Run	For MOD		
1	Amarkantak TPS Ph-III	162.11	188.02	350.13	1300.3	715.1	422.9	146.7	86.8	174.0	407.5
2	Satpura TPS Ph-IV	603.99	846.71	1450.7	3265.6	1796.1	343.4	570.1	109.0	511.2	1190.3
3	SGTPS Ph-I & II	432.08	1256.82	1688.9	4627.3	2545.0	1113.2	693.8	303.5	571.6	1568.9
4	SGTPS Ph-III	309.32	797.91	1107.23	3200.3	1760.1	1009.5	370.2	212.4	321.4	904.0
5	Shri Singaji STPS Phase-I	1246.84	1363.92	2610.76	7466.8	4106.7	363.5	1416.9	125.4	1081.5	2623.8
6	Shri Singaji STPS Phase-II	1314.19	705.21	2019.4	8492.0	4670.6	1286.0	1375.7	378.8	1164.0	2918.4
<b>A</b>	<b>Total (MP Genco Thermal-MP Share)</b>	<b>4,068.53</b>	<b>5,158.59</b>	<b>9,227.12</b>	<b>28352.3</b>	<b>15593.7</b>	<b>4538.6</b>	<b>4573.4</b>	<b>1215.8</b>	<b>3823.7</b>	<b>9612.9</b>
7	Rani Awanti Bai Sagar, Bargi HPS	8.12	7.71	15.83	471.0	471.0	0.0	35.7	0.0	9.9	45.6
8	Bansagar Ph I HPS (Tons)	21.34	87.46	108.8	788.9	788.9	0.0	62.7	0.0	23.3	86.0
9	Bansagar Ph-II HPS (Silpara)	25.92	7.78	33.7	103.4	103.4	0.0	6.7	0.0	23.3	30.0
10	Bansagar Ph-III HPS (Deolond)	25.92	8.26	34.18	93.3	93.3	0.0	9.9	0.0	23.3	33.2
11	Bansagar Ph-IV HPS (Jhinna)	4.82	5.39	10.21	82.9	82.9	0.0	6.7	0.0	5.2	11.9
12	Birsinghpur HPS	2.19	3.67	5.86	62.6	62.6	0.0	5.2	0.0	3.1	8.3
13	Madikheda HPS	9.47	19.56	29.03	78.0	78.0	0.0	14.3	0.0	10.5	24.8
14	Rajghat HPS	2.7	4.41	7.11	106.5	106.5	0.0	24.9	0.0	3.9	28.9
15	Gandhisagar HPS	3.34	3.06	6.4	269.5	269.5	0.0	36.6	0.0	4.9	41.5
16	Ranapratap Sagar HPS	0	45.08	45.08	192.5	192.5	0.0	29.1	0.0	0.0	29.1
17	Jawahar Sagar HPS	0	45.08	45.08	155.7	155.7	0.0	23.5	0.0	0.0	23.5

Sr. No	Particulars	Approved for FY 2026-27 in MYT Order			Revised claim for FY 2026-27						
		Fixed Charge	Variable Charge	Total	Energy Availability (MUs)	Energy Schedule (MUs)		Variable Cost (Rs. Cr)		Fixed Charges (Rs. Cr)	Total Charges (Rs. Crore)
						As per TMM/ Must Run	As per MOD	For TMM/ Must Run	For MOD		
18	Pench HPS	9.5	9.42	18.92	325.3	325.3	0.0	21.2	0.0	11.1	32.3
<b>B</b>	<b>Total (MP Genco Hydel)</b>	<b>113.32</b>	<b>201.8</b>	<b>315.12</b>	<b>2729.6</b>	<b>2729.6</b>	<b>0.0</b>	<b>276.5</b>	<b>0.0</b>	<b>118.6</b>	<b>395.1</b>
19	NHDC Indira Sagar HPS	279.46	280.37	559.83	3024.5	3024.5	0.0	545.1	0.0	279.5	824.6
20	NHDC Omkareshwar HPS	199.22	228.57	427.79	1572.8	1572.8	0.0	316.1	0.0	171.4	487.5
21	NVDA Sardar Sarovar HPS	101.45	178.85	280.3	2499.8	2499.8	0.0	221.3	0.0	101.4	322.7
22	Rihand HPS	0	4.44	4.44	67.9	67.9	0.0	2.7	0.0	0.0	2.7
23	Matatila HPS	0	1.61	1.61	35.8	35.8	0.0	1.4	0.0	0.0	1.4
24	SJVN Rampur HPS	0.5	0.6	1.1	2.2	2.2	0.0	0.5	0.0	0.6	1.0
25	SJVN Jhakri HPS	1.08	1.31	2.39	8.7	8.7	0.0	1.1	0.0	1.3	2.4
26	Tehri HPS	1.03	1.12	2.15	5.8	5.8	0.0	1.3	0.0	1.0	2.2
27	Koteshwar HPP	0.37	0.4	0.77	2.3	2.3	0.0	0.8	0.0	0.6	1.3
28	NHPC Parbati II & III	0.62	0.49	1.11	11.6	11.6	0.0	2.0	0.0	0.6	2.6
29	NHPC Chamera II	0.38	0.44	0.82	3.2	3.2	0.0	0.4	0.0	0.5	1.0
30	NHPC Chamera III	0.45	0.48	0.93	2.0	2.0	0.0	0.5	0.0	0.5	1.0
31	NHPC Dulhasti	1.09	1.06	2.15	3.4	3.4	0.0	0.9	0.0	1.1	2.0
32	NHPC Dhaufiganga	0.29	0.3	0.59	2.5	2.5	0.0	0.4	0.0	0.4	0.7
33	NHPC Sewa II	0.3	0.34	0.64	1.1	1.1	0.0	0.2	0.0	0.3	0.5
34	NHPC Uri II	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	NHPC Kishanganga	0.49	0.47	0.96	2.9	2.9	0.0	0.9	0.0	1.0	1.9
36	NTPC Koldam HPP I	0.79	0.92	1.71	3.3	3.3	0.0	0.5	0.0	0.8	1.3
37	NTPC Singrauli Small HPP	0	0.11	0.11	0.1	0.1	0.0	0.0	0.0	0.0	0.0
38	NHPC Lower Subansiri HEP Units	0	25.14	25.14	270.1	270.1	0.0	137.5	0.0	0.0	137.5
39	NHPC -Tiesta	-	-	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	NHPC - Rangit	-	-	0	50.4	50.4	0.0	22.0	0.0	0.0	22.0

Sr. No	Particulars	Approved for FY 2026-27 in MYT Order			Revised claim for FY 2026-27						
		Fixed Charge	Variable Charge	Total	Energy Availability (MUs)	Energy Schedule (MUs)		Variable Cost (Rs. Cr)		Fixed Charges (Rs. Cr)	Total Charges (Rs. Crore)
						As per TMM/ Must Run	As per MOD	For TMM/ Must Run	For MOD		
41	SAS Hydel Project Pvt Ltd.	-	-	0	30.7	30.7	0.0	17.7	0.0	0.0	17.7
42	Ambhata Hydro Energy Pvt. Ltd.	-	-	0	11.3	11.3	0.0	6.3	0.0	0.0	6.3
43	Ambhata Hydro Energy Pvt. Ltd. - II	-	-	0	11.3	11.3	0.0	6.6	0.0	0.0	6.6
44	Ambhata Hydro Energy Pvt. Ltd. - IV	-	-	0	11.3	11.3	0.0	6.8	0.0	0.0	6.8
45	Sirmour Small Hydel Pvt. Ltd.	-	-	0	153.0	153.0	0.0	86.3	0.0	0.0	86.3
46	NVDA Indira sagar LBC HPS	-	-	0	47.2	47.2	0.0	11.5	0.0	0.0	11.5
47	NVDA Bargi LBC HPS	-	-	0	31.5	31.5	0.0	8.4	0.0	0.0	8.4
48	Mini & Micro Hydel Plants	-	-	0	22.8	22.8	0.0	13.2	0.0	0.0	13.2
<b>C</b>	<b>Total (JV Hydel &amp; Other Hydel)</b>	<b>587.52</b>	<b>727.02</b>	<b>1314.54</b>	<b>7889.6</b>	<b>7889.6</b>	<b>0.0</b>	<b>1412.5</b>	<b>0.0</b>	<b>560.8</b>	<b>1973.2</b>
49	NTPC Korba	225.38	653.5	878.88	3239.0	1781.4	1070.4	273.4	164.3	250.3	687.9
50	NTPC Korba III	70.08	100.09	170.17	508.4	278.5	169.4	44.2	26.9	56.3	127.4
51	NTPC Vindiyachal I	269.99	687.55	957.54	2760.9	1506.4	849.8	327.2	184.6	270.5	782.2
52	NTPC Vindiyachal II	152.14	489.21	641.35	2194.0	1190.8	624.5	265.4	139.2	170.8	575.4
53	NTPC Vindiyachal III	175.71	388.24	563.95	1783.5	959.7	533.2	211.2	117.3	153.5	482.0
54	NTPC Vindiyachal IV	303.52	394.33	697.85	1985.1	1061.8	636.8	222.6	133.5	321.9	677.9
55	NTPC Vindiyachal V Unit I	159.85	223.45	383.3	1015.3	541.7	283.2	121.2	63.4	163.3	347.9
56	NTPC Sipat I	294.02	433.63	727.65	2135.2	1138.5	710.7	185.1	115.5	280.1	580.7
57	NTPC Sipat II	158.27	242.92	401.19	1321.2	700.1	427.9	127.4	77.9	126.4	331.8
58	NTPC Mouda I	24.39	57.25	81.64	1327.1	702.1	18.6	255.4	6.8	17.3	279.4
59	NTPC Mouda II Unit I	24.73	71.38	96.11	1811.8	956.4	34.9	337.1	12.3	25.6	375.0
60	NTPC Solapur STPS	487.44	519.84	1007.28	2168.6	1142.0	0.0	593.9	0.0	458.1	1052.0
61	NTPC Gadarwara STPS, Unit-1	570.18	937.21	1507.39	2781.4	1464.9	21.8	591.2	8.8	598.7	1198.7
62	NTPC Lara STPS, Raigarh, Unit I	138.17	184.38	322.55	1175.9	613.6	373.0	123.2	74.9	283.5	481.5

Sr. No	Particulars	Approved for FY 2026-27 in MYT Order			Revised claim for FY 2026-27						
		Fixed Charge	Variable Charge	Total	Energy Availability (MUs)	Energy Schedule (MUs)		Variable Cost (Rs. Cr)		Fixed Charges (Rs. Cr)	Total Charges (Rs. Crore)
						As per TMM/ Must Run	As per MOD	For TMM/ Must Run	For MOD		
63	NTPC Khargone STPS, Unit-I & II	851.54	1074.02	1925.56	4600.7	2386.1	0.0	1040.6	0.0	994.0	2034.6
64	NTPC Kawas GPP	86.91	115.72	202.63	0.9	0.5	0.3	0.0	0.0	0.1	0.1
65	NTPC Gandhar GPP	92.06	271.38	363.44	1.0	0.5	0.4	0.0	0.0	0.1	0.1
66	KAPP Kakrapar	0	178.41	178.41	2104.8	2104.8	0.0	767.9	0.0	0.0	767.9
67	TAPP Tarapur	0	542.71	542.71	1526.8	1526.8	0.0	524.2	0.0	0.0	524.2
68	NTPC Gadawara STPS, Unit-2	570.18	891.03	1461.21	2951.0	1529.4	4.1	617.3	1.7	598.7	1217.6
<b>D</b>	<b>Total WR Region</b>	<b>4,654.56</b>	<b>8,456.25</b>	<b>13,110.81</b>	<b>37392.7</b>	<b>21586.0</b>	<b>5759.1</b>	<b>6628.4</b>	<b>1126.9</b>	<b>4769.1</b>	<b>12524.4</b>
69	NTPC Kahalgaon II	56.71	111.09	167.8	552.5	284.9	140.6	74.1	36.6	47.8	158.4
70	DVC (MTPS & CTPS)				767.1	394.2	63.6	132.1	21.3	105.7	259.1
<b>E</b>	<b>Total ER Region</b>	<b>56.71</b>	<b>111.09</b>	<b>167.8</b>	<b>1319.6</b>	<b>679.1</b>	<b>204.3</b>	<b>206.2</b>	<b>57.9</b>	<b>153.4</b>	<b>417.6</b>
71	NTPC Auraiya GPP	0.74	3.13	3.87	13.1	6.7	0.0	5.9	0.0	1.0	6.9
72	NTPC Dadri GPP	0.76	3.77	4.53	17.1	8.8	4.3	2.3	1.1	0.9	4.4
73	NTPC Anta GPP	0.52	0.54	1.06	8.3	4.3	1.0	1.3	0.3	0.5	2.2
74	NTPC Firoz Gandhi Unchahar I	0.25	0.29	0.55	0.9	0.4	0.0	0.2	0.0	0.1	0.3
75	NTPC Firoz Gandhi Unchahar II	0.7	0.5	1.2	2.7	1.4	0.0	0.5	0.0	0.3	0.8
76	NTPC Firoz Gandhi Unchahar III	0.43	0.35	0.78	1.3	0.7	0.0	0.3	0.0	0.2	0.5
77	NTPC Firoz Gandhi Unchahar IV	1.32	1.07	2.39	3.2	1.6	0.2	0.6	0.1	0.5	1.2
78	NTPC Rihand TPS-I	1.16	2.4	3.56	6.4	3.3	2.1	0.6	0.4	0.5	1.4
79	NTPC Rihand TPS-II	1.09	3.05	4.14	6.4	3.3	2.1	0.6	0.4	0.5	1.4
80	NTPC Rihand TPS-III	2.45	3.35	5.8	6.4	3.3	2.1	0.5	0.3	0.9	1.8
81	NTPC NCTP Dadri II	2.13	1.67	3.8	6.2	3.2	0.0	1.3	0.0	0.8	2.1
82	NTPC Singrauli	1.9	5.31	7.21	12.8	6.6	4.2	1.2	0.7	1.0	2.9
83	NTPC IGPS I Jhajjar	2.05	0.15	2.2	15.1	7.7	0.0	3.3	0.0	2.3	5.6
84	MEJA Urja Nigam	2.04	1.56	3.6	13.1	6.7	1.2	2.2	0.4	2.9	5.5

Sr. No	Particulars	Approved for FY 2026-27 in MYT Order			Revised claim for FY 2026-27						
		Fixed Charge	Variable Charge	Total	Energy Availability (MUs)	Energy Schedule (MUs)		Variable Cost (Rs. Cr)		Fixed Charges (Rs. Cr)	Total Charges (Rs. Crore)
						As per TMM/ Must Run	As per MOD	For TMM/ Must Run	For MOD		
85	NTPC Tanda	1.71	3.82	5.53	5.6	2.9	2.0	0.4	0.3	1.0	1.7
86	Ghatampur TPP	0	0	0	6.0	3.1	0.6	1.0	0.2	2.0	3.2
87	Khurja STPS	0	0	0	17.6	9.1	5.3	2.0	1.2	2.3	5.5
88	Rajasthan (NPCIL)	0	4.14	4.14	20.4	20.4	0.0	8.3	0.0	0.0	8.3
89	NARORA (NPCIL)	0	2.37	2.37	8.5	8.5	0.0	2.3	0.0	0.0	2.3
<b>F</b>	<b>Total NR Region</b>	<b>19.25</b>	<b>37.47</b>	<b>56.73</b>	<b>171.1</b>	<b>102.0</b>	<b>25.2</b>	<b>34.7</b>	<b>5.4</b>	<b>17.9</b>	<b>57.9</b>
90	Torrent Power	0	0	0	0.0	0.0	0.0	0.0	0.0	26.2	26.2
91	BLA Power, Unit-I & II	16.09	57.1	73.19	198.4	101.7	0.0	41.5	0.0	71.9	113.4
92	Jaypee Bina Power	413.65	493.46	907.11	2320.5	1198.9	171.8	409.9	58.7	367.6	836.2
93	Lanco Amarkantak TPS Unit 1	264.22	394.3	658.52	1862.0	948.0	508.6	221.7	119.0	264.2	604.9
94	Reliance UMPP, Sasan	166.58	1592.74	1759.32	10310.2	4870.7	3569.7	736.8	540.0	166.3	1443.2
95	Essar Power STPS	0	0	0	336.3	157.3	111.9	32.6	23.2	0.0	55.7
96	Jaiprakash Power STPS, Nigri	521.57	247.81	769.38	3438.1	1555.5	1268.0	128.8	105.0	484.0	717.8
97	MB Power STPS, Unit-I	440.06	775.83	1215.89	1451.9	633.2	306.0	179.3	86.6	220.0	486.0
98	MB Power STPS, Unit-II	0	0	0	1451.9	624.3	286.4	176.8	81.1	220.0	477.9
99	Jhabua Power STPS, Unit-I	225.45	389.67	615.12	1304.6	555.9	111.8	180.9	36.4	225.5	442.8
100	PFCCCL	0	0	0	1597.5	671.7	435.7	171.0	110.9	76.4	358.3
<b>G</b>	<b>Total (IPPs)</b>	<b>2,047.62</b>	<b>3,950.91</b>	<b>5,998.53</b>	<b>24271.4</b>	<b>11317.2</b>	<b>6770.0</b>	<b>2279.3</b>	<b>1160.9</b>	<b>2122.2</b>	<b>5562.4</b>
101	DRE Solar				1847.7	1847.7	0.0	723.8	0.0	0.0	723.8
102	ISTS Solar	0	4130.27	4130.27	12595.5	12595.5	0.0	3333.5	0.0	0.0	3333.5
103	MP Solar				2615.7	2615.7	0.0	1428.4	0.0	0.0	1428.4
104	DRE Wind				782.5	782.5	0.0	404.6	0.0	0.0	404.6
105	ISTS Wind	0	5374.03	5374.03	2837.9	2837.9	0.0	820.0	0.0	0.0	820.0
106	MP Wind				3158.4	3158.4	0.0	1761.2	0.0	0.0	1761.2

Sr. No	Particulars	Approved for FY 2026-27 in MYT Order			Revised claim for FY 2026-27					Total Charges (Rs. Crore)		
		Fixed Charge	Variable Charge	Total	Energy Availability (MUs)		Energy Schedule (MUs)		Variable Cost (Rs. Cr)		Fixed Charges (Rs. Cr)	
					As per TMM/ Must Run	As per MOD	As per MOD	For TMM/ Must Run	For MOD			
107	Bio Mass/Bio gas/MSW	0	0	0	66.6	66.6	0.0	0.0	49.1	0.0	49.1	
<b>H</b>	<b>Total Renewable Energy</b>	<b>0</b>	<b>9504.3</b>	<b>9504.3</b>	<b>23904.5</b>	<b>23904.5</b>	<b>0.0</b>	<b>0.0</b>	<b>8520.6</b>	<b>0.0</b>	<b>8520.6</b>	
<b>I</b>	<b>IEX/Short Term Purchase</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>J</b>	<b>Total</b>	<b>11,547.51</b>	<b>28,147.43</b>	<b>39,694.95</b>	<b>1,26,030.8</b>	<b>83,801.7</b>	<b>17,297.2</b>	<b>3,566.9</b>	<b>23,931.6</b>	<b>11,565.8</b>	<b>39,064.3</b>	

6.8.2 The Table below shows the Total costs (fixed costs and variable costs) of Stations allocated to MP State and the three Discoms after consideration of MPPMCL Cost, net savings from surplus energy and considering the transmission charges (Inter State & Intra State) for FY 2026-27:

Table 99: Total Power Purchase Cost for MP State for FY 2026-27

Sr. No	Particulars	Claim for FY 2026-27		
		Fixed Charge	Variable Charge	Total
1	Gross Power Purchase Cost	11,566	27,498	39,064
2	Less: Saving in variable cost of surplus energy from sale of surplus energy		510	510
3	Gross Power Purchase Cost after Saving in Variable Cost	11,566	26,988	38,554
4	Add: MPPMCL Cost		276	276
5	Add: Cost due to RPO		-	-
<b>6</b>	<b>Net Power Purchase Cost</b>	<b>11,566</b>	<b>27,264</b>	<b>38,830</b>
7	Inter-state Transmission Charges	3,367		3,367
8	MPPTCL Charges including SLDC Charges	6,356		6,356
<b>9</b>	<b>Total Power Purchase Cost</b>	<b>21,289</b>	<b>27,264</b>	<b>48,553</b>

The Total Power Purchase cost excluding MPPTCL Charges is again distributed among the three Discoms according to the DBST Methodology for individual Discoms as summarized below:

#### 6.9 Distribution Bulk Supply Tariff methodology for Allocation of Power Purchase Cost to Discoms

O.P.No.....77...of 2025

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Eastern Power Distribution Company Of Andhra Pradesh Limited

(A Govt. Of A.P. Enterprise & An ISO 9001:2015 & ISO 27001:2013 Certified Company) CIN/U40109AP2000SGC034117



**Aggregate Revenue Requirement and Tariff proposal for the Retail Supply Business for FY 2026-27**

*SCB*  
*SR*  
*30/11*



30<sup>th</sup> November 2025

Generating Station	D Link	Variable Cost (Rs. / kWh)	Energy Dispatch (MU)												Total
			April	May	June	July	August	September	October	November	December	January	February	March	
<b>FY 2025-26</b>															
<b>Energy Dispatch (MU)</b>															
<b>MUST RUN</b>			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	NET MU
Srisailem RCPH			0.47	0.03	4.99	177.93	172.71	169.42	24.92	23.52	23.54	21.82	19.76	12.14	651.24
NSRCPH			-0.01	-0.01	-0.01	1.28	14.01	17.45	7.67	7.06	5.89	3.64	1.44	0.61	58.99
NSTPDC PH			-0.03	-0.04	-0.02	4.16	4.63	5.10	5.75	3.92	3.14	2.18	1.80	1.47	32.06
Upper Sileru			19.59	7.18	10.15	16.93	15.18	11.36	15.33	16.46	16.48	15.27	14.37	13.98	172.28
Lower Sileru			38.91	39.26	37.48	38.14	39.08	35.97	34.50	31.36	31.39	29.46	30.53	27.96	414.04
Donkaravi			4.90	4.42	2.06	2.79	4.54	4.78	3.26	2.82	2.75	2.62	2.51	2.45	39.90
PABM			-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.58	0.33	0.27	0.13	0.06	0.05	1.37
Minihydel(Chettipet)			0.10	0.00	0.00	0.08	0.09	0.06	0.03	0.02	0.11	0.14	0.10	0.13	0.85
Machkund HES (AP Share)			8.46	11.62	12.44	13.51	13.00	12.41	9.58	10.78	11.77	10.91	8.98	8.74	132.20
Tungabhadra HES (AP Share)			1.29	-0.05	-0.06	6.39	10.73	10.19	7.67	6.27	4.71	2.91	2.30	0.84	53.18
NCE - Others			7.58	8.06	7.34	7.47	11.13	10.45	8.94	9.39	9.02	8.28	7.80	8.40	103.87
NCE Solar			273.63	255.45	207.47	207.59	212.57	209.93	244.96	234.45	234.69	243.71	300.46	308.30	2933.20
NCE WIND			122.55	287.45	496.64	574.68	391.10	307.18	68.08	82.00	101.03	137.31	127.54	113.56	2809.14
SECI (APRAPS/COM)			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.06	65.17	81.93	220.16
NPC(MAPS)			1.82	1.96	1.26	2.00	2.17	0.00	0.00	2.28	2.36	2.19	1.96	2.10	20.12
NPC(KAIGA unit I,II,III,IV)			21.18	22.62	16.39	15.01	24.24	23.31	22.39	22.11	22.91	21.24	18.98	20.41	250.78
JNNSM Ph-1 Thermal			7.67	8.22	1.26	9.63	7.13	5.34	10.40	9.20	9.65	9.67	8.66	9.38	96.23
KKNPP Unit-I			0.06	0.06	0.14	0.72	0.00	0.00	0.20	0.20	0.21	0.19	0.17	0.19	2.15
Godavari Gas Power Plant			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TS NPDC (TSRCC)			0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28
NTPC(SR) Talcher Stage-II			43.46	42.58	34.42	30.86	36.62	27.77	50.41	48.21	51.65	47.92	42.68	46.05	502.64
SEIL P2 (500MW Firm)			115.20	122.82	127.47	61.88	130.19	121.57	121.21	119.94	124.07	115.00	102.58	110.51	1372.44
SEIL P1 (230MW)			59.88	58.92	51.69	56.14	51.97	54.20	58.70	65.06	13.03	62.38	55.65	59.95	647.56
SEIL P1 (660MW)			0.00	81.99	105.14	115.03	80.00	113.35	118.38	129.63	134.09	165.98	148.07	159.50	1351.16
NLC NTPS			11.75	10.01	8.57	5.11	6.51	8.50	13.49	11.11	13.81	12.95	11.57	12.45	125.81
NLC TPS- I Expn.			0.06	0.05	0.11	0.60	0.55	0.29	1.00	1.63	1.69	1.56	1.39	1.50	10.44
NLC Stage-II			7.92	5.09	5.13	5.40	7.45	7.13	13.19	11.77	13.87	11.66	11.64	14.63	114.87
NLC Stage-I			3.33	2.24	6.13	3.02	3.22	3.63	6.47	7.37	6.34	7.95	7.85	8.46	66.00
NLC TPS- II Expn.			0.00	0.02	0.04	0.21	0.48	0.62	2.03	1.81	1.77	2.21	1.98	2.12	13.29
Dr. NTPS V			125.89	39.26	126.19	115.45	125.81	90.87	129.03	127.67	132.07	122.41	109.20	117.63	1361.48
NTPC Telangana STPS - I			0.21	0.24	0.17	0.27	0.33	0.42	10.08	4.99	8.49	9.56	8.53	9.19	52.48
HNPLC			115.56	114.82	166.96	199.28	202.77	126.51	133.71	167.41	173.17	160.50	143.18	154.24	1858.10
NTPC(SR) Simhadri Stage-II			49.32	42.98	27.56	16.49	30.99	33.74	58.13	57.53	59.50	55.15	49.20	53.00	533.58
NTPC(SR) Ramagundam III			16.02	13.86	12.09	10.24	10.54	8.58	22.01	21.78	22.53	20.89	18.63	20.07	197.25
NTPC(SR) Simhadri Stage-I			114.42	102.12	84.96	69.65	80.01	75.84	120.21	77.32	65.49	114.04	101.73	109.59	1115.39
APPDCL Stage-II			136.59	166.35	13.25	141.96	147.66	124.79	99.05	120.94	125.10	115.95	103.44	111.43	1406.51
NTPC(SR) Ramagundam I & II			61.50	50.62	40.83	29.96	32.88	26.91	87.94	87.02	71.58	77.52	70.20	77.14	714.08
NTECL Valluru			18.17	14.13	11.48	4.22	8.84	12.61	25.38	25.12	16.97	21.62	21.48	23.14	203.16
APPDCL Stage-I			243.51	241.01	237.72	213.21	211.96	211.25	180.36	135.03	279.36	258.93	230.98	248.82	2692.16
Dr. NTPS-IV			99.81	92.59	91.27	15.67	51.82	75.45	92.33	91.37	94.51	87.60	78.15	84.18	954.74
NTP(NLC TamilNadu)			22.47	6.74	17.70	13.58	13.69	16.10	34.58	17.11	35.40	29.10	29.27	31.53	267.28
Dr. NTPS			232.10	214.06	189.49	183.83	204.74	177.13	242.85	220.06	206.67	200.03	205.64	221.41	2497.91
RTPP Stage-IV			105.54	95.95	95.10	91.17	99.16	87.28	114.94	113.73	117.85	0.00	97.28	104.79	1122.59
NTPC Kudgi Stage-I			34.77	25.10	22.31	13.71	13.58	12.81	65.15	64.47	39.14	0.00	55.14	59.40	405.57
SEIL P2 (125MW Open Cap)			25.88	24.32	25.58	0.00	24.19	23.57	30.26	29.99	31.03	28.76	25.65	27.63	296.87
RTPP Stage-I			58.48	63.48	56.33	63.04	64.39	66.33	79.22	60.87	0.00	0.00	52.72	72.23	637.08
RTPP Stage-II			76.20	58.16	68.72	47.35	46.19	65.18	34.63	67.60	0.00	0.00	0.00	39.51	503.54
RTPP Stage-III			37.47	36.70	35.71	30.78	27.41	31.84	0.00	45.47	0.00	0.00	0.00	0.00	245.37

Generating Station	D Link	Variable Cost (Rs. / kWh)	Energy Dispatch (MU)												Total		
			April	May	June	July	August	September	October	November	December	January	February	March			
NET SHORTTERM			-17.00	-24.84	-26.81	-64.92	-56.72	-20.44	0.00	5.23	0.00	0.00	0.00	0.00	0.00	0.00	-205.49
Swapping power			112.60	0.00	-172.27	-143.50	-126.70	-105.79									-435.66
UI CHARGES			5.01	-13.09	-6.76	-3.40	-7.89	-9.35									-35.47
Market Purchases			166.54	165.70	138.56	87.70	98.26	99.32									756.08
Swapping Import			0.00	0.00	0.00	0.00	0.00	0.00	14.83	18.91	3.96	17.07	9.24	57.20		121.21	
Swapping Export			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.72	-5.71	0.00	0.00		-16.43	
<b>Total Power Purchase MU</b>			<b>2590.78</b>	<b>2500.18</b>	<b>2392.36</b>	<b>2493.60</b>	<b>2543.20</b>	<b>2390.96</b>	<b>2423.83</b>	<b>2418.30</b>	<b>2312.12</b>	<b>2325.79</b>	<b>2405.56</b>	<b>2649.94</b>		<b>29446.62</b>	

### Hourly Demand Supply Gap (Annexure-I)

Date/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-04-2026	37.7	106.7	59.1	70.0	220.5	261.3	204.1	-300.5	-377.6	-763.2	-1155.0	-973.1	-986.2	-1000.2	-625.1	-308.9	-151.2	-309.3	360.7	356.9	377.0	592.7	607.8	472.4
02-04-2026	143.6	24.5	108.3	-13.9	206.7	182.4	20.4	-495.1	-410.7	-766.4	-1103.1	-1076.7	-1000.6	-1030.6	-738.8	-362.4	-192.7	-199.1	485.0	284.4	330.9	409.5	425.8	239.8
03-04-2026	67.6	80.6	111.3	222.4	312.2	346.4	219.4	-262.1	-346.7	-625.4	-967.3	-1015.8	-817.5	-910.2	-605.9	-240.5	-111.3	-296.7	330.6	33.7	231.7	330.6	442.9	256.4
04-04-2026	95.0	88.0	30.3	200.9	420.5	293.0	163.6	-266.0	-443.8	891.4	-1187.6	-1095.7	-1087.3	-893.4	-715.2	-245.7	-95.8	-203.9	325.9	126.4	40.4	311.8	317.0	208.1
05-04-2026	81.3	-81.1	65.4	32.6	136.8	186.4	99.0	-183.4	-686.4	-976.5	-921.8	-900.5	-844.9	-729.5	-580.3	-691.0	-763.3	-163.9	163.1	163.1	308.1	211.9	391.3	343.8
06-04-2026	288.1	289.4	172.7	80.7	58.7	63.1	-81.2	-618.1	-722.6	-946.7	-1294.4	-1440.0	-1197.3	-1063.0	-809.9	-659.3	-496.3	-490.3	131.9	-21.9	346.0	480.4	522.0	487.6
07-04-2026	355.3	289.2	221.3	131.6	184.3	144.2	8.6	-367.5	-394.9	-800.8	-1290.7	-1242.3	-1202.3	-1043.2	-794.0	-467.9	-475.3	-659.6	72.4	272.0	500.0	630.0	496.1	513.7
08-04-2026	520.3	445.4	141.6	294.6	236.4	367.1	56.4	-423.8	-461.0	-947.1	-1280.8	-1225.1	-1254.2	-1213.1	-926.5	-524.5	-432.7	-431.1	-68.0	263.6	495.0	574.2	423.5	516.8
09-04-2026	146.1	-37.8	57.7	-31.1	-1.9	-30.7	-224.2	-766.2	-871.3	-1247.2	-1683.8	-1710.4	-1603.8	-1416.8	-1088.2	-586.5	-490.9	-473.5	-154.1	-235.9	-22.4	288.1	380.0	335.0
10-04-2026	361.5	193.0	368.9	132.6	174.2	416.7	161.8	-416.9	-606.2	-1009.6	-1148.2	-1184.3	-1111.8	-1071.7	-963.1	-684.0	-532.7	-539.6	34.1	127.5	116.6	25.6	143.1	-13.7
11-04-2026	-312.7	-436.9	-486.9	-274.1	-84.8	37.1	-9.7	-328.2	-957.9	-1203.3	-1560.9	-1615.7	-1603.6	-1474.2	-1055.2	-675.1	-434.7	-282.0	519.5	323.6	506.5	570.1	472.0	434.2
12-04-2026	300.5	200.2	193.5	276.9	324.1	313.9	144.7	313.9	-1153.9	-824.2	-1153.9	-1134.9	-1152.9	-1089.3	-885.8	-612.6	-477.6	-438.8	72.8	96.9	36.2	310.0	446.2	508.1
13-04-2026	509.9	268.0	145.6	312.6	187.4	110.2	16.1	-476.6	-640.8	-1028.7	-1404.5	-1399.2	-1395.3	-1379.9	-1297.3	-810.0	-638.8	-599.8	40.2	-32.3	-50.0	-599.9	-796.1	-766.3
14-04-2026	-587.7	-548.2	-310.6	-325.1	-159.1	-226.4	-302.9	-888.5	-1133.0	-1424.4	-1746.9	-1882.0	-1937.6	-1752.0	-1494.3	-1188.0	-752.9	-713.5	-0.1	117.0	245.6	318.0	403.0	430.9
15-04-2026	315.4	293.0	224.6	207.7	182.9	70.9	-51.6	-469.1	-786.3	-1024.6	-1402.2	-1501.0	-1502.8	-1454.5	-1067.5	-1107.6	-1107.6	-750.5	-178.9	-211.9	-23.3	137.6	269.0	-32.4
16-04-2026	-16.4	-219.5	-304.8	-407.3	-213.3	-159.0	-304.9	-757.5	-849.8	-1148.2	-1474.7	-1438.5	-1385.9	-1343.4	-1087.2	-631.2	-437.0	-307.2	247.0	357.9	176.3	441.6	276.1	193.1
17-04-2026	169.9	151.4	100.6	48.8	79.9	69.0	-53.0	-610.4	-751.3	-1081.5	-1375.4	-1336.1	-1288.3	-1204.2	-804.5	-502.9	-136.4	-135.5	444.8	373.5	283.0	503.7	555.5	464.4
18-04-2026	265.5	335.3	194.6	309.9	308.2	329.4	161.6	-307.5	-504.8	-914.0	-1207.3	-1266.5	-1201.4	-1074.6	-913.2	-532.5	-459.2	-238.7	441.5	464.4	737.7	913.7	845.1	825.8
19-04-2026	282.6	420.5	434.9	315.9	400.0	414.3	200.2	-332.2	-646.6	-822.5	-1190.1	-1149.7	-1095.4	-1034.9	-827.8	-440.0	-397.2	-192.4	369.7	491.4	671.5	808.9	709.1	371.4
20-04-2026	457.5	425.8	451.1	440.4	495.6	377.6	189.5	-337.6	-490.3	-803.0	-1065.3	-1127.9	-825.1	-956.2	-781.7	-377.9	-139.3	-280.9	346.2	521.2	646.7	770.2	840.2	968.2
21-04-2026	759.2	633.3	593.8	477.8	367.9	244.0	174.2	-261.7	-462.5	-824.7	-1062.2	-1072.2	-958.4	-818.3	-488.6	-53.6	-21.7	575.1	575.1	638.8	822.6	925.6	812.6	716.8
22-04-2026	702.3	750.2	621.1	469.1	434.2	301.4	59.2	-404.2	-392.1	-703.7	-974.2	-756.1	-743.6	-534.0	-258.6	88.1	291.4	124.3	598.5	639.4	828.2	1130.3	1111.7	870.3
23-04-2026	763.0	489.2	328.4	298.3	309.9	220.9	-15.7	-411.4	-406.6	-654.3	-975.4	-732.1	-666.2	-480.2	-131.3	265.6	386.0	194.3	758.7	722.5	867.0	1066.3	1129.7	685.8
24-04-2026	637.6	321.8	145.7	160.5	270.8	120.2	-87.0	-536.5	-695.4	-868.4	-989.2	-888.9	-710.6	-559.6	-261.0	75.5	74.4	-94.3	541.1	652.5	793.4	1013.6	856.3	757.2
25-04-2026	458.8	208.0	277.6	200.4	45.0	40.6	-96.7	-662.3	-601.6	-1009.7	-1288.9	-1213.0	-993.6	-628.8	-406.9	153.7	292.7	44.4	695.2	786.1	905.2	1161.5	1214.3	1074.9
26-04-2026	776.2	528.0	522.8	436.0	510.8	375.8	207.1	-212.2	-101.3	-520.1	-838.1	-725.9	-673.7	-478.6	-201.9	98.0	407.9	200.3	418.4	559.0	744.3	706.7	576.6	544.3
27-04-2026	426.3	315.2	287.8	390.7	394.8	385.2	58.1	-443.0	-382.6	-808.5	-1045.8	-1066.7	-1025.0	-780.3	-512.6	11.4	25.8	10.8	478.4	583.7	779.7	991.3	987.8	671.0
28-04-2026	700.2	609.5	599.8	560.7	480.6	512.2	255.8	-193.0	-298.7	-592.0	-898.7	-886.1	-873.9	-808.4	-473.8	-124.6	22.2	-207.7	187.0	277.9	362.3	323.4	374.0	319.2
29-04-2026	237.7	30.7	182.5	266.0	267.6	118.3	-145.8	-490.3	-528.7	-899.1	-1163.5	-1038.8	-844.2	-878.2	-481.3	23.1	233.3	78.6	433.9	383.7	493.2	777.1	810.0	764.0
30-04-2026	594.1	349.9	193.6	-63.0	25.4	61.1	-45.4	-454.1	-597.7	-934.8	-1254.3	-1239.8	-1193.7	-1154.9	-996.9	-533.3	-316.7	-302.5	-29.1	206.9	133.9	368.4	304.4	174.1
01-05-2026	159.6	229.1	186.6	167.3	91.9	148.2	-47.0	-712.2	-773.6	-1075.3	-1389.4	-1119.4	-1088.2	-957.7	-786.7	-536.6	-294.6	-547.6	364.9	463.2	509.5	972.5	933.6	472.4
02-05-2026	160.7	65.1	-150.1	-321.6	-303.1	-141.8	-176.8	-803.2	-1037.0	-1406.7	-1488.3	-1440.5	-1381.3	-1211.5	-759.4	-542.3	-246.2	3.3	632.3	664.9	775.7	1125.6	1065.1	874.0
03-05-2026	452.3	225.8	313.6	319.0	372.6	371.0	118.0	-362.0	-551.7	-921.9	-1085.2	-1086.2	-1026.9	-873.8	-652.6	-659.2	-624.6	-465.7	201.7	315.1	614.9	561.0	457.4	478.0
04-05-2026	181.5	48.4	84.7	-49.9	15.5	23.6	-94.1	-743.5	-1217.4	-1050.9	-2713.9	-2727.8	-2710.7	-2379.4	-1883.1	-1332.2	-1009.9	-250.3	82.0	675.4	723.4	831.7	793.9	504.1
05-05-2026	-267.1	-359.7	-397.5	-319.8	-278.1	-271.8	-423.0	-935.6	-1271.0	-1518.8	-1853.2	-1707.8	-1706.1	-1624.4	-1515.6	-1214.7	-902.2	-585.7	314.8	675.4	723.4	831.7	793.9	504.1
06-05-2026	225.8	-33.7	-62.5	-192.2	9.3	109.0	-244.6	-798.0	-998.7	-1398.4	-1541.6	-1531.9	-1310.3	-1255.4	-999.6	-547.3	-378.0	-266.0	434.9	621.6	845.8	868.6	855.1	773.5
07-05-2026	790.0	634.0	433.9	357.0	369.8	320.8	48.6	-707.7	-809.9	-1005.2	-1232.8	-1307.7	-1264.5	-1378.5	-1233.1	-1082.5	-761.3	-565.8	311.2	363.9	389.6	734.3	772.4	717.2
08-05-2026	372.9	691.2	446.5	355.0	385.6	359.9	147.0	-444.6	-674.3	-1027.5	-1260.7	-1241.1	-1191.7	-1061.8	-931.6	-673.9	-371.0	-71.9	538.5	653.6	983.8	1033.4	995.8	830.5
09-05-2026	687.1	607.4	356.0	248.3	293.9	270.8	194.6	-395.3	-700.1	-1042.5	-1301.7	-1207.1	-1207.1	-1122.4	-1011.4	-983.5	-472.9	-314.0	544.2	702.6	571.3	799.7	475.3	559.1
10-05-2026	483.7	349.1	312.7	347.9	328.7	419.5	122.9	-413.0	-520.7	-791.8	-1185.7	-1142.9	-1093.5	-921.0	-668.9	-340.7	-129.2	-179.8	474.3	720.5	1008.7	1237.6	1279.7	1086.3
11-05-2026	1015.8	804.1	384.2	520.3	493.1	392.8	188.2	-523.8	-580.9	-827.0	-1023.5	-1017.3	-1019.6	-870.8	-597.2	-214.5	-272.5	-274.8	450.0	696.2	932.5	1208.3	1335.7	1279.1
12-05-2026	1124.3	820.0	737.9	657.6	540.1	464.5	304.1	-224.2	-245.1	-515.9	-775.4	-656.0	-702.5	-560.3	-249.5	-55.3	-48.8	-326.4	220.6	298.7	538.0	771.5	835.5	718.0
13-05-2026	723.3	647.7	655.8	501.9	535.9	469.5	365.6	-284.3	-388.8	-615.1	-821.4	-661.1	-552.0	-248.1	35.5	165.5	428.4	147.0	800.9	852.2	1009.5	1187.5	1286.9	1095.9
14-05-2026	981.7	899.1	813.2	726.5	649.2	635.1	465.0	-14.6	-176.2	-488.8	-976.5	-855.7	-779.5	-533.1	-384.8	-102.3	-46.7	-192.8	262.7	396.2	716.7	799.6	732.9	656.6
15-05-2026	704.3	859.7	793.4	838.2	800.3	698.0	305.3	-212.1	-327.8	-526.1	-824.3	-724.1	-627.8	-616.2	-398.9	-391.0	-665.6	-555.1	257.7	479.1	681.2	902.3	825.5	629.8
16-05-2026	553.8	646.6	500.0	346.2	255.4	-33.0	-118.2	-559.2	-807.8	-1121.4	-1255.3	-1127.6	-1011.4	-830.1	-434.9	-92.5	-66.1	-151.4	310.8	522.5	703.3	1200.8	1197.2	1155.2
17-05-2026	1072.9	868.7	705.7																					

Date/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-05-2026	245.8	280.8	289.7	163.4	95.4	2.1	-264.3	-713.4	-1038.4	-1377.6	-1667.4	-1606.6	-1558.0	-1557.7	-1266.5	-926.1	-925.7	-534.2	165.7	537.0	699.2	963.1	845.4	765.3
01-06-2026	904.6	789.3	598.4	476.6	537.6	521.5	168.9	-412.8	-738.1	-1159.2	-1539.1	-1436.2	-1346.2	-1057.9	-669.8	-314.2	-280.2	-30.4	272.8	795.6	962.1	1269.8	1568.3	1248.2
02-06-2026	1090.5	928.9	912.8	829.8	703.6	583.9	130.6	-283.4	-696.2	-1083.9	-1291.9	-1263.2	-1267.6	-981.9	-631.4	-487.5	-270.8	-375.9	149.3	604.6	856.6	1327.0	1192.3	1189.2
03-06-2026	1076.4	1088.3	900.9	800.1	782.2	575.4	278.9	-244.7	-656.5	-1267.8	-1352.3	-1290.3	-1305.3	-1005.1	-747.8	-466.5	-516.6	-569.4	400.5	655.6	801.1	1316.6	1176.4	1129.5
04-06-2026	877.0	852.6	702.0	629.9	623.0	569.6	188.7	-304.0	-700.4	-1108.1	-1301.5	-1207.6	-1089.4	-940.6	-628.8	-463.9	-529.1	-483.9	27.3	785.0	1078.6	1261.2	1290.5	1060.4
05-06-2026	903.7	608.8	531.6	605.5	646.1	531.2	168.6	-224.2	-551.2	-912.3	-1030.1	-839.9	-754.3	-339.3	-187.3	37.3	-202.9	-183.7	401.2	572.7	822.1	1170.6	755.2	482.3
06-06-2026	616.9	511.6	524.0	517.1	481.7	554.9	171.6	-274.7	-467.6	-1036.8	-1119.8	-1000.7	-906.2	-514.7	-389.7	-416.8	-343.0	-379.7	139.3	425.5	597.7	989.0	581.6	696.5
07-06-2026	468.9	235.3	221.9	234.8	379.9	322.8	8.9	-572.5	-804.5	-1237.4	-1252.7	-967.8	-940.6	-830.6	-510.5	-261.3	-542.5	-501.8	-16.7	198.8	413.8	1019.2	1084.4	817.2
08-06-2026	756.6	536.9	552.3	372.1	378.8	238.2	-11.8	-643.1	-629.4	-820.3	-1039.3	-767.6	-849.9	-555.3	-41.1	209.6	89.0	-138.8	556.8	647.1	797.6	979.3	1059.9	974.3
09-06-2026	880.2	734.9	491.3	549.9	492.6	487.8	120.5	-478.7	-790.2	-1386.2	-1518.1	-1179.6	-1131.5	-1101.4	-597.2	-299.2	-214.0	-75.6	174.0	259.1	343.9	482.2	454.4	505.3
10-06-2026	338.0	203.7	127.3	-20.4	-121.1	464.3	-567.1	-830.2	-1178.3	-1610.0	-1507.5	-1612.5	-1484.7	-1528.3	-1370.7	-835.7	-736.3	-700.2	-47.2	189.4	502.2	886.7	469.0	435.5
11-06-2026	316.2	191.4	86.4	8.8	-52.9	-232.1	-665.0	-1031.8	-1142.2	-1407.8	-1596.9	-1438.8	-1352.0	-1242.4	-943.3	-761.4	-688.8	-805.3	128.7	113.5	392.1	557.8	563.9	309.3
12-06-2026	111.5	358.3	220.8	78.3	-52.7	-164.5	-229.1	-825.7	-1150.0	-1295.5	-1622.2	-1580.8	-1583.5	-1605.7	-1573.8	-1472.9	-1087.2	-889.4	15.5	184.2	406.6	861.2	643.1	514.0
13-06-2026	328.8	261.9	145.7	294.7	238.2	81.8	-81.2	-749.3	-824.1	-1222.0	-1503.5	-1539.6	-1663.1	-1687.3	-1135.3	-1020.0	-875.1	-578.6	-46.6	47.7	172.3	347.5	322.9	187.8
14-06-2026	148.9	234.7	204.9	24.8	-36.0	-219.8	-456.1	-747.6	-1424.6	-1841.4	-2249.3	-2116.2	-1964.4	-1837.7	-1841.6	-1592.0	-1294.6	-880.9	-175.1	-86.5	151.3	491.7	619.8	575.7
15-06-2026	395.0	187.8	81.6	-16.5	-89.4	-125.6	-442.8	-1063.6	-1273.3	-1469.5	-1649.4	-1692.0	-1693.1	-1609.5	-1249.4	-1199.9	-707.3	-539.2	135.3	376.8	514.0	595.4	730.1	364.1
16-06-2026	358.2	347.6	247.5	130.9	171.3	-14.4	-171.7	-764.5	-972.7	-1377.6	-1641.8	-1526.8	-1487.1	-1323.9	-1067.6	-915.8	-616.5	-411.5	374.4	684.7	689.7	818.1	822.2	777.5
17-06-2026	693.3	563.1	477.0	413.6	359.2	399.0	128.0	-562.3	-930.3	-1124.5	-1259.8	-1308.9	-1331.1	-1144.3	-1005.4	-753.6	-442.9	-143.3	425.2	620.8	826.9	921.1	807.8	843.7
18-06-2026	705.5	629.8	660.4	518.2	599.3	434.7	96.3	-519.9	-646.7	-829.4	-1079.6	-1103.0	-1058.0	-1106.3	-895.8	-887.9	-550.5	-263.2	361.8	674.0	702.8	703.2	787.4	702.6
19-06-2026	362.1	426.0	280.2	291.3	146.7	249.2	102.2	-403.3	-571.8	-922.6	-1227.7	-1218.2	-1191.4	-914.4	-652.8	-10.9	-93.7	-176.3	20.3	663.6	822.4	1148.8	908.2	787.9
20-06-2026	753.8	663.2	406.8	308.3	330.8	330.8	108.8	-517.8	-812.0	-1041.4	-1110.9	-1235.3	-1168.0	-827.4	-451.3	-204.5	92.1	177.6	744.6	654.2	449.4	607.3	653.7	573.9
21-06-2026	748.5	385.1	380.2	390.9	435.8	258.1	244.6	-785.1	-1195.8	-1439.4	-1424.2	-1487.8	-1237.8	-886.9	-586.1	-345.3	-172.3	497.0	289.2	224.3	289.2	224.3	281.5	223.0
22-06-2026	81.9	177.7	29.0	120.6	78.9	-40.5	-395.5	-753.7	-1105.9	-1420.8	-1641.7	-1675.2	-1708.5	-1839.2	-1431.1	-1197.7	-767.0	-381.7	79.8	417.9	410.5	181.0	81.2	51.0
23-06-2026	21.9	104.3	-231.3	-108.3	127.9	173.0	-38.6	-454.4	-953.3	-1250.4	-1639.7	-1615.3	-1491.0	-1439.5	-1244.1	-911.8	-690.9	-306.6	297.3	660.6	323.7	-198.1	-296.7	26.0
24-06-2026	84.0	32.7	-96.5	-235.0	-142.9	-78.0	-111.4	-574.0	-1133.0	-1259.5	-1543.7	-1671.6	-1574.6	-1499.2	-1351.3	-1090.2	-882.6	-466.7	77.0	453.3	286.3	286.3	151.0	-1.6
25-06-2026	-160.7	-208.2	-234.0	-218.7	-69.0	-49.6	-166.0	-465.9	-788.0	-1425.0	-1662.2	-1728.0	-1702.8	-1667.7	-1344.5	-1106.3	-751.6	-306.0	504.9	684.1	684.3	549.5	110.4	133.5
26-06-2026	-95.7	-313.7	-261.4	-129.8	41.1	79.9	-20.3	-332.1	-923.4	-1291.1	-1714.7	-1839.6	-1782.6	-1688.7	-1225.7	-887.0	-641.7	-125.4	608.8	878.8	820.2	639.2	488.2	135.9
27-06-2026	122.8	-110.6	-74.5	156.5	85.4	290.6	248.9	-274.3	-605.1	-941.2	-1444.3	-1426.8	-1376.2	-1381.0	-971.7	-598.3	-371.3	39.4	663.5	777.8	983.9	874.1	737.5	756.0
28-06-2026	847.0	511.1	513.6	337.3	292.1	226.9	36.5	-378.7	-624.1	-969.7	-1245.6	-1380.5	-1373.7	-1317.0	-1116.9	-812.7	-580.7	-283.9	444.9	762.0	818.9	700.8	368.7	-154.0
29-06-2026	-99.4	-22.8	-38.9	41.5	-40.2	-70.7	6.9	-556.9	-1078.0	-1507.5	-1782.8	-1717.2	-1912.7	-1882.6	-1551.8	-1370.8	-1208.1	-345.2	216.3	315.0	316.7	374.0	162.9	-182.0
30-06-2026	-774.4	-91.8	-867.5	-730.0	-534.0	-539.1	-554.8	-992.5	-1664.4	-1815.8	-2121.9	-2275.5	-2130.2	-2179.1	-1981.6	-1482.8	-1139.2	192.3	-276.7	-174.3	-48.8	-389.4	-523.9	-662.0
01-07-2026	-692.4	-678.0	-667.6	-870.3	-638.5	-522.1	-421.0	-924.7	-1445.0	-2122.2	-2402.8	-2575.3	-2531.3	-2551.5	-2174.1	-1841.4	-1530.1	-1255.3	-491.5	-294.9	-373.8	-514.5	-554.7	-657.1
02-07-2026	-750.1	-920.5	-930.1	-864.0	-1026.6	-906.1	-859.5	-1269.9	-1376.1	-1686.9	-1907.5	-1986.0	-2084.6	-2209.2	-1846.9	-1646.5	-1374.6	-1077.6	-459.8	-651.7	-595.0	-707.4	-810.9	-802.0
03-07-2026	-861.5	-897.9	-1082.5	-987.7	-889.2	-819.6	-755.3	-1096.0	-1650.4	-2058.6	-2361.5	-2366.9	-2435.3	-2439.0	-2091.8	-1785.9	-1409.4	-967.6	-620.9	-444.3	-352.3	-230.2	-252.3	-629.2
04-07-2026	-438.6	-431.9	-438.7	-490.8	-385.7	-484.2	-657.9	-1090.7	-1671.8	-1777.0	-2018.5	-2206.6	-2082.9	-1919.0	-1556.6	-1356.9	-1062.0	-920.7	-437.4	-311.6	-165.5	-133.9	-162.8	-322.8
05-07-2026	-112.5	-226.0	-237.3	-382.9	-395.8	-444.1	-423.4	-1116.0	-1339.6	-1741.6	-2132.7	-1934.1	-1926.8	-1662.9	-1270.6	-1483.8	-1340.6	-1208.9	-594.8	-371.0	-236.6	-69.3	-127.7	-255.7
06-07-2026	-231.4	-366.5	-514.7	-417.6	-310.2	-306.3	-313.4	-944.6	-1453.1	-1730.6	-2355.8	-2358.0	-2338.1	-2401.0	-1961.3	-1852.6	-1590.8	-1065.4	-476.2	-466.3	-273.4	46.8	-139.9	-266.9
07-07-2026	-145.0	-326.7	-360.8	-381.2	-426.8	-461.7	-441.1	-878.4	-1278.2	-1706.6	-2200.8	-2362.1	-2337.3	-2327.8	-1909.5	-1497.4	-1395.8	-904.3	-498.7	-349.9	-114.1	174.1	81.8	-26.8
08-07-2026	-148.4	-104.9	41.7	-48.6	-38.4	-166.0	-296.7	-596.1	-962.7	-1210.5	-1500.9	-1496.8	-1464.2	-1516.2	-1136.8	-854.9	-619.1	-491.1	-461.9	-242.5	279.3	197.9	497.3	439.5
09-07-2026	128.4	54.1	19.5	-69.6	-183.8	-88.3	-294.1	-715.7	-875.2	-1208.1	-1337.8	-1350.3	-1302.6	-1233.7	-791.6	-619.1	-491.1	-180.2	0.1	428.5	652.7	921.4	1062.8	1073.5
10-07-2026	375.3	129.0	49.1	26.0	80.6	-16.0	-61.9	-456.5	-1051.1	-1357.2	-1610.5	-1648.0	-1589.8	-1334.5	-951.3	-592.7	-180.2	0.1	428.5	652.7	921.4	1062.8	1073.5	847.2
11-07-2026	458.1	491.0	385.6	152.9	40.9	33.0	-68.7	-415.1	-580.0	-843.7	-1040.6	-1033.8	-992.5	-781.2	-356.2									

Date/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-08-2026	110.5	53.6	67.4	-9.5	-94.4	-14.0	-139.9	-570.6	-1001.1	-1458.4	-1686.1	-1810.1	-1604.9	-1387.7	-870.4	-594.7	-431.7	-371.4	181.4	385.0	490.3	554.5	482.4	436.6
02-08-2026	164.3	42.0	-115.7	-86.1	-157.7	-177.1	-282.5	-768.2	-850.8	-1163.5	-1392.2	-1200.8	-1227.9	-1257.7	-1062.2	-844.9	-551.6	-485.7	-498.0	-44.7	198.4	432.6	524.7	443.5
03-08-2026	139.5	49.2	20.1	5.2	70.0	-298.7	-479.0	-945.3	-924.9	-1191.1	-1343.6	-1307.4	-1246.5	-1168.9	-987.0	-610.7	-533.4	-639.9	-179.5	-81.3	54.4	428.4	450.6	379.5
04-08-2026	443.9	248.0	144.6	-72.7	-135.4	-206.4	-291.9	-794.6	-872.8	-1152.5	-1294.4	-1275.4	-1058.7	-1189.1	-916.5	-655.8	-544.9	-348.5	-113.0	-57.5	377.8	312.3	568.2	91.1
05-08-2026	266.2	220.1	77.6	52.2	-71.0	-257.8	-365.9	-932.9	-1074.8	-1472.2	-1447.2	-1353.5	-1314.0	-1088.7	-833.8	-785.1	-730.9	-694.1	-420.0	-197.4	-158.9	106.9	164.1	91.1
06-08-2026	243.9	51.2	126.4	72.6	-270.7	-262.4	-482.7	-747.8	-1063.6	-1417.2	-1515.5	-1477.3	-1483.8	-1212.4	-1086.6	-927.2	-822.8	-897.3	-401.5	-118.7	180.8	397.8	375.3	475.1
07-08-2026	116.3	75.2	3.5	-119.8	-79.7	91.4	-157.6	-675.9	-1030.8	-1543.6	-1675.6	-1703.8	-1698.0	-1830.6	-1783.6	-1348.9	-1149.2	-1035.2	-404.4	-86.9	115.3	278.2	349.8	129.0
08-08-2026	-47.5	-235.2	-197.1	-294.2	-142.9	-286.0	-262.6	-917.7	-1188.8	-1557.4	-1427.2	-1318.9	-1677.7	-1838.0	-1375.5	-1182.3	-1098.5	-987.3	-162.0	-187.8	-64.4	210.5	257.6	125.2
09-08-2026	-191.8	-292.6	-395.3	-496.0	-504.2	-354.6	-489.0	-958.4	-1060.3	-1449.6	-1555.6	-1497.2	-1405.6	-1469.4	-1619.0	-1145.6	-822.7	-909.8	-445.0	-148.2	-40.6	121.2	105.2	-213.2
10-08-2026	-246.6	-309.1	-326.3	-444.8	-455.8	-406.4	-553.3	-1134.0	-1315.6	-1701.3	-1780.0	-1736.1	-1766.6	-2006.4	-1619.0	-1337.1	-1165.2	-939.4	-533.3	-528.3	-264.8	-26.5	-151.5	-92.2
11-08-2026	-255.7	-307.2	-310.6	-357.7	-369.4	-481.8	-549.7	-828.1	-866.2	-1731.8	-1828.3	-1783.6	-1838.2	-1861.5	-1899.2	-1508.9	-1177.8	-1165.2	-939.4	-533.3	-264.8	-26.5	-151.5	-92.2
12-08-2026	-319.4	-463.3	-399.7	-550.0	-579.5	-674.4	-810.5	-1327.7	-1672.8	-1916.2	-2018.2	-1957.3	-1979.0	-1941.9	-1805.5	-1601.7	-1459.6	-1193.3	-708.3	-346.6	-147.7	-55.6	-148.3	-187.4
13-08-2026	-331.1	-344.3	-328.2	-420.5	-548.5	-760.3	-793.0	-1394.7	-1977.7	-2148.9	-2300.6	-2145.6	-2087.1	-2181.0	-2016.8	-1730.2	-1477.3	-1232.5	-587.6	-475.8	-279.0	-449.5	-392.3	-590.1
14-08-2026	-519.5	-845.6	-874.9	-862.5	-893.4	-774.3	-937.1	-1347.6	-1911.5	-2302.9	-2493.4	-2452.6	-2596.1	-2680.9	-2408.8	-2116.7	-1604.8	-1301.0	-420.8	-447.5	-373.5	-204.9	-236.6	-229.2
15-08-2026	-385.5	-468.1	-412.8	-384.5	-517.3	-556.0	-754.6	-1157.6	-1718.5	-2188.7	-2445.4	-2395.9	-2228.0	-2197.5	-2028.8	-1763.0	-1466.2	-1099.1	-413.9	-320.0	-361.9	-174.7	-105.9	-220.0
16-08-2026	-492.6	-478.5	-539.1	-659.6	-673.3	-688.6	-656.8	-1156.0	-1614.9	-2289.6	-2570.5	-2439.3	-2320.6	-2285.2	-2070.8	-1864.6	-1419.1	-1317.8	-47.3	-412.2	-493.0	-394.2	-465.0	-428.7
17-08-2026	-403.5	-552.5	-633.3	-628.1	-649.9	-551.8	-699.4	-1113.8	-1487.0	-2070.0	-2536.2	-2712.1	-2703.6	-2707.9	-2540.4	-2364.5	-1880.3	-1384.7	-652.4	-566.9	-579.2	-347.6	-597.2	-540.3
18-08-2026	-617.7	-750.5	-774.3	-740.7	-778.6	-793.4	-829.5	-1417.9	-2002.1	-2355.8	-2908.8	-2799.6	-2808.8	-2883.3	-2686.8	-2466.2	-2136.1	-1335.0	-845.1	-747.1	-634.4	-706.4	-929.8	-931.0
19-08-2026	-974.4	-1115.0	-1137.2	-1182.3	-1132.3	-1107.1	-1137.8	-1506.2	-1951.5	-2285.0	-2621.0	-2587.7	-2486.4	-2517.9	-2536.4	-2118.4	-1781.0	-1267.4	-389.1	-438.9	-530.1	-822.9	-883.8	-1062.0
20-08-2026	-1087.2	-1118.8	-1051.3	-978.9	-940.7	-938.5	-1035.0	-1395.4	-2085.1	-2534.3	-2776.3	-2699.9	-2442.1	-2544.7	-2367.1	-2123.2	-1619.3	-1467.9	-402.6	-396.9	-510.6	-497.1	-386.4	-397.0
21-08-2026	-534.4	-557.0	-551.6	-534.9	-514.8	-611.9	-840.3	-1265.0	-1612.2	-1935.9	-2305.3	-2311.5	-2305.2	-2097.4	-1880.4	-1875.9	-1409.5	-1175.0	-291.3	-422.5	-95.7	-48.0	100.3	84.2
22-08-2026	8.3	-74.6	-128.0	-199.9	-237.5	-275.0	-341.2	-779.5	-1322.2	-1854.9	-2234.4	-2282.1	-2026.4	-2026.4	-1669.1	-1299.0	-1010.6	-657.0	-82.7	114.7	193.4	330.7	365.3	139.9
23-08-2026	146.0	133.4	36.1	-24.3	-19.4	-15.4	-119.8	-849.0	-1260.9	-1580.6	-1834.2	-1813.8	-1811.9	-1820.8	-1501.0	-1313.0	-1124.3	-804.9	-85.9	55.9	393.4	433.2	332.9	271.8
24-08-2026	188.6	0.3	12.5	12.5	12.5	-139.1	-218.5	-626.7	-829.4	-1150.4	-1613.6	-1537.5	-1608.6	-1608.6	-1307.7	-1111.5	-906.4	-695.0	-32.3	-88.3	118.5	394.0	247.9	121.8
25-08-2026	52.0	-135.1	-261.4	-328.2	-326.5	-346.6	-271.7	-647.5	-972.9	-1469.1	-1710.8	-1539.3	-1409.8	-1376.8	-1312.9	-1078.0	-733.7	-609.7	48.0	172.4	214.6	211.7	198.3	188.3
26-08-2026	-102.2	-246.0	-298.0	-305.7	-395.6	-376.2	-323.2	-666.5	-1122.8	-1452.6	-1704.6	-1711.5	-1697.8	-1879.7	-1792.3	-1459.7	-1246.9	-593.0	120.6	42.4	77.4	68.8	-211.0	-450.6
27-08-2026	-588.5	-745.3	-684.6	-660.4	-628.4	-676.3	-692.0	-1053.1	-1493.6	-1783.3	-2156.8	-2242.8	-2203.5	-2359.7	-2082.9	-1828.8	-1828.8	-1351.0	-735.9	-212.1	-343.2	-302.7	-436.0	-883.8
28-08-2026	-956.5	-917.2	-832.7	-798.6	-900.2	-723.0	-693.3	-1262.3	-1852.3	-2164.0	-2394.8	-2376.4	-2256.5	-2509.7	-2035.9	-1607.0	-1269.9	-835.6	-60.4	-180.3	-100.8	-176.8	-301.2	-353.1
29-08-2026	-679.9	-727.5	-794.4	-614.2	-502.4	-489.2	-509.6	-964.2	-1461.0	-1840.8	-2331.3	-2314.1	-2282.4	-2363.0	-2109.9	-1832.4	-1328.1	-890.1	-105.7	-246.1	-176.8	-140.0	-185.7	-210.2
30-08-2026	-412.2	-559.2	-539.0	-434.6	-429.8	-468.4	-543.3	-856.2	-1027.9	-1728.3	-2181.4	-2078.9	-1983.4	-2016.6	-1699.9	-1394.1	-1175.0	-720.3	-407.7	-113.2	-144.9	87.9	-38.8	-218.8
31-08-2026	-273.3	-298.8	-203.9	-126.9	-99.6	-72.3	-157.4	-743.6	-1034.9	-1361.9	-1700.1	-1656.1	-1625.3	-1578.6	-1302.9	-1184.8	-1097.3	-522.3	247.6	160.2	408.7	385.5	181.7	135.4
01-09-2026	265.0	18.7	-203.6	-96.3	-212.6	-115.6	-364.6	-873.3	-1190.7	-1460.6	-1711.8	-1671.5	-1404.1	-1703.3	-1570.9	-1117.8	-1111.9	-371.1	159.2	251.6	485.5	341.4	446.4	383.7
02-09-2026	109.3	5.5	-75.5	-107.2	-185.8	-202.1	-296.5	-606.6	-993.0	-1353.1	-1608.1	-1627.1	-1644.8	-1789.0	-1518.7	-1224.1	-775.0	-398.9	253.7	438.6	416.9	481.9	540.7	332.0
03-09-2026	138.5	61.8	168.0	50.6	80.5	6.9	-140.9	-627.3	-998.2	-1270.6	-1468.8	-1505.8	-1612.8	-1514.4	-1414.2	-982.1	-885.2	-472.9	259.2	226.6	389.1	226.6	204.5	160.4
04-09-2026	68.2	36.5	101.3	-4.0	36.2	98.8	-96.2	-632.6	-1000.2	-1405.7	-1631.0	-1737.5	-1491.1	-1161.6	-858.6	-802.2	-408.7	-378.9	387.1	568.4	521.6	590.0	645.4	480.2
05-09-2026	324.1	129.7	143.4	8.3	2.3	76.0	-166.6	-638.7	-967.5	-1210.0	-1777.9	-1184.3	-1226.5	-1234.3	-1000.5	-725.6	-587.2	-365.9	444.7	652.4	772.0	742.8	622.7	461.0
06-09-2026	298.2	181.4	127.4	245.3	182.3	165.4	43.4	-356.5	-783.8	-1148.8	-1435.2	-1425.4	-1271.4	-1314.5	-912.5	-787.0	-525.4	-438.0	240.7	468.3	528.2	439.9	391.7	423.2
07-09-2026	374.8	281.7	197.6	140.3	130.9	23.7	-49.4	-615.0	-831.8	-1284.7	-1429.4	-1265.1	-1154.6	-1219.4	-1099.2	-776.3	-518.4	-268.0	270.4	784.0	784.0	758.0	607.8	325.8
08-09-2026	176.1	42.4	-6.9	-108.4	-88.3	56.7	134.5	-409.4	-864.7	-1108.4	-1336.3	-1310.0	-1246.2	-1217.0	-1000.6	-798.8	-583.6	-219.8	411.9	319.2	693.7	745.9	640.1	501.5
09-09-2026	396.3	352.1	193.4	-19.9	-203.5	-203.8	-118.0	-494.1	-738.8	-950.5	-1161.3	-1190.6	-1175.5	-1072.7	-834.5	-551.9	-500.9	-81.8	469.4	660.8	812.8	717.1	591.7	367.9
10-09-2026	274.7	163.9	138.0	70.7	7.3	44.7	26.7	-486.4	-775.2	-910.6	-1126.2	-1336.1	-1128.1	-1181.9	-1316.5	-965.0	-624.4	-278.9	330.8	279.1	427.3	703.2	542.5	287.3
11-09-2026	153.4	130.0	202.5	90.5	61.1	-75.7	-171.1	-693.5	-979.8	-1162.8	-1393.6	-1440.0	-1317.9	-1179.0	-906.1	-665.0	-598.7	-391.8	330.8	279.1	427.3	703.2	542.5	287.3
12-09-2026	217.1	188.4	25.4	-80.2	-79.2	-13.3	-54.0	-567.3	-1019.6	-1339.6	-1840.5	-1869.0	-1836.6	-1730.6	-1744.5	-1548.7	-1451.1	-1190.5	-827.8	-60.3	120.6	286.1	109.8	-127.7
13-09-2026	-146.9	-359.6	-463.6	-577.6	-601.6	-525.1	-421.8	-968.4	-1185.3	-1530.4	-1840.5	-1885.2	-1836.4	-2038.3	-1797.5	-1559.4	-1296.4	-870.4	-41.2	-58.7	88.6	120.8	-18.4	-228.1
14-09-2026	-121.6	-299.9	-305.0	-308.2	-263.2	-301.8	-592.7	-1113.2	-1440.2	-1821.4	-1998.7	-1924.7	-2038.7	-1953.4	-1490.3	-1408.8	-1151.0	-849.9	-65.6	19.8	122.8	143.4	125.5	-11.4
15-09-2026	-278.0	-161.7	-168.0	-274.0	-379.7	-450.0	-442.6	-1047.2	-1427.5	-1751.0	-1886.7	-1974.7	-1880.3	-1783.8	-1421.5	-11								

Date/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-10-2026	-111.7	-296.3	-251.1	-9.4	121.1	175.5	31.3	-485.5	-838.4	-1102.0	-1463.7	-1356.7	-1202.7	-1395.3	-1027.6	-841.6	-391.3	317.9	739.7	484.2	443.2	476.3	435.0	278.8
02-10-2026	102.5	140.4	-14.8	-167.4	-174.4	-168.1	-138.8	-574.4	-965.0	-1414.5	-1867.8	-2113.7	-2140.2	-2236.1	-1833.7	-1494.6	-812.2	-126.4	274.9	389.8	190.3	22.1	-253.2	-62.1
03-10-2026	-229.0	-362.1	-151.0	-455.6	-516.2	-506.3	-487.7	-997.7	-1261.7	-1622.8	-1752.7	-1743.5	-1692.5	-1587.0	-1011.4	-771.8	-328.0	228.5	682.6	649.5	670.8	561.1	261.8	45.8
04-10-2026	-58.3	-208.7	-185.3	-267.0	-291.1	-121.6	-88.5	-1061.3	-963.7	-1622.8	-1620.4	-1524.2	-1540.2	-1451.3	-1048.2	-689.4	-480.5	-2.3	428.7	115.1	9.8	34.2	-51.6	1.2
05-10-2026	-290.6	-353.3	-448.1	-373.2	-368.6	-352.4	-406.5	-1086.8	-1339.6	-1595.1	-1681.9	-1549.6	-1484.4	-1321.4	-1102.4	-660.0	-348.8	59.5	304.2	302.5	298.3	59.5	-287.5	-376.1
06-10-2026	-486.6	-370.5	-347.4	-440.9	-560.7	-454.7	-385.6	-774.3	-804.1	-1206.6	-1490.5	-1386.9	-1224.1	-1129.2	-882.8	-484.6	-238.1	208.8	686.9	597.5	705.5	803.9	738.7	501.2
07-10-2026	67.6	4.0	-103.7	-135.0	-180.6	-199.0	-327.7	-703.3	-1102.2	-1436.1	-1503.6	-1356.9	-1293.4	-1224.2	-823.2	-358.3	-131.1	238.8	545.1	616.8	776.5	953.3	960.9	647.1
08-10-2026	393.4	268.1	197.0	76.0	71.4	67.0	33.7	-331.9	-457.6	-742.4	-1073.6	-927.9	-922.2	-913.5	-909.2	-824.8	-450.1	125.6	653.3	609.5	778.3	1171.0	686.0	500.5
09-10-2026	419.2	386.3	444.4	345.8	160.7	126.9	183.5	-223.6	-507.2	-813.1	-1241.3	-1204.8	-1199.9	-1107.7	-794.3	-665.8	-540.1	181.5	508.4	520.1	752.9	772.6	356.8	242.9
10-10-2026	26.0	-53.5	-114.1	-65.5	-105.9	-30.5	0.2	-554.3	-888.9	-1142.3	-1478.7	-1569.3	-1506.7	-1484.9	-943.9	-878.2	-464.7	43.7	614.0	659.5	705.4	742.5	557.1	237.1
11-10-2026	-137.6	-319.9	-188.4	26.9	142.9	191.1	-630.0	-893.7	-979.7	-1232.5	-1439.5	-1422.1	-1387.3	-1246.2	-823.5	-482.5	24.4	533.5	732.0	635.9	730.9	910.0	771.3	593.1
12-10-2026	337.7	160.0	242.9	252.0	194.1	145.0	29.7	-515.6	-824.4	-1073.2	-1392.4	-1292.6	-1154.2	-1148.4	-792.0	-483.9	-191.6	181.7	536.1	640.2	611.3	679.8	555.8	378.5
13-10-2026	252.5	282.6	185.2	43.3	21.5	-18.8	57.2	-520.8	-1271.5	-1797.3	-2010.6	-2023.2	-1820.4	-1901.4	-1486.5	-1166.5	-650.2	-148.8	163.1	-81.4	-221.3	-237.7	-423.4	-660.4
14-10-2026	-702.2	-615.1	-463.9	-566.3	-649.0	-751.6	-748.5	-1180.5	-1622.3	-2019.6	-2289.7	-2330.5	-2295.3	-2244.0	-1991.5	-1643.9	-1307.8	-613.1	-214.2	-91.9	-91.1	-79.0	-158.7	-249.9
15-10-2026	-292.0	-450.0	-489.9	-368.7	-340.2	-297.3	-336.5	-873.8	-1540.0	-2018.1	-2327.4	-2129.5	-2469.6	-2333.2	-1851.7	-1419.3	-809.8	-97.3	431.4	257.7	301.8	323.6	360.4	127.6
16-10-2026	43.0	-162.4	-231.1	-223.4	-166.0	-99.1	-167.8	-658.1	-1106.8	-1654.5	-1873.1	-1795.8	-1819.9	-1845.0	-1339.1	-1049.3	-728.1	-154.1	319.9	424.3	458.4	508.0	430.9	246.2
17-10-2026	21.6	60.4	69.5	54.3	52.9	86.9	96.8	-596.2	-935.6	-1313.6	-1600.3	-1625.5	-1430.6	-1437.9	-1045.5	-655.9	-406.3	147.6	598.0	539.0	608.8	608.4	590.3	387.7
18-10-2026	205.1	96.8	75.1	22.4	-12.5	20.2	-69.1	-549.5	-1002.5	-1345.9	-1568.2	-1610.6	-1464.7	-1342.5	-992.9	-741.2	-267.5	341.1	654.2	779.4	603.3	540.2	434.2	364.6
19-10-2026	65.4	-52.8	-47.2	-197.9	-231.0	-287.0	-390.6	-919.7	-1286.2	-1702.4	-2016.8	-1870.0	-1800.8	-1647.1	-1132.0	-772.8	76.2	393.8	335.4	474.5	420.4	413.0	223.3	
20-10-2026	113.0	-35.0	-224.4	-345.2	-331.8	-301.6	-258.8	-754.5	-1082.5	-1490.5	-1934.5	-1745.6	-1817.4	-1768.0	-1538.9	-1144.7	-950.4	20.8	336.4	244.3	179.7	226.5	252.0	218.0
21-10-2026	138.2	-61.9	-146.7	-164.6	12.7	-2.8	-192.7	-730.1	-1185.2	-1583.9	-1945.1	-1713.1	-1700.2	-1711.2	-1278.1	-864.3	-689.5	60.8	436.1	361.0	400.6	433.5	420.8	238.8
22-10-2026	198.2	-61.2	-56.2	-174.2	-98.2	-43.3	-118.9	-669.4	-1211.5	-1495.3	-1936.0	-2034.9	-2022.1	-1851.6	-1618.6	-1153.8	-706.3	51.1	343.9	314.2	382.3	142.0	-36.1	-103.4
23-10-2026	-191.6	-313.1	-298.9	-288.3	-205.0	-214.2	-286.7	-742.5	-1232.7	-1611.0	-2015.8	-2153.3	-2197.9	-2117.7	-1789.7	-1266.8	-65.1	276.0	428.0	275.6	455.5	192.4	-64.4	-120.1
24-10-2026	-221.4	-332.3	-401.8	-282.0	-242.0	-146.2	-169.7	-770.8	-1421.8	-1829.7	-2282.0	-2240.8	-2153.4	-2152.0	-1572.0	-1325.3	-875.1	-20.7	392.0	500.6	487.1	386.9	251.3	116.5
25-10-2026	101.5	-4.0	-13.5	-40.9	-2.2	33.9	-114.5	-730.9	-1320.9	-1855.5	-2211.2	-2078.4	-2035.9	-1996.5	-1516.5	-1068.6	-704.4	-2.2	315.8	440.7	337.5	201.0	214.3	145.8
26-10-2026	72.2	62.1	47.1	1.8	70.8	103.0	-239.4	-902.0	-1388.9	-1763.7	-2153.0	-2047.0	-1880.9	-1877.9	-1565.1	-1188.9	-722.4	40.6	370.4	354.9	379.2	431.4	272.8	169.4
27-10-2026	186.7	38.8	-48.1	46.5	152.7	44.8	-93.9	-626.0	-1258.4	-1680.8	-2108.0	-2287.1	-2227.5	-2237.1	-1825.2	-1440.6	-882.7	33.7	260.6	152.9	124.2	-61.7	-226.0	-256.6
28-10-2026	-334.2	-402.7	-285.6	-182.1	-198.3	-199.1	-381.1	-1097.4	-1781.5	-2361.9	-2658.8	-3057.3	-3070.7	-3023.9	-2878.6	-2442.6	-1901.3	-1077.8	-861.1	-734.2	-647.3	-800.6	-831.2	-771.6
29-10-2026	-799.0	-766.1	-1065.5	-1303.8	-1289.8	-1252.5	-1305.2	-1731.5	-2152.3	-2649.7	-2942.6	-2966.0	-2951.6	-2806.3	-2316.3	-1920.4	-1307.5	298.5	-77.9	-109.3	-198.3	-228.2	-398.1	-422.1
30-10-2026	-480.9	-473.3	-488.4	-506.8	-485.9	-460.6	-509.7	-1033.0	-1638.1	-2114.0	-2326.7	-2314.5	-2221.3	-2145.3	-1845.8	-1379.7	-854.6	18.0	397.9	283.2	313.5	206.6	135.0	21.8
31-10-2026	-97.2	20.1	58.6	45.5	114.9	77.4	92.8	-472.0	-1150.4	-1632.2	-1953.9	-1968.8	-2044.7	-1814.8	-1437.8	-1143.4	-771.3	169.5	438.0	642.8	530.4	516.5	414.9	384.7
01-11-2026	291.5	301.9	221.0	156.8	106.5	124.4	148.3	-301.1	-766.5	-891.8	-1414.3	-1424.7	-1230.4	-1203.7	-734.4	-272.1	22.4	361.2	580.0	768.0	846.7	815.0	777.7	786.5
02-11-2026	616.6	446.4	341.6	259.6	263.3	260.4	152.2	-325.4	-770.7	-898.7	-1153.5	-1039.7	-1086.5	-1012.1	-678.6	-323.4	-92.9	345.5	633.0	648.9	744.7	884.2	790.6	639.0
03-11-2026	525.9	359.2	308.1	284.5	344.5	262.5	183.4	-407.6	-740.0	-965.1	-1391.2	-1237.2	-1181.0	-1261.3	-775.9	-378.8	-70.4	184.6	580.2	595.1	660.7	689.0	538.0	453.4
04-11-2026	288.7	176.7	288.7	331.9	308.9	230.1	110.7	-260.7	-720.7	-896.3	-1262.7	-1260.5	-1275.3	-1266.3	-902.3	-707.4	-267.8	184.5	426.7	549.2	528.8	554.5	451.3	362.9
05-11-2026	279.0	92.7	135.5	119.5	139.6	241.0	198.9	-347.8	-642.6	-1014.4	-1409.9	-1328.7	-1202.0	-1304.2	-909.1	-495.6	-259.1	188.8	333.1	442.3	543.9	505.2	549.2	377.8
06-11-2026	275.4	141.5	216.5	193.0	205.4	227.0	186.7	-355.8	-793.6	-899.7	-1246.7	-1185.8	-1067.9	-1051.0	-831.0	-483.8	-235.2	204.8	388.8	190.7	453.0	526.6	557.7	552.2
07-11-2026	262.9	169.8	167.5	164.8	179.6	172.0	131.3	-334.0	-745.3	-825.6	-1047.8	-1061.0	-1077.5	-1121.2	-806.6	-585.5	-391.1	-161.5	180.9	277.9	542.4	277.1	336.0	163.7
08-11-2026	27.5	28.0	15.7	-22.9	8.4	21.2	4.4	-453.7	-1109.9	-1281.5	-1653.3	-1673.8	-1673.8	-1484.9	-1409.1	-1003.4	-557.5	-313.7	36.6	281.7	389.6	356.5	304.4	212.8
09-11-2026	25.4	-1.5	-42.4	-20.5	57.7	80.0	83.2	-375.9	-724.2	-934.3	-1191.2	-1102.0	-1256.5	-1196.6	-906.4	-608.0	-181.0	166.7	451.6	569.6	645.1	666.7	594.3	486.3
10-11-2026	218.7	96.6	199.2	126.6	110.9	155.4	140.2	-473.0	-619.9	-866.8	-1320.0	-1115.7	-1060.5	-1031.1	-798.5	-339.9	-246.6	141.4	443.2	423.8	488.4	541.8	451.6	269.3
11-11-2026	178.1	114.8	2.7	17.8	116.1	218.2	132.7	-400.9	-727.4	-817.7	-1284.1	-1053.2	-1087.9	-1119.1	-887.7	-481.0	-354.2	122.4	202.8	506.1	533.9	550.9	519.6	304.3
12-11-2026	121.1	82.6	21.8	19.5	125.6	132.2	205.6	-370.9	-848.1	-932.4	-1201.8	-1272.1	-1243.2	-1377.1	-1035.7	-457.4	-235.0	264.7	425.3	432.2	558.1	530.4	525.0	394.9
13-11-2026	342.2	244.9	231.6	198.9	252.0	348.2	229.6	-294.1	-827.0	-1011.2	-1466.9	-1409.3	-1417.7	-1415.6	-968.0	-603.8	-286.8	181.7	438.7	502.3	433.8	398.3	372.7	290.7
14-11-2026	81.3	-20.3	1.5	30.8	76.7	103.7	116.2	-317.0	-864.1	-926.0	-1422.9	-1376.2	-1364.1	-1366.1	-1247.7	-691.7	-534.5	-18.9	471.0	208.2	185.7	350.7	281.5	215.8
15-11-2026	156.0	171.2	194.7	201.7	179.8	254.7	244.8	-119.8	-678.7	-926.0	-1348.3	-1427.2	-1501.9	-1305.5	-966.9	-425.2	-117.5	287.6	380.7	275.2	343.4	395.3	418.4	177.1
16-11-2026	159.7	148.2	-70																					

Date/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-12-2026	-496.2	-603.9	-612.8	-573.5	-449.0	-327.6	-329.3	-786.9	-1483.4	-2085.7	-2694.5	-3050.1	-3011.6	-2975.0	-2610.6	-2030.6	-1383.0	-354.6	-66.3	-165.0	-285.0	-363.5	-458.8	-548.9
02-12-2026	-561.8	-444.2	-490.8	-276.3	-179.9	-85.3	-115.4	-540.9	-1377.2	-1879.2	-2713.7	-2995.4	-2835.6	-2837.6	-2379.7	-1688.0	-972.5	45.1	116.8	222.0	147.8	51.2	-140.2	-215.3
03-12-2026	-347.7	-381.8	-277.1	-298.8	-256.6	-141.9	-45.6	-581.8	-1335.0	-1730.2	-2381.5	-2713.8	-2697.1	-2741.9	-2188.1	-1550.6	-930.8	-132.2	173.2	44.8	74.3	-15.6	-126.6	-289.1
04-12-2026	-358.6	-347.8	-357.0	-447.9	-471.4	-349.1	-208.3	-607.5	-1415.3	-1866.8	-2627.8	-2767.2	-2652.8	-2749.9	-2195.4	-1552.5	-945.4	-187.1	151.2	60.5	91.2	5.6	-209.0	-345.3
05-12-2026	-327.6	-337.2	-348.8	-324.9	-214.1	-77.0	-71.9	-499.5	-1313.7	-1834.9	-2396.6	-2374.7	-2278.0	-2343.8	-1795.0	-1123.5	-479.5	-26.1	338.7	197.3	134.3	52.6	-98.2	-169.2
06-12-2026	-249.4	-317.0	-230.4	-228.6	-197.8	5.2	66.2	-56.7	-1296.6	-1867.3	-2483.3	-2686.8	-2616.9	-2534.7	-1988.9	-1390.6	-765.5	0.4	356.2	291.9	277.5	272.6	102.4	-37.5
07-12-2026	-45.6	-98.9	-83.4	-137.9	7.9	131.1	234.7	-241.5	-1105.5	-1628.1	-2283.4	-2471.9	-2270.5	-2327.0	-1994.4	-1414.3	-711.7	15.0	170.7	96.4	39.1	42.1	-94.9	-118.7
08-12-2026	-219.3	-214.1	-216.7	-195.0	-192.2	-214.4	-83.1	-691.8	-1320.7	-1798.5	-2209.0	-2278.8	-2290.0	-2206.0	-1851.4	-1243.1	-595.8	-84.6	320.9	193.7	159.7	42.8	-55.4	-60.8
09-12-2026	-163.7	-171.0	-170.7	-278.4	-234.5	-134.5	-120.5	-541.5	-1340.6	-1636.2	-2220.1	-2204.6	-2197.8	-2234.9	-1807.6	-1253.6	-740.5	15.1	366.9	351.6	209.5	470.7	273.7	55.6
10-12-2026	-178.9	-254.6	-214.6	-184.9	-77.1	54.6	137.7	-288.4	-1094.3	-1476.3	-2081.2	-2222.5	-2113.8	-2091.4	-1653.3	-969.0	-447.0	54.2	155.6	403.3	134.1	61.6	-8.3	-189.1
11-12-2026	-204.3	-173.2	-148.4	-103.8	-67.8	64.8	294.0	-146.2	-885.3	-1229.5	-1830.6	-2045.7	-2098.9	-2176.5	-1625.0	-1180.4	-668.3	-170.5	106.8	213.0	184.3	45.9	-87.1	-230.4
12-12-2026	-338.8	-451.4	-422.4	-268.8	-76.4	112.4	192.5	-271.8	-1127.5	-1991.2	-2071.7	-2075.8	-2186.7	-2247.9	-1688.1	-1045.1	-400.1	8.9	218.4	227.9	170.3	132.0	-25.5	-263.5
13-12-2026	-255.8	-238.3	-183.1	-166.8	-111.7	110.9	278.2	-204.1	-983.9	-1462.0	-1990.7	-2247.9	-2233.4	-2182.4	-1686.1	-1038.4	-543.6	78.0	351.6	176.7	70.1	-115.2	-238.5	-327.6
14-12-2026	-271.7	-329.6	-303.6	-317.8	-228.4	9.3	92.0	-471.5	-1110.6	-1388.9	-1934.0	-2074.9	-2018.0	-2127.1	-1738.8	-1291.2	-816.9	-273.4	-55.8	-58.5	-170.6	-372.3	-48.6	-236.1
15-12-2026	-678.3	-664.4	-641.9	-518.2	-406.9	-289.6	-115.4	-541.8	-1218.3	-1637.0	-2120.5	-2335.7	-2304.7	-2386.6	-1961.0	-1338.9	-818.3	-272.0	132.9	42.0	-66.1	-253.6	-391.0	-521.4
16-12-2026	-500.0	-503.2	-566.4	-490.2	-404.2	-286.5	-67.9	-466.2	-1191.5	-1586.9	-2195.8	-2414.4	-2358.9	-2485.9	-2079.7	-1331.6	-756.2	-264.4	95.5	116.9	-39.4	-152.8	-344.8	-517.9
17-12-2026	-483.2	-536.6	-505.0	-488.9	-368.9	-240.5	-62.4	-357.4	-1090.4	-1435.5	-1993.9	-2171.5	-2180.6	-2278.9	-1674.9	-1150.5	-594.6	-48.4	53.8	23.9	-33.2	-240.6	-497.6	-685.7
18-12-2026	-702.8	-664.3	-577.7	-488.0	-343.8	-221.2	-71.8	-426.9	-1177.2	-1527.6	-2248.7	-2419.9	-2417.5	-2608.4	-1952.4	-1407.0	-856.9	-230.8	-16.1	-140.0	-170.2	-345.3	-409.6	-504.5
19-12-2026	-464.7	-599.4	-554.1	-489.7	-386.7	-138.4	13.3	-290.8	-1156.6	-1572.5	-2236.0	-2646.2	-2656.8	-2597.9	-2141.6	-1480.4	-856.5	-207.2	-10.1	-2.0	-176.8	-272.4	-517.6	-508.0
20-12-2026	-478.1	-437.1	-347.6	-371.7	-246.4	-81.3	146.7	-264.8	-1387.0	-1945.0	-2542.5	-2647.5	-2686.4	-2754.3	-2367.7	-1690.2	-1070.0	-304.8	-12.8	97.7	-46.6	-250.0	-382.8	-215.7
21-12-2026	-397.2	-436.0	-395.1	-338.0	-263.5	-163.1	24.0	-266.1	-1136.8	-1581.9	-2288.2	-2650.0	-2587.3	-2552.3	-2026.8	-1524.3	-1035.4	-262.8	59.4	25.1	-37.6	-84.2	-195.1	-346.1
22-12-2026	-560.3	-520.9	-551.9	-521.5	-395.6	-230.0	75.2	-254.9	-1127.8	-1580.9	-2158.5	-2244.3	-2310.0	-1839.4	-1402.7	-1308.4	-824.2	-234.1	-48.9	-72.8	-241.9	-331.3	-480.1	-667.3
23-12-2026	-588.9	-655.6	-641.1	-677.0	-603.1	-359.9	-148.9	-491.7	-1439.4	-1889.7	-2435.0	-2568.3	-2554.9	-2687.0	-2278.8	-1637.4	-909.5	-122.3	-56.7	-18.9	-77.5	-347.7	-532.3	-683.3
24-12-2026	-714.4	-686.1	-744.4	-814.6	-735.8	-588.9	-348.4	-529.1	-1152.2	-1752.5	-2412.9	-2618.4	-2672.0	-2672.0	-2278.8	-1613.0	-1054.7	-446.0	-128.1	-182.3	-268.2	-360.4	-526.1	-629.6
25-12-2026	-619.3	-593.5	-521.8	-523.7	-378.2	-205.8	31.9	-256.6	-1180.2	-1660.3	-2472.9	-2581.9	-2577.4	-2638.9	-2264.9	-1714.3	-1008.7	-274.5	-11.9	111.9	110.9	29.3	-139.3	-301.2
26-12-2026	-289.3	-407.5	-442.9	-414.7	-387.9	-108.5	100.9	-208.2	-1033.9	-1666.6	-2268.2	-2656.2	-2590.9	-2633.5	-2064.2	-1339.1	-696.7	-100.2	332.9	307.2	122.9	-95.0	-255.4	-463.6
27-12-2026	-493.7	-484.7	-438.0	-374.6	-344.5	-140.5	-311.5	-800.8	-1436.2	-2048.2	-2218.2	-2216.9	-2219.0	-2247.2	-1826.6	-1308.4	-774.5	-484.6	10.6	89.5	-282.2	-518.9	-677.5	-721.2
28-12-2026	-418.6	-481.8	-446.8	-411.3	-365.9	-200.9	-203.0	-595.8	-1113.7	-1573.0	-2048.2	-2218.2	-2216.9	-2247.2	-1826.6	-1308.4	-774.5	-484.6	10.6	89.5	-282.2	-518.9	-677.5	-721.2
29-12-2026	-493.7	-484.7	-438.0	-374.6	-344.5	-140.5	-311.5	-800.8	-1436.2	-2048.2	-2218.2	-2216.9	-2219.0	-2247.2	-1826.6	-1308.4	-774.5	-484.6	10.6	89.5	-282.2	-518.9	-677.5	-721.2
30-12-2026	-710.5	-751.1	-555.2	-602.0	-505.5	-320.7	-94.7	-483.0	-1221.4	-1641.7	-2158.7	-2177.1	-2102.6	-2337.8	-1897.2	-1432.4	-869.0	-544.4	-42.4	62.9	15.3	-331.5	-413.8	-502.8
31-12-2026	-583.5	-641.0	-574.8	-432.2	-438.2	-198.0	55.7	-366.1	-1108.9	-1637.8	-2151.7	-2437.5	-2269.1	-2312.6	-1886.8	-1353.7	-730.8	-251.6	166.1	182.6	-43.6	-164.5	-291.4	-602.1
01-01-2027	-471.6	-388.8	-405.7	-318.9	-217.2	-88.2	-11.1	-190.9	-751.5	-1337.4	-1797.7	-1932.7	-1835.3	-2080.6	-1819.0	-1467.0	-957.1	-253.5	118.8	148.8	-59.6	-191.8	-405.0	-479.4
02-01-2027	-403.9	-385.5	-351.1	-139.8	-151.6	-28.9	192.4	-12.8	-734.8	-982.5	-1686.0	-1877.8	-1854.5	-2018.4	-1655.4	-1260.0	-787.1	-230.3	322.3	411.8	319.4	167.9	-239.1	-245.4
03-01-2027	-281.3	-262.2	-316.4	-395.6	-269.0	-74.7	217.6	-103.8	-862.3	-1204.2	-1874.7	-2151.2	-2161.9	-2264.5	-1865.4	-1358.9	-792.2	-364.0	134.1	235.0	272.9	-5.4	-286.3	-398.3
04-01-2027	-364.6	-457.0	-463.8	-563.2	-372.3	-32.7	746.6	-91.4	-845.1	-1167.9	-1730.2	-1889.1	-1811.8	-1966.0	-1627.0	-1212.0	-650.8	-131.7	285.4	162.3	75.8	-188.7	-292.8	-379.9
05-01-2027	-358.9	-384.9	-429.3	-348.0	-298.4	-102.1	44.0	-244.8	-791.7	-1186.7	-1767.6	-1928.0	-1818.6	-1986.3	-1715.1	-1204.0	-787.4	-137.9	277.7	266.8	109.6	21.7	-12.5	-192.4
06-01-2027	-258.2	-312.6	-305.2	-266.0	-123.1	24.4	307.0	169.7	-692.8	-990.6	-1616.0	-1837.1	-1780.2	-1923.3	-1562.7	-1131.3	-639.8	-125.9	420.8	373.8	229.2	-18.0	-138.4	-403.1
07-01-2027	-365.8	-385.3	-291.9	-230.5	-224.9	34.0	319.1	96.1	-560.3	-986.5	-1736.7	-1982.5	-1956.1	-2008.5	-1639.9	-1114.7	-628.8	-73.5	380.8	387.4	384.4	221.5	-11.0	-258.5
08-01-2027	-150.3	-256.9	-362.7	-366.7	-248.0	18.4	302.6	37.5	-472.8	-841.1	-1497.6	-1655.6	-1692.1	-1910.2	-1456.2	-1048.2	-530.5	-167.7	327.4	294.1	202.4	140.4	-43.2	-250.4
09-01-2027	-249.8	-399.2	-326.5	-337.9	-430.8	-86.5	251.6	63.9	-632.8	-768.7	-1443.9	-1791.8	-1848.1	-1907.8	-1480.8	-1024.7	-515.1	-9.4	434.8	385.5	233.0	92.7	-102.1	-273.3
10-01-2027	-189.6	-230.5	-216.8	-136.2	-98.6	164.6	214.1	-30.1	-592.3	-1150.9	-1773.1	-2019.2	-1876.2	-2091.0	-1593.6	-997.0	-502.6	53.2	521.3	416.5	451.8	307.7	88.3	-139.1
11-01-2027	-223.8	-189.8	-224.7	-210.0	-163.9	-26.5	185.7	-15.6	-563.6	-890.4	-1474.4	-1689.4	-1696.0	-1748.0	-1557.0	-1071.2	-532.2	-152.5	461.9	419.0	337.2	290.0	130.0	-76.4
12-01-2027	-189.2	-142.1	-146.9	-101.7	-53.5	148.8	233.1	-37.0	-545.6	-949.4	-1591.1	-1989.5	-1902.0	-1997.0	-1809.6	-1231.1	-612.8	-216.8	300.6	325.4	226.9	84.1	3.6	-270.6
13-01-2027	-430.5	-344.8	-265.3	-278.4	3.8	300.1	299.5	78.6	-554.9	-1029.6	-1657.3	-2042.7	-2004.5	-2252.5	-1967.7	-1378.3	-894.0	-307.7	46.8	22.2	-134.3	-363.6	-453.6	-650.8
14-01-2027	-539.0	-513.2	-422.4	-378.0	-243.9	36.5	47.7	-311.5	-668.7	-1237.1	-1928.3	-2331.6	-2170.6	-2283.6	-2061.7	-1679.0	-1199.4	-644.6	-160.1	-314.7	-266.4	-353.3	-495.8	-650.8
15-01-2027	-666.0	-607.7	-549.9	-516.3	-341.3	-212.8	-50.3	-316.9	-758.2	-1319.4	-1953.4	-2143.6	-2244.5	-2370.5	-2162.2	-1717.6	-1261.1	-915.5	-245.4	-308.5	-211.2	-250.5	-396.2	-5

Date/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01-02-2027	-57.9	-120.5	-28.7	50.1	172.7	488.0	542.9	183.2	-414.7	-880.0	-1526.8	-1662.1	-1574.1	-1842.6	-1587.7	-1075.2	-579.8	-323.9	521.5	478.8	434.8	362.6	55.7	-40.5	
02-02-2027	-169.4	-207.2	-132.2	-135.0	82.9	229.4	235.1	-15.9	-410.6	-959.3	-1594.2	-1689.2	-1633.6	-1796.8	-1566.5	-923.9	-581.4	-369.4	647.2	438.0	418.9	452.7	52.8	-102.2	
03-02-2027	-139.4	-127.8	-38.1	-9.6	93.7	346.9	499.9	109.6	-538.9	-896.7	-1549.0	-1614.0	-1591.2	-1706.8	-1382.7	-827.2	-463.8	-159.0	523.4	405.3	351.0	179.2	170.1	99.9	
04-02-2027	37.3	75.2	76.0	28.3	280.9	501.4	586.8	166.6	-428.2	-671.5	-1341.1	-1495.5	-1540.6	-1643.2	-1269.9	-721.6	-471.4	-118.8	505.0	428.0	397.9	291.2	49.8	-8.7	
05-02-2027	24.4	-56.6	-101.8	89.6	231.9	334.8	497.3	101.5	-321.9	-708.9	-1238.5	-1206.8	-1240.6	-1509.2	-1219.3	-670.3	-192.4	68.5	796.2	731.4	609.4	573.3	279.3	34.9	
06-02-2027	81.5	-53.9	-92.4	22.4	209.0	405.4	474.2	374.9	-259.9	-471.7	-1136.1	-1263.3	-1218.9	-1440.9	-1186.0	-602.0	-292.1	30.0	744.1	799.4	730.5	598.1	446.4	292.3	
07-02-2027	225.6	142.5	176.6	236.4	477.5	681.1	800.7	386.9	-177.1	-886.1	-1572.1	-1690.6	-1694.4	-1702.6	-1209.9	-751.3	-339.0	153.5	814.8	807.8	730.0	858.9	721.7	431.0	
08-02-2027	367.4	319.5	347.0	424.9	637.5	762.4	832.5	437.9	-123.9	-789.3	-1293.7	-1512.2	-1411.5	-1464.6	-1322.5	-787.3	-318.1	70.8	664.9	612.8	693.5	547.6	531.6	392.9	
09-02-2027	274.6	254.7	274.6	314.4	468.9	482.7	559.5	140.3	315.6	-685.6	-1327.8	-1526.2	-1389.1	-1602.4	-1235.0	-727.3	-280.6	100.8	821.0	500.2	630.0	591.7	599.7	428.6	
10-02-2027	210.5	211.0	312.0	406.0	578.4	697.3	748.7	330.8	-347.2	-690.6	-1279.0	-1421.9	-1444.3	-1545.2	-1160.6	-469.4	-97.1	248.5	875.2	732.3	770.8	711.7	592.3	458.5	
11-02-2027	181.4	219.3	209.2	295.1	479.1	630.6	804.0	291.0	-387.1	-700.2	-1342.1	-1492.1	-1492.1	-1641.4	-1347.2	-724.0	-288.6	47.8	528.8	454.7	453.8	337.2	313.3	198.6	
12-02-2027	35.7	46.4	69.6	137.4	325.7	569.1	659.0	248.7	-328.4	-816.8	-1362.6	-1497.9	-1453.2	-1664.5	-1355.0	-786.0	-337.3	267.4	869.2	659.0	562.4	582.0	510.4	409.3	
13-02-2027	295.4	208.0	184.6	237.2	543.1	612.6	717.0	305.2	-197.4	-796.4	-1383.6	-1470.3	-1450.7	-1623.1	-1323.9	-661.7	-271.2	287.3	744.1	799.4	730.5	598.1	446.4	292.3	
14-02-2027	377.3	296.7	345.3	466.7	708.4	782.3	948.8	536.3	-136.1	-869.0	-1715.1	-1741.8	-1714.4	-1740.0	-1279.2	-825.2	-187.2	245.1	781.2	717.4	699.4	579.4	426.2	316.4	
15-02-2027	193.9	78.9	143.5	225.7	477.2	665.7	791.3	364.5	-238.6	-680.7	-1164.5	-1362.5	-1601.1	-1288.3	-1187.3	-617.6	-132.9	211.4	1021.2	709.4	625.2	520.3	411.3	359.6	
16-02-2027	154.0	130.5	83.4	118.1	426.0	517.2	585.8	179.8	-259.7	-739.9	-1543.9	-1548.0	-1576.1	-1601.2	-1187.3	-653.4	-264.0	-25.5	829.9	501.5	220.8	206.6	265.9	224.0	
17-02-2027	96.5	85.1	161.3	303.6	472.7	636.2	752.3	335.0	-149.6	-687.3	-1296.9	-1443.3	-1412.5	-1589.1	-1191.0	-710.9	-278.8	74.9	717.9	389.2	424.8	342.4	282.4	212.4	
18-02-2027	-19.4	-86.1	-21.7	238.7	526.2	532.0	544.0	135.6	-449.0	-911.7	-1579.0	-1662.0	-1487.2	-1631.0	-1244.4	-705.0	-315.6	61.6	665.0	413.5	339.8	521.4	389.7	339.4	
19-02-2027	222.9	205.6	247.3	186.3	434.4	340.8	660.1	285.5	-157.5	-699.1	-1245.0	-1363.7	-1382.3	-1469.3	-1100.5	-400.8	-119.1	236.2	1055.9	826.4	833.6	833.9	829.6	826.0	
20-02-2027	587.6	461.5	483.0	494.3	634.3	667.0	835.9	323.5	-184.7	-768.1	-1408.0	-1446.4	-1502.3	-1691.6	-1227.1	-669.8	-154.4	89.9	707.4	566.1	330.6	359.6	435.5	170.7	
21-02-2027	184.3	178.0	133.2	277.5	425.4	672.6	739.3	253.7	-313.7	-1098.6	-1756.9	-1990.4	-2008.4	-1987.7	-1514.3	-847.5	-403.5	-134.5	758.7	612.0	744.2	846.3	871.5	648.1	
22-02-2027	358.5	411.7	340.5	445.8	580.3	717.9	773.9	317.3	55.2	-619.4	-1304.9	-1448.7	-1468.5	-1664.0	-1257.7	-708.8	-298.5	65.1	860.9	612.5	631.6	603.1	569.3	554.8	
23-02-2027	558.1	422.2	446.7	543.7	780.3	794.7	781.3	231.6	32.7	-602.7	-1235.5	-1303.7	-1219.3	-1398.0	-1231.4	-681.1	-212.2	90.9	945.1	742.9	735.6	765.4	805.4	718.7	
24-02-2027	568.1	463.0	439.7	514.6	653.2	812.2	982.2	354.6	-136.9	-627.5	-1174.2	-1210.6	-1284.1	-1542.4	-1241.4	-628.6	-165.9	222.8	1078.2	789.8	826.4	740.2	716.5	595.5	
25-02-2027	384.3	416.7	424.9	582.5	756.1	861.2	967.3	528.4	14.6	-559.1	-1118.9	-1217.4	-1276.3	-1408.9	-1101.0	-479.8	-28.2	328.4	1153.1	905.1	886.9	996.6	947.6	792.4	
26-02-2027	444.8	425.7	496.9	645.5	849.0	970.6	899.6	424.6	75.0	-467.9	-1102.0	-1295.3	-1345.6	-1508.1	-1191.1	-600.3	-209.9	200.6	1023.9	722.4	641.9	702.4	732.0	596.4	
27-02-2027	311.2	370.3	456.6	477.4	610.8	734.1	778.5	277.6	-31.5	-488.6	-1095.1	-1134.1	-1117.5	-1347.1	-1059.6	-620.7	-217.2	195.5	988.8	716.5	657.5	738.6	717.7	529.2	
28-02-2027	391.9	371.5	396.5	507.5	773.7	945.5	928.9	461.8	-126.3	-724.6	-1490.0	-1811.4	-1856.0	-1814.0	-1336.2	-814.6	-334.9	78.9	1033.8	631.4	714.1	757.1	688.2	623.3	
01-03-2027	232.8	77.5	170.8	228.6	449.3	544.4	750.1	77.9	-169.7	-734.7	-1416.6	-1502.8	-1471.3	-1643.4	-1155.4	-621.2	-197.7	-48.2	751.2	613.5	527.5	473.6	460.2	389.8	
02-03-2027	236.1	240.3	226.3	278.8	353.5	440.5	434.9	-146.7	-263.6	-773.8	-1390.9	-1496.9	-1491.5	-1593.0	-1223.5	-705.0	-374.6	-85.8	574.3	459.6	602.5	522.8	556.9	511.4	
03-03-2027	304.4	299.6	223.9	296.1	503.0	609.5	588.7	99.5	-243.4	-602.7	-1235.0	-1527.2	-1576.1	-1585.1	-1254.4	-765.5	-456.0	-73.0	624.1	514.7	468.8	576.0	667.8	584.0	
04-03-2027	520.5	414.4	379.5	487.3	641.4	762.5	831.3	250.4	-47.5	-624.7	-1336.2	-1409.4	-1610.7	-1701.8	-1365.3	-738.7	-465.6	-55.0	695.4	478.4	661.0	714.6	753.3	543.3	
05-03-2027	383.0	323.4	374.9	491.3	671.8	837.6	764.2	276.8	-99.5	-481.3	-1096.7	-1302.6	-1251.3	-1285.8	-836.1	-191.3	63.3	381.2	1018.6	814.9	782.9	865.6	800.4	719.4	
06-03-2027	488.6	387.3	374.3	405.8	516.4	584.3	546.9	83.6	-250.1	-654.9	-1264.8	-1432.1	-1555.9	-1591.3	-1183.6	-431.8	-163.7	115.7	887.0	601.9	567.7	645.9	563.4	490.5	
07-03-2027	158.2	55.4	161.1	203.9	346.4	449.1	499.7	-14.3	-326.7	-755.8	-1375.5	-1529.5	-1436.9	-1549.8	-1194.7	-492.9	-113.8	-1.4	800.4	519.4	441.5	316.8	466.7	300.3	
08-03-2027	89.2	218.2	134.5	196.1	335.2	364.1	374.0	-62.7	-209.4	-748.6	-1441.4	-1743.1	-1685.7	-1831.1	-1407.9	-762.4	-389.1	134.6	489.4	113.3	132.0	344.7	475.2	430.4	
09-03-2027	386.0	262.6	239.1	275.8	409.2	410.9	442.9	-43.9	-429.8	-1007.7	-1551.6	-1827.1	-1933.5	-1920.4	-1362.2	-857.0	-418.4	-29.1	697.8	392.1	495.3	440.2	366.9	302.4	
10-03-2027	144.7	243.8	227.3	352.0	493.2	677.9	620.2	115.7	-263.1	-770.2	-1372.0	-1503.6	-1485.0	-1483.4	-1075.9	-591.7	-231.8	34.2	763.0	531.3	565.9	437.5	436.6	260.5	
11-03-2027	144.6	219.3	109.0	193.6	302.1	453.6	476.7	14.3	-348.6	-778.7	-1172.7	-1464.9	-1302.5	-1368.5	-1156.4	-525.5	-58.6	-71.0	782.5	467.5	300.1	271.2	311.4	186.5	
12-03-2027	-48.2	19.9	141.4	287.9	457.3	571.9	563.6	9.2	-232.9	-749.0	-1412.5	-1613.3	-1669.1	-1577.0	-1202.5	-631.9	-190.3	-61.8	656.7	264.8	149.6	224.6	213.8	359.8	
13-03-2027	481.0	385.2	429.4	443.3	600.3	812.8	682.8	184.8	-213.4	-656.3	-1187.3	-1258.4	-1183.6	-1176.5	-747.3	-211.0	7.3	133.9	740.5	612.1	520.9	724.1	714.0	763.3	
14-03-2027	436.0	358.0	394.9	405.6	581.8	696.6	708.9	209.7	-159.3	-837.7	-1299.5	-1367.0	-1378.7	-1209.5	-765.0	-255.7	22.9	107.6	853.4	626.4	697.6	697.6	851.8	625.9	439.5
15-03-2027	293.5	205.9	322.1	462.4	584.3	615.6	661.4	94.7	-73.0	-712.8	-1099.5	-1082.4	-1156.9	-1293.7	-857.8	-227.6	75.3	86.8	808.1	601.4	657.1	561.6	612.3	547.9	
16-03-2027	301.7	275.5	310.0	394.2	540.0	565.7	568.5	8.9	-275.1	-772.7	-1245.2	-1370.9	-1408.2	-1448.5	-1075.9	-384.9	-87.0	98.4	759.0	476.2	472.2	566.3	626.0	729.7	
17-03-2027	444.5	332.0	351.1	399.8	552.5	715.9	711.2	113.8	-76.5	-623.9	-1124.7	-1226.8	-1264.2	-1346.6	-865.6	-397.3	-53.6	128.5	85.3	555.9	555.5	782.5	891.9	830.4	
18-03-2027	640.2	358.7	402.3	462.8	576.3	737.7	641.0	251.4	-71.7	-650.3	-1131.9	-1222.4	-1228.1	-1273.5	-884.7	-323.2	-135.2	-106.7	642.5	500.7	695.2	864.8	1011.5	784.5	
19-03-2027	446.1	383.3</																							



Southern Power AP

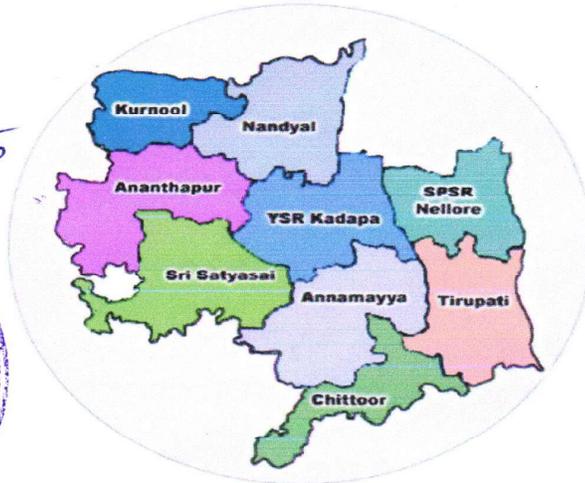
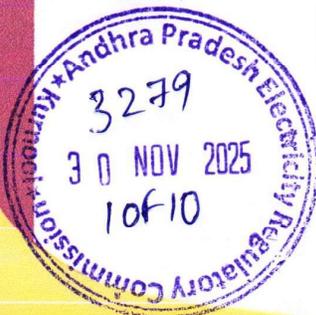
# SOUTHERN POWER DISTRIBUTION COMPANY OF A.P LIMITED

19-13-65/A, Vidyut Nilayam, Srinivasapuram, Tirupati (www.apspdcl.in)



## Aggregate Revenue Requirement and Tariff Proposal for the Retail Supply Business for FY 2026-27

502  
30/11/2025



30<sup>th</sup> November 2025

**SOUTHERN POWER DISTRIBUTION COMPANY  
OF TELANGANA LIMITED**

(Distribution & Retail Supply Licensee)



Filing of Revised ARR & Revised Proposed Wheeling Tariffs

for

Distribution Business

for

FY 2026-27

29<sup>th</sup> November 2025

**GFA Approach**

**Assumptions:**

a) Initial Capital Cost = Rs. 100 Cr., (b) Useful Life = 25 Years (c) D:E::70:30 (d) Cost of Debt = 8% (e) RoE = 16%

**Capital Expenditure**

Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
Opening GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100
Addition	Rs Cr	0	0	0	0	0	0	0	0	0	0
Decapitalisation	Rs Cr	0	0	0	0	0	0	0	0	0	0
Closing GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100

**Depreciation**

Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
Opening Accumulated	Rs Cr	0	5.25	10.19	14.85	19.23	23.36	27.25	30.91	34.36	37.60
Balance Dep.	Rs Cr	90.00	84.75	79.81	75.15	70.77	66.64	62.75	59.09	55.64	52.40
Depreciation Rate	%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%
Balance useful life	Years	25	24	23	22	21	20	19	18	17	16
Current Year Depreciation	Rs Cr	5.25	4.94	4.66	4.38	4.13	3.89	3.66	3.45	3.25	3.06
Closing Accumulated	Rs Cr	5.25	10.19	14.85	19.23	23.36	27.25	30.91	34.36	37.60	40.66
Average Accumulated	Rs Cr	2.63	7.72	12.52	17.04	21.30	25.30	29.08	32.63	35.98	39.13
Asset Net of Depreciation	Rs Cr	94.75	89.81	85.15	80.77	76.64	72.75	69.09	65.64	62.40	59.34

**Interest on Loan**

Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
Opening Loan	Rs Cr	70.00	64.75	59.81	55.15	50.77	46.64	42.75	39.09	35.64	32.40
Repayment during the year	Rs Cr	5.25	4.94	4.66	4.38	4.13	3.89	3.66	3.45	3.25	3.06
Closing Loan	Rs Cr	64.75	59.81	55.15	50.77	46.64	42.75	39.09	35.64	32.40	29.34
Average Loan	Rs Cr	67.38	62.28	57.48	52.96	48.70	44.70	40.92	37.37	34.02	30.87

**Return on Equity**

Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
Gross Fixed Asset	Rs Cr	100.00	89.81	85.15	80.77	76.64	72.75	69.09	65.64	62.40	59.34
Average Equity	Rs Cr	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Average Capex loan	Rs Cr	70.00	62.86	59.61	56.54	53.65	50.93	48.36	45.95	43.68	41.54
Cost of Debt, Rd	%	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Rate of Return on Equity, Re	%	16.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
Return on Equity	Rs Cr	4.80	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
Interest on Loan	Rs Cr	5.39	4.98	4.60	4.24	3.90	3.58	3.27	2.99	2.72	2.47
Return on Working Capital	Rs Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Annual Fixed Cost**

Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
Return on Equity	Rs Cr	4.80	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
Interest on Loan	Rs Cr	5.39	4.98	4.60	4.24	3.90	3.58	3.27	2.99	2.72	2.47
Depreciation	Rs Cr	5.25	4.94	4.66	4.38	4.13	3.89	3.66	3.45	3.25	3.06
<b>Annual Fixed Cost</b>	<b>Rs Cr</b>	<b>15.44</b>	<b>14.13</b>	<b>13.45</b>	<b>12.82</b>	<b>12.22</b>	<b>11.66</b>	<b>11.13</b>	<b>10.64</b>	<b>10.17</b>	<b>9.73</b>



## NFA APPROACH

<b>Capital Expenditure</b>												
S.No.	Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
A	Opening GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100
B	Additional Capitalisation	Rs Cr	0	0	0	0	0	0	0	0	0	0
C	Decapitalisation	Rs Cr	0	0	0	0	0	0	0	0	0	0
D	Closing GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100
E	Average GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100

<b>Depreciation</b>												
S.No.	Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
B	Opening Accumulated	Rs Cr	0	5.25	10.19	14.85	19.23	23.36	27.25	30.91	34.36	37.60
C	Balance Dep.	Rs Cr	90.00	84.75	79.81	75.15	70.77	66.64	62.75	59.09	55.64	52.40
D	Depreciation Rate	%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%
E	Balance useful life	Years	25	24	23	22	21	20	19	18	17	16
F	Current Year Depreciation	Rs Cr	5.25	4.94	4.66	4.38	4.13	3.89	3.66	3.45	3.25	3.06
G	Closing Accumulated	Rs Cr	5.25	10.19	14.85	19.23	23.36	27.25	30.91	34.36	37.60	40.66
H	Average Accumulated	Rs Cr	2.63	7.72	12.52	17.04	21.30	25.30	29.08	32.63	35.98	39.13
I	Asset Net of Depreciation	Rs Cr	94.75	89.81	85.15	80.77	76.64	72.75	69.09	65.64	62.40	59.34

<b>Interest on Loan</b>												
S.No.	Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
A	Opening Loan	Rs Cr	70.00	64.75	59.81	55.15	50.77	46.64	42.75	39.09	35.64	32.40
B	Repayment during the year	Rs Cr	5.25	4.94	4.66	4.38	4.13	3.89	3.66	3.45	3.25	3.06
C	Closing Loan	Rs Cr	64.75	59.81	55.15	50.77	46.64	42.75	39.09	35.64	32.40	29.34
D	Average Loan	Rs Cr	67.38	62.28	57.48	52.96	48.70	44.70	40.92	37.37	34.02	30.87

<b>Return on Equity</b>												
S.No.	Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
A	Asset Net of Depreciation	Rs Cr	100.00	89.81	85.15	80.77	76.64	72.75	69.09	65.64	62.40	59.34
B	Average Equity	Rs Cr	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
C	Average Capex loan	Rs Cr	70.00	62.86	59.61	56.54	53.65	50.93	48.36	45.95	43.68	41.54
G	Cost of Debt, Rd	%	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
H	Rate of Return on Equity, Re	%	16.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
J	Return on Equity	Rs Cr	4.80	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
K	Interest on Loan	Rs Cr	5.39	4.98	4.60	4.24	3.90	3.58	3.27	2.99	2.72	2.47

<b>Annual Fixed Cost, RoE on NFA Basis</b>												
S.No.	Particulars	UoM	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
A	Return on Equity	Rs Cr	4.80	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
B	Interest on Loan	Rs Cr	5.39	4.98	4.60	4.24	3.90	3.58	3.27	2.99	2.72	2.47
D	Depreciation	Rs Cr	5.25	4.94	4.66	4.38	4.13	3.89	3.66	3.45	3.25	3.06
F	Annual Fixed Cost	Rs Cr	15.44	14.13	13.45	12.82	12.22	11.66	11.13	10.64	10.17	9.73

<b>Capital Expenditure</b>																	
S.No.	Particulars	UoM	11th Year	12th Year	13th Year	14th Year	15th Year	16th Year	17th Year	18th Year	19th Year	20th Year	21st Year	22nd Year	23rd Year	24th Year	25th Year
A	Opening GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
B	Additional Capitalisation	Rs Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	Decapitalisation	Rs Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	Closing GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	Average GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

<b>Depreciation</b>																	
S.No.	Particulars	UoM	11th Year	12th Year	13th Year	14th Year	15th Year	16th Year	17th Year	18th Year	19th Year	20th Year	21st Year	22nd Year	23rd Year	24th Year	25th Year
B	Opening Accumulated	Rs Cr	40.66	43.54	46.25	49.61	52.98	56.34	59.71	63.08	66.44	69.81	73.17	76.54	79.90	83.27	86.63
C	Balance Dep.	Rs Cr	49.34	46.46	43.75	40.39	37.02	33.66	30.29	26.92	23.56	20.19	16.83	13.46	10.10	6.73	3.37
D	Depreciation Rate	%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%
E	Balance useful life	Years	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
F	Current Year Depreciation	Rs Cr	2.88	2.71	2.54	2.37	2.20	2.03	1.86	1.69	1.52	1.35	1.18	1.01	0.84	0.67	0.50
G	Closing Accumulated	Rs Cr	43.54	46.25	49.61	52.98	56.34	59.71	63.08	66.44	69.81	73.17	76.54	79.90	83.27	86.63	90.00
H	Average Accumulated	Rs Cr	42.10	44.89	47.93	51.30	54.66	58.03	61.39	64.76	68.12	71.49	74.85	78.22	81.59	84.95	88.32
I	Asset Net of Depreciation	Rs Cr	56.46	53.75	50.39	47.02	43.66	40.29	36.92	33.56	30.19	26.83	23.46	20.10	16.73	13.37	10.00

<b>Interest on Loan</b>																	
S.No.	Particulars	UoM	11th Year	12th Year	13th Year	14th Year	15th Year	16th Year	17th Year	18th Year	19th Year	20th Year	21st Year	22nd Year	23rd Year	24th Year	25th Year
A	Opening Loan	Rs Cr	29.34	26.46	23.75	20.39	17.02	13.66	10.29	6.92	3.56						
B	Repayment during the year	Rs Cr	2.88	2.71	2.54	2.37	2.20	2.03	1.86	1.69	1.52	1.35	1.18	1.01	0.84	0.67	0.50
C	Closing Loan	Rs Cr	26.46	23.75	20.39	17.02	13.66	10.29	6.92	3.56	0.19						
D	Average Loan	Rs Cr	27.90	25.11	22.07	18.70	15.34	11.97	8.61	5.24	1.88						

<b>Return on Equity</b>																	
S.No.	Particulars	UoM	11th Year	12th Year	13th Year	14th Year	15th Year	16th Year	17th Year	18th Year	19th Year	20th Year	21st Year	22nd Year	23rd Year	24th Year	25th Year
A	Asset Net of Depreciation	Rs Cr	56.46	53.75	50.39	47.02	43.66	40.29	36.92	33.56	30.19	26.83	23.46	20.10	16.73	13.37	10.00
B	Average Equity	Rs Cr	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	26.63	23.27	19.90	16.54	13.17
C	Average Capex loan	Rs Cr	39.52	37.63	35.27	32.92	30.56	28.20	25.85	23.49	21.14	18.78	16.42	14.07	11.71	9.36	7.00
G	Cost of Debt, Rd	%	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
H	Rate of Return on Equity, Re	%	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
J	Return on Equity	Rs Cr	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	3.73	3.26	2.79	2.32	1.84
K	Interest on Loan	Rs Cr	2.23	2.01	1.77	1.50	1.23	0.96	0.69	0.42	0.15	0.00	0.00	0.00	0.00	0.00	0.00

<b>Annual Fixed Cost - RoE on NFA Basis</b>																	
S.No.	Particulars	UoM	11th Year	12th Year	13th Year	14th Year	15th Year	16th Year	17th Year	18th Year	19th Year	20th Year	21st Year	22nd Year	23rd Year	24th Year	25th Year
A	Return on Equity	Rs Cr	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	3.73	3.26	2.79	2.32	1.84
B	Interest on Loan	Rs Cr	2.23	2.01	1.77	1.50	1.23	0.96	0.69	0.42	0.15	0.00	0.00	0.00	0.00	0.00	0.00
D	Depreciation	Rs Cr	2.88	2.71	2.54	2.37	2.20	2.03	1.86	1.69	1.52	1.35	1.18	1.01	0.84	0.67	0.50
F	Annual Fixed Cost	Rs Cr	9.31	8.92	8.52	8.12	7.72	7.32	6.92	6.52	6.12	5.72	5.32	4.92	4.52	4.12	3.72
Total			95.71	90.08	84.45	78.82	73.19	67.56	61.93	56.30	50.67	45.04	39.41	33.78	28.15	22.52	16.89