POWER FOUNDATION OF INDIA

Power Foundation of India

(An autonomous Society under the Ministry of Power , Govt of India)

No. PFI/Prog/HERC/2026/004 Dated: 8/01/2026

To,

The Secretary
Haryana Electricity Regulatory Commission
Bays No. 33-36, Sector-4,
Panchkula, Haryana-134112

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

Reference: a) HERC inviting Comments on True Up of FY 2024-25 & ARR Petition for FY 2026-27
b) HERC Letter dated 2/01/2026 regarding Time Extension

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 & ARR Petition for FY 2026-27 filed by Haryana DISCOMs, Dakshin Haryana Bijli Vitran Nigam Limited (DHBVNL) & Uttar Haryana Bijli Vitran Nigam Limited (UHBVNL) before HERC. Our comments/ suggestions on the said Petition of are enclosed herewith for your consideration as *Annexure- I & II* 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 secretary.herc@nic.in and dir-trf.herc@nic.in.

Warm Regards,

Encl: Annexure – I & II

Copy to:

1. **The Hon'ble Chairperson**
   Haryana Electricity Regulatory Commission
2. **The Hon'ble Member**
   Haryana Electricity Regulatory Commission

Yours Sincerely,

Anshuman Srivastava
(Executive Director, PFI)

POWER FOUNDATION OF INDIA
B-28, Qutab Institutional Area, New Delhi-110 016
+91 11-69650000, E mail: info@powerfoundation.org.in
Website: www.powerfoundation.org.in

ANNEXURE-I

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

A. Sales and Revenue

A-1. Sales

1) DHBVNL has submitted the Sales of 35779 MU in FY 2024-25. PFI observed that Audited Accounts of DHBVNL has showcased unmetered Agricultural sale of 1,758 MU, which is almost 5% of the total sales during the year, which was not highlighted by DISCOM in the Petition.

Revenue from Sale of Energy (SOP)

(In Lakhs)

Particulars	Energy Sold	Energy Sold Un - metered	Gross energy Sold	Revenue from sale of Energy	Tariff subsidy billed	Tariff Subsidy received
Domestic	103881.49	-	-	426332.87	16700.00	0.00
NDS	25550.11	-	-	166228.75	170.96	170.96
HT	121835.21	-	-	825238.61	5842.78	538.48
LT	12057.96	-	-	79134.76		-
Agriculture	65147.38	17581.74	47565.64	10869.44	386021.87	342099.87
Public Street Light	1103.89	-	-	8816.05	-	-
Public						

2) *"Standard operating Procedure for subsidy accounting and payment"* by Ministry of Power mention that no electricity connection should be released without metering as per extant law and accordingly assessment of energy supplied to subsidized category of consumers to be computed on measured energy through proper metering only.

3) It is observed that Rajasthan DISCOMs have metered all the unmetered Agricultural sales within a short span of 2-3 years, relevant extract from AVVNL Petition wherein AVVNL has submitted the energy sales trend is as follows:

Petition for Approval of True up for FY 2024-25, ARR, Tariff and Investment Plan for FY 2026-27 | AVVNL

Category	FY-17	FY-18	FY-19	FY-20	FY-21	FY-22	FY-23	FY-24	FY-25
Domestic	3,389	3,483	3,653	4,027	4,280	4,406	4,964	5,113	6,191
Non-Domestic	1,088	1,172	1,254	1,325	1,046	1,237	1,524	1,603	1,813
Public St. Lights	75	74	84	86	84	88	101	106	104
Agriculture (Metered)	4,151	4,509	4,866	5,288	5,977	6,135	7,350	7,991	8,578
Agriculture (Flat rate)	969	855	590	551	541	322	10	2	-
Small Industry	278	281	273	274	268	271	289	287	301
Medium Industry	781	847	854	858	756	871	850	853	830
Large Industry	2,390	3,348	4,373	4,031	3,935	5,758	8,279	7,869	7,937
PWW (Small)	283	331	359	375	379	387	394	410	410
PWW (Medium)	70	49	36	34	36	33	35	37	38

4) In view of above, PFI requests the Hon'ble Commission to direct DISCOM to meter all the unmetered Agricultural consumers within next 3 years and to submit monthly progress report to the Hon'ble Commission and to upload the same on their website.

A-2. Distribution Loss

5) PFI observed that the distribution loss target approved by the Hon'ble Commission was 10.00% for FY 2024-25, whereas the actual distribution loss achieved by DHBVNL was 10.26%, which is marginally higher than the approved level. PFI requests the Hon'ble Commission to consider the distribution loss as claimed by the DISCOM.

6) However, it is observed that DISCOM has some circle with higher Distribution loss than the 10%, like

- Palwal Circle: 23.40%
- Bhiwani Circle: 17.05%
- Hisar Circle: 18.22%
- Jind Circle: 33.06%

7) DHBVNL has submitted that it has taken various initiatives like ensuring high HT:LT ratio, promoting rooftop solar system, introducing demand side management program,

system strengthening work, etc. to maintain the line losses. **PFI requests Hon'ble Commission to take into account such high loss levels Circles and direct the DISCOM to reduce Distribution losses in such Circles through enforcement drives.**

8) It is pertinent to state that, the Government of India has approved the RDSS to support DISCOMs in improving their operational efficiencies. One of the components on which RDSS Scheme focuses is Loss Reduction. Under this part, infrastructure strengthening works will include Aerial Bunch cables and HVDS for loss reduction, replacement of HT/LT lines as required, construction of new/ upgradation of substations, etc. is to be done. The Total sanctioned funds under RDSS for Haryana DISCOMs is Rs. 6,828 Cr. (Source: RDSS portal). **Hon'ble Commission may direct DISCOM to utilize such funding and reduce the Distribution losses of such Circles.**

9) PFI observed that Hon'ble Commission in Tariff Order dated 28/03/2025 directed DISCOMs to reduce AT&C losses of all urban feeders below 20% and that of Rural feeders below 40% and to submit the Status Report after 3 months of the order.

10) However, DISCOMs have not showcased or submitted the feeder wise AT&C losses details with the Petition. Thus, PFI requests the Hon'ble Commission to direct the DISCOMs to submit the circle-wise losses and action plan for reducing the losses of such circles.

A-3. Revenue

11) PFI notes that the DHBVNL has considered Subsidy from the Haryana Government amounting to Rs. 3,769.41 Cr. and highlighted outstanding subsidy of Rs. 192 Cr. DISCOM further requested to the Hon'ble Commission to allow pass through of the remaining subsidy through the ARR.

TABLE 2-16 SUBSIDY RECEIPT FROM GOVT. OF HARYANA FOR FY 2024-25 *(RS. CRORE)*

S. No.	Particulars	Actual
1	Subsidy for Agriculture Category	3,542.27
2	Subsidy for Other than Agriculture Category	227.14
4	**Total Subsidy Receipts**	**3,769.41**

TABLE 2-17 INCREASE IN AP SUBSIDY FOR FY 2024-25 *(RS. CRORE)*

S. No.	Particulars	Unit	Amount
1	RE Subsidy allowed in TO dated 05.03.2024	Rs Crs	5,941.17
2	Approved AP Sales in TO dated 05.03.2024	MU	9,325.21
3	Approved Per unit Subsidy	Rs/kWh	6.48
4	Normative Agriculture Sales of UHBVNL	MU	4,065.27
5	Normative Agriculture Sales of DHBVNL	MU	5,560.57
6	**Normative Agriculture Sales**	**MU**	**9,625.85**
7	Eligibility of subsidy based on actual sales of 2024-25	Rs. Crs	6,132.71
8	**Subsidy Outstanding/(Surplus)**	**Rs Crs**	**191.54**

12) PFI observed that subsidy amount claimed by DHBVNL of Rs. 3,769 Cr. does not match with the Audited Accounts, which is Rs. 4,087 Cr.

Revenue from Sale of Energy (SOP)

(In Lakhs)

Particulars	Energy Sold	Energy Sold Un - metered	Gross energy Sold	Revenue from sale of Energy	Tariff subsidy billed	Tariff Subsidy received
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Agriculture	65147.38	17581.74	47565.64	10869.44	386021.87	342099.87
Public Street Light	1103.89	-	-	8816.05	-	-
Public Water Works	7850.01	-	-	56251.94	-	-
Railway	928.51	-	-	5833.80	-	-
Bulk Supply	17410.14	-	-	94848.86	-	-
Lift Irrigation	2001.03	-	-	16039.26	-	-
Others	24.48	-	-	67.17	-	-
Inter State Sale	39411.25	-	-	168247.61	-	-
Total	397201.46	17581.74	47565.64	1857909.10	408735.61	342809.31
Fixed charge				140570.89		
FSA Assessed				153222.00		
Subsidy				408735.61		
Misc. Charge from Consumer				6471.54		
Open Access Charge				838.73		
Total Revenue as per Note -27				2,56,77,47.87		

Gross Trade Receivable

13) Accordingly, PFI has recomputed the total revenue of DHBVNL after considering the actual subsidy booked by the DISCOM.

(Rs. Cr.)

Particulars	Claimed by DHBVNL	Proposed by PFI
Revenue from Sale of Power	18,302.32	18,302.32
Revenue from Interstate sales	1,682.48	1,682.48
Subsidy from State Government	3,769.41	4,087.35
Revenue From FSA pertaining to current year	991.26	991.26
Total Revenue	**24,745.47**	**25,063.41**

14) In view of above, PFI requests the Hon'ble Commission to consider the revenue as Rs. 25,063 Cr. against the claim of Rs. 24,745 Cr. and also request to direct DISCOM to submit the reason of discrepancy in data.

(Rs. Cr.)

Particulars	Claimed by DHBVNL	Proposed by PFI	Difference
Revenue	24,745	25,063	318

B. Power Purchase Cost

B-1. Merit Order Despatch adherence

15) DHBVNL 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.

16) PFI observes that DHBVNL has not submitted monthly reports certified by Haryana 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 DHBVNL to submit the details along with certification from Haryana SLDC that MoD has been followed in true letter and spirit.

B-2. Prior Period Expenses

17) PFI observed from the Table no. 2-3 of the Petition that DISCOMs have considered Prior Period Expenses amounting to Rs. 1,783.45 Cr. while submitting the Total Power Purchase Cost for FY 2024-25, which has resulted in an increase in the Average Power Purchase Cost (APPC) from Rs. 5.42/kWh (excluding Prior Period Expenses) to Rs. 5.65/kWh (including Prior Period Expenses).

Particulars	Submitted by DISCOMs
Power Purchase Quantum (MUs)	76,482
Power Purchase Cost (Rs. Cr.)	36,939
APPC excluding Transmission Charges (Rs./kWh)	4.84

Particulars	Submitted by DISCOMs
PGCIL charges (Rs. Cr.)	2,490
HVPNL Charges (Rs. Cr.)	1,992
Prior Period Expenses	**1,783**
Total Power Purchase Cost (Rs. Cr.)	**43,205**
APPC Cost excluding Prior Period Expenses (Rs./kWh)	5.42
APPC Cost including Prior Period Expenses (Rs./kWh)	5.65

18) It is observed that DISCOMs have not submitted the details of reason of such prior period adjustment like True-up or Tariff Order of Generating Plants, Hon'ble APTEL or Hon'ble CERC order resulting arrears etc. with the Petition.

19) In view of above, PFI requests the Hon'ble Commission to direct the DISCOM to furnish nature of the prior period expenses along with supporting documents, and consider allowance of such prior period expenses, if any, only after due prudence check and verification. The same should be borne by Govt. of Haryana in the form of Subsidy.

B-3. Renewable Purchase Obligation

20) PFI notes that DHBVNL has not submitted any detailed information regarding its source-wise Renewable Purchase, RPO compliance and shortfall if any, as part of the present petition. The absence of such details prevents meaningful examination of statutory compliance with the applicable RPO Regulations.

21) PFI has observed that there exists a material variation between the RPO trajectory specified by the Hon'ble Commission under the HERC RPO Regulations, 2022 and the RPO trajectory notified by the Ministry of Power (MoP) for FY 2024-25. However, Ministry of Law & Justice through Gazette Notification dated 20/12/2022 amended the *Energy Conservation (Amendment) Act, 2022* and gives power to Central Govt. to specify minimum share of consumption of non-fossil sources by designated consumers as energy or feedstock, provided different share of consumption may be specified for different types of non-fossil sources for different designated consumers. Subsequently, Ministry of Power notified minimum share of consumption of non-fossil sources (renewable energy) by designated consumers including DISCOMs vide its notification

dated 23/10/2023. Accordingly, Ministry of Power notification dated 23/10/2023 will supersede the Hon'ble Commission Regulation.

22) As per the *HERC (Terms and Conditions for determination of Tariff from Renewable Energy Sources, Renewable Purchase Obligation and Renewable Energy Certificate) Regulations, 2021, (2nd Amendment) 2022* dated on 26th Dec 2022, the RPO target is as follows:

renewable energy sources under the Renewable Purchase Obligation (RPO) as under: -

Year	Wind RPO	HPO	Other RPO	Total RPO
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%

23) RPO Trajectory as per Ministry of Power notification dated 23/10/2023 is as follows:

TABLE

Sl.No	Year	Wind renewable energy	Hydro renewable energy	Distributed renewable energy*	Other renewable energy	Total renewable energy
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	2024-25	0.67%	0.38%	1.50%	27.35%	**29.91%**
2.	2025-26	1.45%	1.22%	2.10%	28.24%	**33.01%**
3.	2026-27	1.97%	1.34%	2.70%	29.94%	**35.95%**
4.	2027-28	2.45%	1.42%	3.30%	31.64%	**38.81%**
5.	2028-29	2.95%	1.42%	3.90%	33.10%	**41.36%**
6.	2029-30	3.48%	1.33%	4.50%	34.02%	**43.33%**

24) 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.

25) 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 renewable energy resources 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 Haryana, 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 corresponding 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.

26) It is evident from the above paras that every source is important to provide round the clock power and have minimum impact on grid.

27) In view of above, PFI requests the Hon'ble Commission to align RPO trajectory in line with the Ministry of Power RPO Trajectory and direct DISCOM to submit the compliance status with the Petition.

C. Operation & Maintenance Expenses

C-1. A&G Expense - Corporate Social Responsibility

28) PFI observes that DHBVNL has claimed an amount of Rs. 2.90 Cr. towards Corporate Social Responsibility (CSR) under A&G expenses in Note No. 33 of the Audited Accounts. CSR expenditure arises out of a statutory corporate obligation under the Company Act which is linked to the profit of the company and the same should be done from the profit only and is not directly related to the licensed activity of supply of electricity. Therefore, the same can't be allowed to be passed on to the consumers.

Dakshin Haryana Bijli Vitran Nigam Limited
Note No. 33
Other expenses

(Amount in Lakhs)

Account Codes	Particulars	For the year ended 31st March 2025	For the year ended 31st March 2024
	Repair & Maintenance (R&M)		
74.3	Civil Works	0.68	3.19
74.1 & 74.5	Machinery	21,131.15	18,593.46
74.2,74.6 to 74.8	Others	1,023.96	1,019.00
	Total Repair & Maintenance (a)	**22,155.79**	**19,616.65**
	Administrative & General Expenses (A&G)		
76.101	Rent (including lease rentals)	360.54	339.10
76.102	Rate & Taxes	19.27	115.05
76.103-106	Insurance	40.17	45.55
76.111-116	Telephone charges,postage,tele-gram, telex charges & Mtc.of website of internet, new instruments	944.79	947.52
76.120	Expenditure on Internal Audit carried out by Outsource Agencies	27.11	30.07
76.121	Legal charges	1,053.58	959.92
76.122	Audit fees	5.85	5.85
76.123	Consultancy charges	2,015.68	2,572.25
76.124 & 76.125	Other professional charges & technical Fees	280.25	296.50
76.126	Service charges for computerization	1,179.43	1,128.44
76.128	Payment of consultancy charges for Reform and Restructuring	-	2.63
76.129	Exp. on training to staff for computer	142.54	202.55
76.130	License fee	1,120.14	903.88
76.131-139	Conveyance & travelling expenses.	3,570.67	3,234.52
76.153	Printing & Stationery	556.08	526.76
76.158	Electricity Charges	571.32	590.48
76.151, 152, 76.154-157, 76.159-191 (except 76.170), 193,194	Other expenses like watch & ward of building, photo state charges, indexing & scanning of consumer case files and implementation of online computerization etc.	5,783.32	6,126.28
76.196	Expenditure on CSR Activities	290.37	788.24
76.197	Expenditure incurred for providing AC Subsidy	-	1.02
76.198	Digital Payment of Energy Bill-Incentive Thereon	-	-

29) Accordingly, PFI requests the Hon'ble Commission to not consider the CSR expenditure of Rs. 2.90 Crore as part of A&G Expenses and to allow A&G expenses of Rs. 193.50 Cr. against the claim of Rs. 196.40 Cr. The same should be borne by Govt. of Haryana in the form of subsidy.

(Rs. Cr.)

Particulars	Projected by DHBVNL	Proposed by PFI	Difference
A & G Expenses	196.40	193.50	2.90

D. Interest On Working Capital

30) PFI has observed that during FY 2024-25, DHBVNL has billed subsidy amounting to Rs. 4,087.35 Cr., whereas the subsidy released by the State Government is Rs. 3,428.09 Cr., resulting in an outstanding subsidy receivable of Rs. 659.26 Cr. during the year. The non-receipt of the full subsidy amount within the same financial year has adversely impacted on the cash flow and liquidity position of DISCOM.

31) Due to this liquidity constraint, DHBVNL has been compelled to rely on short-term borrowings to meet its day-to-day operational requirements, including payment towards power purchase and other statutory dues. As a result, the Interest on Working Capital has increased and has been claimed as Rs. 637.45 Cr. for FY 2024-25 as per the audited accounts.

32) In this regard, reference is drawn up to Section 65 of the Electricity Act, 2003, which clearly stipulates that where the State Government requires a distribution license to provide subsidy to any class of consumers, the State Government shall pay the subsidy amount in advance, so as to compensate Subsidy payment and its timely release are attributable to the State Government, therefore the State Govt. should bear the burden so that this burden will not be socialized at large among the consumers through Tariff. PFI has considered these two parameters for computing the collection efficiency of DISCOM and the same was considered for computing the Revenue (Gap)/Surplus for the year.

33) In view of the above, PFI requests Hon'ble Commission to consider Rs. 637.45 Cr. as Interest on Working Capital for FY 2024-25 and also request for amending the Regulatory provisions to allow actual interest on Working Capital for the DISCOMs considering the fact that there is outstanding subsidy to be paid by the Govt. Such interest on Working Capital is a prudent cost incurred by the DISCOM which if not allowed will become financial losses to the stressed DISCOM.

Rs. Cr.

Particulars	Claimed by DHBVNL	Proposed by PFI	Difference
Interest on Working Capital	637.45	637.45	0

E. Other Debits- Compensation

34) PFI notes that DHBVNL has claimed an amount of Rs. 30.17 Crore under "Other Debits" for FY 2024-25 based on Audited Accounts, stating that the same primarily relates to compensation, miscellaneous losses, etc., and has sought allowance of the same under the applicable regulations.

35) 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."

36) Conjoint reading of Section 57 & Section 59 leads to the conclusion that DHBVNL 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.

37) Further, Hon'ble APTEL vide its Judgment1 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 analysing the failure in meeting standard of performance and other details, relevant extract from said judgement is as follows:

"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."

38) PFI observes that DISCOMs have not submitted any details or reference of the communications forwarded to the Hon'ble Commission w.r.t. electrical accidents and action taken and have only claimed the compensation amount in the Petition.

39) 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.

40) In view of above, PFI proposes the Hon'ble Commission to direct DISCOMs to submit case-by-case reason of accident and allow pass through of compensation only in cases where the reason is not attributable to the DISCOM. Accordingly, PFI proposes the Hon'ble Commission to disallow the same till DISCOM submit the details and the same may be borne by Govt. of Haryana in the form of subsidy.

(Rs. Cr.)

Particulars	Claimed by DHBVNL	Proposed by PFI	Difference
Other debits	30	0	(30)

F. Non-Tariff Income

[1] https://www.aptel.gov.in/judgements/Judgment%20in%20APPEAL%20No.141%20of%202012_Replace_27092012_ssi.pdf

41) PFI notes that the DHBVNL have not considered Late Payment Surcharge (LPS) / Delayed Payment Surcharge collected from consumers while computing Non-Tariff Income (NTI) for the relevant financial years, even though LPS has been actually realised and reflected in the audited accounts under "Other Income / Miscellaneous Income".

42) PFI submits that LPS is levied on consumers for delayed payment of electricity bills and does not have any direct nexus with the provision of electricity supply.

43) 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."

44) Based on the above, PFI requests Hon'ble Commission to consider LPSC as part of Non-Tariff Income, netting off the Financing cost associated with the same. PFI based on the methodology shown in the aforementioned APTEL Judgement has computed NTI for DHBVNL based on their Audited Accounts for FY 2024–25.

(Rs. Cr.)

Sr. No.	Particulars	Claimed by DHBVNL	PFI Working
A	Non-Tariff Income	1,036.43	1,036.43

Sr. No.	Particulars	Claimed by DHBVNL	PFI Working
B	Less: Delayed Payment Surcharge from Consumer	573.35	573.35
C	Less: Discount on timely payment of Energy Charges	156.27	156.27
	Net Non - Tariff Income (A-B-C)	306.82	
D	Late Payment Surcharge (B/18%)		3,185.28
E	Less: Financing Cost (D*10.15%)		323.31
F	**Net Non - Tariff Income (A - C - E)**		**556.85**

(Rs. Cr.)

Particulars	Claimed by DHBVNL	Proposed by PFI	Difference
Non-Tariff Income	306.82	556.85	250.03

G. SUMMARY OF DHBVNL TRUE-UP PETITION FOR FY 2024-25

45) As stipulated above, summary of PFI Comments on True-up of FY 2024-25 for DHBVNL is as follows, Hon'ble Commission is requested to kindly consider the same.

(Rs. Cr.)

Sr. No.	Particulars	Claimed by DISCOM	Proposed by PFI	Difference
1	Sales (MU)	35,779	35,779	0
2	Distribution Loss	10.16%	10.16%	0.00%
3	Transmission Loss	3.23%	3.23%	0.00%
4	Power Purchase Cost	21,855	21,855	0
5	Transmission Charges	2,485	2,485	0
6	Operation & Maintenance (O&M) Expenses (6a+6b+6c+6d)	2,319	2,317	(1)
6a	Employee Expenses	1,862	1,862	0
6b	Administrative & General (A&G) Expenses	196	*194*	(3)
6b-i	*Less: Expenditure under CSR*		*3*	
6c	Repair & Maintenance (R&M) Expenses	222	222	0
6d	Sharing of Gain/Loss in O&M Expenses	39	40	
7	Return on Equity (RoE)	265	265	0
8	Interest on Loan	150	150	0
9	Interest on Working Capital	637	637	0

Sr. No.	Particulars	Claimed by DISCOM	Proposed by PFI	Difference
10	Interest on Consumer Security Deposit	117	117	0
11	Other Finance Charges	70	70	0
12	Depreciation	386	386	0
13	Others (Expenditure due to Other debits)	30	0	(30)
14	**Aggregate Revenue Requirement (ARR)**	**28,314**	**28,283**	**(32)**
15	Non-Tariff Income	307	557	250
16	**Net ARR**	**28,007**	**27,726**	**(282)**
17	Revenue from Sale of Power	19,985	19,985	0
18	Subsidy from Govt.	3,769	4,087	318
19	Revenue from FSA	991	991	0
20	Less: Impact due to overachievement of capitalization target	17	17	0
21	**Revenue (Gap)/Surplus**	**(3,278)**	**(2,679)**	**600**

46) In view of above, elements of ARR which are not as per Regulatory provisions may not be passed on to the consumers, rather it should be borne by Govt. of Haryana in the form of subsidy. **Accordingly, the revised subsidy is of Rs. 4,687 Cr. instead of booked subsidy of Rs. 4,087 Cr. for FY 2024-25 which should be paid by Govt. of Haryana to DHBVNL.**

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

H. Sales and Revenue Projections

H-1. Sales Projection for FY 2026-27

47) DHBVNL has projected energy sales of 40,724 MU for FY 2026-27.

48) PFI has observed that the DHBVNL has done computational errors while projecting the sales for FY 2026-27 and are not reconcilable with historical data for instance, DHBVNL has projected sales of Agriculture/FPO consumers as 15 MU after considering escalation of 10%, however actual sales in FY 2024-25 was only 8 MU and after considering the 10% growth it will be 10 MU only.

49) PFI observed that while multiple historical CAGR periods (2-year, 3-year, 5-year and 7-year) have been computed, the selected CAGR for projection is not consistently aligned with recent consumption trends. In several categories, DHBVNL has considered 5-year CAGR or 7-year CAGR or manual CAGR values for projecting sales, however the same does not showcase the recent trend as increase in consumption especially after COVID-19.

50) In view of above, PFI requests the Hon'ble Commission to consider 3-year CAGR as it provides a better reflection of current economic conditions, consumer behaviour, and demand patterns. Longer historical periods tend to smoothen recent growth signals and may not capture present realities.

51) PFI has reworked the energy sales projection by applying the realistic CAGR, as it better captures recent demand trends and provides a realistic basis for sales estimation, thereby aligning power purchase cost and ARR with actual requirements. as follows:

Sr. No.	Particulars	Projected by DHBVNL			Proposed by PFI			
		Sale in FY 2024-25	CAGR	Energy Sale projected	CAGR period considered	Growth (%)	Sales Projected	Difference
1	Domestic	10,389	5%	11,453	5%	Manual	11,453	0
2	HT – Supply	12,201	11%	14,919	18%	3-year	16,989	2,070
3	LT – Supply	3,838	8%	4,305	8%	3-year	4,477	172
4	Agriculture/FPO	8	10%	15	10%	Manual	10	(5)
5	Agriculture	6,507	5%	6,944	5%	3-year	7,174	230
6	Bulk Supply	1,741	5%	1,919	18%	3-year	2,424	505
7	Lift Irrigation	200	5%	221	5%	Manual	221	0
8	Street Lighting	110	1%	114	7%	3-year	126	12
9	Public Water Works	785	3%	835	3%	5-year	835	0
	Total	**35,779**		**40,724**			**43,708**	**2,984**

52) PFI has projected energy sales based on a realistic CAGR, whereby the power procurement requirement for the DISCOMs for FY 2026-27 works out to 43,708 MU, as against 40,724 MU considered by the DHBVNL. Accordingly, the DISCOMs would be required to procure an additional 2,984 MU of power to meet the projected energy requirement.

53) Accordingly, PFI has recomputed the energy balance of DHBVNL for FY 2026-27 considering the distribution loss & transmission loss projected by DHBVNL, as follows:

Energy Balance	Unit	FY 2026-27	PFI Working
Energy Sales to the Consumers	**MU**	**40,724**	**43,708**
T&D Loss	%	9.75%	9.75%
Energy Input at DISCOM Periphery	MU	45,124	48,429
Intra-State Transmission Loss	%	1.94%	1.94%
Energy Input at State Periphery	**MU**	**46,016**	**49,388**
Total Energy Available	**MU**	**51,675**	**51,675**
Inter-State Power Purchase considering MoD	MU	35,441	35,441
Inter-State Transmission Losses	%	3.65%	3.65%
Inter-State Power Purchase at State Periphery	MU	34,146	34,147
Intra-State Power Purchase considering MoD	MU	16,234	16,234
Power Purchase at State Periphery	**MU**	**50,380**	**50,381**
Surplus	**MU**	**4,364**	**994**

54) It is evident from the above table that the projected energy available is sufficient to meet the additional energy requirement as per PFI projections, and therefore, no incremental power procurement is required for FY 2026-27 by the DISCOM.

55) In view of above, PFI request the Hon'ble Commission to consider the energy sales as 43,708 MU against the claim of 40,724 MU.

H-2. Revenue

56) DHBVNL has claimed revenue realized as Rs. 24,960 Cr. after considering collection efficiency of 99.50% for FY 2026-27.

57) PFI has observed that DISCOM has neither submitted the details or trend of Sanctioned load of past years nor submitted the projection of Sanctioned load for FY 2026-27. Since, Fixed charges of consumers are dependent on the sanctioned load of consumers and DISCOM has estimated recovery from Fixed charges as Rs. 3,694 Cr. In view of above, **PFI requests the Hon'ble Commission to direct DISCOM to submit the details of sanctioned load of past 6-7 years along with the growth considered while projecting sanctioned load for FY 2026-27.**

58) PFI in the above paras, has recomputed the Energy sales for FY 2026-27 after considering the realistic growth in category-wise sales. Accordingly, PFI has recomputed the revenue for FY 2026-27 by considering the average Energy charge projected by DHBVNL for FY 2026-27 and Fixed charge as claimed by DHBVNL. The revised Energy Charge is as follows:

Sr. No	Particulars	Sale as per PFI (MU)	ABR (Rs./kWh)	Revenue (Rs. Cr.)
1	Domestic	11,453	5.77	6,607
2	HT – Supply	16,989	6.54	11,105
3	LT – Supply	4,477	6.66	2,979
4	Agriculture/FPO	10	4.75	5
5	Agriculture	7,174	0.06	40
6	Bulk Supply	2,424	6.58	1,595
7	Lift Irrigation	221	7.35	162
8	Street Lighting	126	7.35	93
9	Public Water Works	835	7.35	613
	Total Energy Charges	**43,708**		**23,199**

Particulars	Projected by DHBVNL	Proposed by PFI
Energy Charges	21,392	23,199
Fixed Charges	3,694	3,694
Total Revenue	25,086	26,893
Collection efficiency	99.50%	99.50%
Revenue Realized	**24,960**	**26,758**

59) In view of above, PFI requests the Hon'ble Commission to consider Energy Charges Revenue as Rs. 23,199 Cr. and total Revenue as Rs. 26,758 Cr.

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 DHBVNL 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 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.**

63) PFI observe that DISCOM while projecting power purchase cost for FY 2026-27, has claimed escalation of 4% in Energy Charges and 2% in Fixed Charges over the actuals of FY 2024-25 (or actuals up to September 2025, whichever is higher) for estimating the power purchase cost for FY 2026-27.

64) It is observed that DHBVNL has only submitted plant-wise Power Purchase Quantum and Total Charges. However, in order to validate the claim of DHBVNL, plant-wise breakup of Power Purchase Cost i.e., Fixed Charge and Energy Charge should be provided.

65) It is further 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 22.09.2025. These changes have a direct bearing on the cost of coal 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.

66) 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. 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.

67) 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.

68) In view of the Government of India notifications dated 17.09.2025 and the expected reduction in coal prices and consequent Energy Charge Rates of thermal power plants in FY 2026-17. Thus, PFI requests the Hon'ble Commission to consider Fixed Cost, Energy Charge Rate for FY 2026-27 at the same level as FY 2025-26, without any escalation. Accordingly, PFI has recomputed the Power Purchase Cost for FY 2026-27 as follows:

Particulars	Projected by DHBVNL	Proposed by PFI
Power Purchase Quantum (MU)	51,675	51,675
Fixed Charge (Rs. Cr.)	5,686	5,686
Energy Charge (Rs. Cr.)	16,803	16,309
Total Power Purchase Cost (Rs. Cr.)	**22,489**	**21,995**

69) In view of above, PFI requests the Hon'ble Commission to consider Power Purchase Cost as Rs. 21,995 Cr. instead of the claimed Power Purchase Cost of Rs. 22,489 Cr. The balance may be borne by the Govt. of Haryana in the form of subsidy.

J. Transmission Charges Projection

70) DHBVNL has projected the Transmission Charges after considered escalation of 3% & 2.5% on ISTS & InSTS charges actually paid in FY 2024-25.

71) PFI submits that the transmission cost for the ensuing year should be based on the transmission charges projected in FY 2025-26, rather than being projected by applying an escalation factor. Transmission charges are largely regulated and pass-through in nature, and any variation arising due to approved tariff orders or actual billing may be appropriately addressed through monthly FPPAS. Over projecting the Transmission charges reduces the upfront loading of the same on Tariff and ultimately on the consumers as large.

72) Accordingly, PFI requests the Hon'ble Commission to consider the Inter & Intra-state Transmission Charges as Rs. 2,554 Cr. as claimed for FY 2025-26, which is as follows:

(Rs. Cr.)

Particulars	Projected by DHBVNL	Proposed by PFI
Interstate Transmission Charges	1,492	1,449
Intrastate Transmission Charges	1,133	1,106
Total Transmission Charges	**2,625**	**2,554**

(Rs. Cr.)

Particulars	Projected by DISCOM	Proposed by PFI	Difference
Transmission Charges	2,625	2,554	(71)

73) In view of above, PFI requests the Hon'ble Commission to consider Transmission Charges as Rs. 2,554 Cr. instead of the claimed Transmission Charges of Rs. 2,625 Cr. The balance may be borne by the Govt. of Haryana in the form of subsidy.

K. Renewable Purchase Obligation

74) PFI notes that, DHBVNL has not submitted any details about RPO like source-wise renewable energy procurement, compliance/shortfall, short-term green power procurement or REC procurement to meet the shortfall, etc. with the Petition. In the absence of such details, it is not possible to assess the prudence and adequacy of RPO compliance by DHBVNL.

75) PFI further observes that there is a variation between the RPO trajectory specified under the HERC RPO Regulations and the trajectory notified by the Ministry of Power for FY 2026-27.

76) As per the HERC (Terms and Conditions for determination of Tariff from Renewable Energy Sources, Renewable Purchase Obligation and Renewable Energy Certificate) Regulations, 2021, (2nd Amendment) 2022 dated on 26th Dec 2022 is as follows:

renewable energy sources under the Renewable Purchase Obligation (RPO) as under: -

Year	Wind RPO	HPO	Other RPO	Total RPO
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%

(1)

77) Further, RPO Trajectory as per Ministry of Power notification dated 23/10/2023 is as follows:

TABLE

Sl.No	Year	Wind renewable energy	Hydro renewable energy	Distributed renewable energy*	Other renewable energy	Total renewable energy
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	2024-25	0.67%	0.38%	1.50%	27.35%	**29.91%**
2.	2025-26	1.45%	1.22%	2.10%	28.24%	**33.01%**
3.	2026-27	1.97%	1.34%	2.70%	29.94%	**35.95%**
4.	2027-28	2.45%	1.42%	3.30%	31.64%	**38.81%**
5.	2028-29	2.95%	1.42%	3.90%	33.10%	**41.36%**
6.	2029-30	3.48%	1.33%	4.50%	34.02%	**43.33%**

78) In this regard, PFI submits that pursuant to the Energy Conservation (Amendment) Act, 2022, the Central Government has been empowered to specify the minimum share of consumption from non-fossil sources, and the Ministry of Power notification dated 23.10.2023 prescribing RPO targets for designated consumers, including DISCOMs, would prevail.

79) Accordingly, PFI requests the Hon'ble Commission to direct DHBVNL to submit a detailed RPO compliance plan for FY 2026-27, duly aligned with the MoP-notified RPO trajectory, along with details of renewable procurement and/or REC requirement.

L. Operation & Maintenance Expenses

L-1. Terminal Cost

80) DHBVNL has projected considered Terminal Benefits of Rs. 629 Cr. while projecting Employee expenses for FY 2026-27.

81) PFI has observed that as per Note-4 of the Regulation 59.4 of HERC (Terms and Conditions for Determination of Tariff for Generation, Transmission, Wheeling and Distribution & Retail Supply under Multi Year Tariff Framework) Regulations, 2024, Terminal Benefits will be approved as per actuals paid by the Petitioner.

82) Accordingly, PFI requests the Hon'ble Commission to not consider Terminal Benefits of Rs. 629 Cr. while allowing Employee expenses. PFI has recomputed Employee Expenses as Rs. 1,354 Cr. against the projected Employee Expenses of Rs. 1,983 Cr. the balance may be borne by the Govt. of Haryana in the form of subsidy.

(Rs. Cr.)

Particulars	Projected by PSPCL	Proposed by PFI	Difference
Employee Expenses	1,983	1,354	(629)

M. BAD AND DOUBTFUL DEBTS:

83) PFI notes that DHBVNL has projected Bad and Doubtful Debts of Rs. 125.43 Crore for FY 2026-27 by adopting the maximum limit of 0.5% of estimated sales revenue under Regulation 66 of the HERC MYT Regulations, 2024. However, the Regulation clearly provides that such expenses are allowable only to the extent of actual bad debts written off and subject to submission of complete supporting data to the satisfaction of the Hon'ble Commission. Relevant extact is as follows:

> *"66. BAD AND DOUBTFUL DEBTS*
>
> *Bad and doubtful debts shall be allowed to the extent the distribution licensee has actually written off bad debts subject to a maximum of 0.5% of sales revenue. However, this shall be allowed only if the distribution licensee submits all relevant data and information to the satisfaction of the Commission. In case there is any recovery of bad debts already written off, there covered bad debts will be treated as other income."*

84) PFI further observes that DHBVNL has not booked any bad and doubtful debts on actual basis in FY 2024-25 as per Audited Accounts. In the absence of demonstrated write-offs, allowance of the maximum permissible limit on an estimated basis would result in upfront loading of costs on consumers, which is not in line with prudent regulatory practice.

85) Accordingly, PFI requests the Hon'ble Commission to consider allowance of Bad and Doubtful Debts strictly on actual write-off basis, supported by relevant data, and to appropriately true-up the same, so as to avoid undue burden on consumers. The same may be borne by Govt. of Haryana in the form of subsidy.

(Rs. Cr.)

Particulars	Projected by DHBVNL	Proposed by PFI	Difference
Bad & Doubtful Debts	125	0	(125)

N. Non-Tariff Income

86) DHBVNL has considered Non-Tariff Income of Rs. 307 Cr. as actuals claimed in FY 2024-25 True-up Petition.

87) PFI in True-up section has recomputed the Non-Tariff Income as Rs. 557 Cr. by considering the LPSC after netting off the Financing cost associated with the same.

88) PFI requests the Hon'ble Commission to consider Non-Tariff Income for FY 2026-27 as Rs. 557 Cr.

89) (Rs. Cr.)

Particulars	Projected by DISCOM	Proposed by PFI	Difference
Non-Tariff Income	307	557	250

O. Revenue against Inter-State Sales

90) PFI in above para has recomputed the Energy sales based on the 2-year or 3-year CAGR growth instead of 5-year or 7-year growth, which resulted in increase of Sales and resulted in reduction of surplus power from 4,364 MU to 994 MU.

91) DHBVNL has considered revenue against this surplus power at an average rate of Rs. 3.38/kWh and expected revenue of Rs. 1,473 Cr. in FY 2026-27. However, it is observed that in FY 2024-25, DHBVNL sold 3,941 MU and recovered revenue of Rs. 1,682 Cr. which resulted in average rate of sale of power as Rs. 4.27/kWh. The summary is as follows:

Particulars	FY 2024-25 (Actual)	FY 2026-27 (Projected)
Sale of Surplus power (MU)	3,941	4,364
Revenue (Rs. Cr.)	1,682	1,473
Avg. Rate (Rs./kWh)	4.27	3.38

92) In view of above, PFI has recomputed the revenue from sale of surplus power by considering the avg. rate as Rs. 4.27/kWh (actuals of FY 2024-25) instead of Rs. 3.38/kWh as projected by DHBVNL, as follows:

Particulars	Projected by DHBVNL	Proposed by PFI	Difference
Sale of Surplus power (MU)	4,364	994	(3,370)
Avg. Rate (Rs./kWh)	3.38	4.27	0.89
Revenue (Rs. Cr.)	1,473	424	(1,049)

93) Accordingly, PFI requests the Hon'ble Commission to consider the revenue from sale of surplus power as Rs. 424 Cr. instead of Rs. 1,473 Cr.

P. SUMMARY OF DHBVNL ARR & TARIFF PETITION FOR FY 2026-27

94) As stipulated above, summary of PFI Comments on ARR of FY 2026-27 for DHBVNL is as follows, Hon'ble Commission is requested to kindly consider the same.

(Rs. Cr.)

Sr. No.	Particulars	Projected by DISCOM	Proposed by PFI	Difference
1	Sales (MU)	40,724	43,708	2,984
2	Distribution Loss	9.75%	9.75%	0.00%
3	Transmission Loss	3.65%	3.65%	
4	Power Purchase Cost	22,489	21,995	(494)
4a	***Less/Add:*** *Power Purchase Cost considering escalation*		*494*	
5	Transmission Charges	2,625	2,554	(71)
5a	***Less:*** *Transmission charges considering escalation*		*71*	

Sr. No.	Particulars	Projected by DISCOM	Proposed by PFI	Difference
6	Operation & Maintenance (O&M) Expenses (6a+6b+6c)	2,490	1,861	(629)
6a	Employee Expenses	1,983	1,354	(629)
6a-i	***Less:*** *Terminal Benefits*		*629*	
6b	Administrative & General (A&G) Expenses	*214*	*214*	0
6c	Repair & Maintenance (R&M) Expenses	*294*	*294*	0
7	Return on Equity (RoE)	312	312	0
8	Interest on Loan	1,133	1,133	0
9	Depreciation	697	697	0
10	Others (Bad & Doubtful Debts)	125	0	(125)
11	**Aggregate Revenue Requirement (ARR)**	**29,872**	**28,552**	**(1,319)**
12	Non-tariff Income	307	557	250
13	**Net ARR**	**29,565**	**27,995**	**(1,570)**
14	Revenue from Sale of Power	24,960	26,758	1,798
15	Interstate Sales	1,473	424	(1,049)
16	Subsidy	4,182	4,182	0
17	**Revenue (Gap)/Surplus**	**1,050**	**3,369**	**2,319**

95) **In view of above, it is observed that DHBVNL is Revenue Surplus by Rs. 3,369 Cr. instead of revenue surplus of Rs. 1,050 Cr. as projected. PFI requests the Hon'ble Commission to kindly consider the same.** Further, the Govt. of Haryana should provide additional subsidy of Rs. 2,319 Cr., on account of higher claims of DHBVNL as tabulated above, over and above the subsidy decided by Govt. of Haryana for FY 2026-27.

Q. Non-compliance of Hon'ble Commission Directives

96) Hon'ble Commission vide its Tariff Order for FY 2025-26 dated 28/03/2025 has issued multiple Directives to the DISCOMs and accordingly directed them to submit the progress reports on Quarterly basis and roadmap with the next Petition.

97) However, it is observed that DISCOMs have not submitted the compliance of the Directives issued by Hon'ble Commission with the Petition.

98) In view of above, PFI requests Hon'ble Commission to direct DISCOMs to share the compliance and the progress reports on their website.

R. ENERGY STORAGE

99) 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.

100) 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.

101) 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 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 BESs 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."

102) 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.

103) 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.

104) The CEA in its Report for Resource Adequacy Plan2 for the State of Haryana for the period from FY 2025-26 to FY 2035-36 has identified that:

- Haryana is likely to witness an energy deficit ranging from 200 MU to 3,90 MU in different years from 2026-27 to 2035-36 with the existing and planned capacity addition.
- Haryana is projected to face unserved energy in the coming years and will need to contract additional solar, wind and storage capacities beyond those already planned. In addition to the existing and already planned contracts, Haryana needs to tie up approximately 11,270 MW from Coal, 10,437 MW from Solar, 3,375 from Wind, 6,493 MW from Distributed Renewable Energy (DRE) source, **5,308 MW from Energy Storage System and others**. The year-wise Storage capacity requirement is as follows:

Year	Storage (PSP/BESS/Hybrid Integrated BESS) (MW)	
	Planned Contracts	Additional Requirement
FY 2026-27	618	
FY 2027-28	109	
FY 2031-32		453

[2] https://cea.nic.in/wp-content/uploads/resource_adequacy_st/2025/12/Report_on_Resource_Adequacy_Plan_for_Haryana_Up_to_2035_36.pd

FY 2032-33		892
FY 2033-34		1270
FY 2034-35		1765
Total	**727**	**4382**

105) Further, it is observed that Hon'ble Commission in its Tariff order dated 28/03/2025 has directed DISCOMs to take timely action to avail the opportunity of VGF on BESS projects and submit a concrete action plan to deploy the BESS at its sub-stations.

106) Standalone and co-located ESS can play an important role in meeting RA requirements under India's emerging RA framework. Going forward, state-level RA frameworks need to be closely aligned with long-term planning and resource procurement processes to support cohesive implementation.

107) **In view of the above, 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, Haryana DISCOMs necessitates to also consider Energy Storage as part of their Power Procurement Planning in line with Resource Adequacy Planning formulated by CEA for Haryana.**

S. PM Surya Ghar – Muft Bijli Yojna and Demand Side Management

108) 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 lakh, with the numbers doubling to 20 lakh by October 2025, reaching 40 lakh by March 2026, and ultimately achieving the target of one crore by March 20273. 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.

[3] https://pib.gov.in/PressReleasePage.aspx?PRID=2081250

109) 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 none of the DISCOMs have submitted any proposal related to **PM Surya Ghar – Muft Bijli Yojna**.

110) PFI observed that Hon'ble Commission in its Tariff Order dated 28/03/2025 directed DISCOMs to submit a concrete action plan to flatten its demand curve. The relevant extract is as follows:

> 5. The Commission observes that there is an average gap of 3000 MW on maximum and minimum demand being met on each day. Further, during winters demand remains in the maximum-minimum bracket of 7000 MW to 4000 MW and during summers it remains in the bracket of 14000 MW to 10000 MW. In order to meet this fluctuating demand, Discoms have tied up power purchase capacity of around 15900 MW. The Discoms have not resorted to adopt adequate DSM measures to flatten its demand curve including shifting of AP load to off-peak load hours of the day.
>
> In this regard, Discoms are directed to submit a concrete action plan to flatten its demand curve, within three months from the date of this order.

111) Further, it is observed that the DISCOMs have also not submitted any proposal related to **Demand Side Management (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.

112) In view of above, PFI submits that Sales forecast for DISCOMs in ARR of FY 2026-27 may be done considering the impact of **PM Surya Ghar – Muft Bijli Yojna and Demand Side Management (DSM) initiatives**.

T. Bifurcation of DISCOM ARR into Wheeling & Retail Business

113) 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.

114) In view of above, PFI requests the Hon'ble Commission to direct DISCOMs to submit separate Petition for Wheeling and Retail Business along with break-up of business-wise expenses and income in Audited Accounts.

U. GFA OR NFA approach for Return on Equity

115) Under Section 181 of the Electricity Act, 2003, SERC has been defined specific function 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.*"

116) 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;*"

117) 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.

118) 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 till 25 years. Initially, Capital Cost is split into 70 : 30 :: Debt : Equity which is being currently dealt as follows :

- **For 1st 12 years** *(ref: Regulation 21.1 (viii) HERC Tariff Regulations, 2019)*

  - Loan Repayment equivalent to 70% of Capital Cost, is being linked to Depreciation and it's 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.

" 21.1. (viii) In case any moratorium period on repayment of loan is availed of by the generating company or the licensee, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly.

Provided that the repayment for each year of the control period shall be deemed to be equal to the depreciation allowed for the corresponding year."

- **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.

119) So, a utility, after 12 years (when loan has been fully repaid) receives Depreciation in Fixed Charges 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

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

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

121) Hon'ble CERC in it's 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 capital 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

122) Hon'ble CERC in it's 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
Return on Equity (Pre Tax)	**3947.49**	**3431.93**	**3204.99**	**3032.10**	**2619.31**

123) 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.

124) 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.

125) **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.**

126) It is also observed that Hon'ble Commission in last proviso of Regulation 19.3 of HERC (Terms and Conditions for Determination of Tariff for Generation, Transmission, Wheeling and Distribution & Retail Supply under Multi Year Tariff Framework) Regulations, 2019 has already directed DISCOMs to follow the same principle of reduction of equity. The relevant extract is as follow:

"In case of Generating Station or a transmission system or distribution system, which has completed its useful life as on or after 1.4.2020, the accumulated depreciation as on the

completion of the useful life less cumulative repayment of loan shall be utilized for reduction of the equity and depreciation admissible after the completion of useful life and the balance depreciation, if any, shall be first adjusted against the repayment of balance outstanding loan and thereafter shall be utilized for reduction of equity."

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

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

V. Bifurcation of Revenue on DISCOM level

129) It is observed that the Hon'ble Commission provides the consolidated Revenue (Gap)/Surplus for Haryana while issuing the Tariff Order for any year, like in Tariff Order for FY 2025-26 dated 28/03/2025, the Revenue (Gap)/Surplus is Rs. 3,262 Cr. instead of highlighting the DISCOM wise Revenue (Gap)/Surplus. Relevant extract from the Order is as follows:

The Commission, based on approved Aggregate Revenue Requirement and revenue from sale of Power and AP Subsidy, determines revenue (gap)/surplus for ARR year FY 2025-26 for Haryana Discoms, as detailed as under: -

Approved Revenue (Gap)/Surplus for FY 2025-26 for both Discoms

Total ARR for FY 2025-26		FY 2025-26
UHBVNL	Rs. Crore	19338.81
DHBVNL	Rs. Crore	26027.22
Total ARR for FY 2025-26 (A)	Rs. Crore	**45366.03**
Revenue at current tariff on intrastate sale	Rs. Crore	34663.22
Revenue from Interstate State		0.00
Total Revenue (B)	Rs. Crore	34663.22
Total Sales for FY 2025-26 (C)	MU	62244.68
COS at LT level	Rs per unit	7.3536
AP sales for the FY 2025-26	MU	9304.27
Estimated Revenue from AP sales (E)	Rs. Crore	123.28
AP subsidy at LT COS (F)	Rs. Crore	6718.71
Subsidy for other consumers (G)	Rs. Crore	0.00
Total revenue incl Subsidy (H=B+F+G)	Rs. Crore	41381.93
Revenue surplus/(Gap) for FY 2025-26 at current tariff (H-A)	Rs. Crore	-3984.10
Revenue Surplus/(Gap) for FY 2023-24	Rs. Crore	721.72
Net Revenue Surplus/Gap for the FY 2025-26	Rs. Crore	-3262.38

130) PFI has already highlighted the issue to the Hon'ble Commission while presenting the Draft report "*Rating Regulatory Performance of States & UTs*" on 9/09/2025.

131) Further, MoP vide Electricity (Amendment) Rules, 2024 dtd. 10/01/2024 has specified the following with regards to Revenue Gap between approved Annual Revenue Requirement and estimated Annual Revenue from approved tariff:

"23. Gap between approved Annual Revenue Requirement and estimated annual revenue from approved tariff– The ***tariff shall be cost reflective and there shall not be any gap between approved Annual Revenue Requirement and estimated annual revenue*** *from approved tariff except under natural calamity conditions:"*

132) In view of above, PFI requests the Hon'ble Commission to highlight DISCOM wise Revenue (Gap)/Surplus instead of consolidated Revenue (Gap)/Surplus.

PRAYERS BEFORE HON'BLE HERC:-

1) **To consider the comments / suggestions of Power Foundation of India (PFI) on ARR & Tariff Petition of Haryana DISCOMs.**
2) **To direct DISCOMs to submit the action plan for metering the un-metered Agricultural consumers.**
3) **To direct DISCOMs to submit separate Petition for Wheeling and Retail Business along with break-up of business-wise expenses and income in Audited Accounts**
4) **To direct DISCOMs to submit the projection for Energy Balance, Power Purchase Quantum & Cost on monthly basis.**
5) **To direct DISCOMs to submit the details of RPO compliance and impose penalty on DISCOMs for non-compliance of Hon'ble Commission RPO Trajectory.**
6) **To reduce the CSR charges from O&M Expenses as claimed by the DISCOMs.**
7) **The inefficiencies of DHBVNL should not be allowed to socialize to consumers at large rather it should be borne by Government of Haryana by providing revised subsidy of Rs 4,687 Cr. instead of booked subsidy of Rs. 4,087 Cr. for FY 2024-25. Further, Govt. of Haryana should provide additional subsidy of Rs. 2,319 Cr. on account of higher claims of DISCOMs, over and above the subsidy to be decided by Govt. of Haryana for FY 2026-27.**
8) **To not allow any Tariff Hike as proposed by DISCOMs as they are in Revenue Surplus.**
9) **To direct DISCOMs to submit the compliance of Directives issued by the Hon'ble Commission in Tariff Order dated 28/03/2025.**
10) **To direct DISCOM to consider Energy Storage as part of their Power Procurement Planning in line with Resource Adequacy Planning formulated by CEA for Haryana.**
11) **To consider the additional submissions, if any, made by PFI for Haryana DISCOMs Tariff Petition for ARR & Tariff of FY 2026-27.**
12) **PFI request to the Hon'ble Commission to issue cost-reflective Tariff at DISCOM level**

Appendix -1

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 1st April 2024 to 31st 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
	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
Morning Peak	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
	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
Off Peak/ Solar Hours	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.

Sl No	Source	Plant Capacity (MW)	MP's Share in %	MP's Share in MW
G	**Total (IPPs)**	**10317.50**		**3644.50**
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
	Total (Solar)	**5003.74**		**5003.74**
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
	Total (Wind)	**3138.31**		**3138.31**
108	**Bio Mass/Bio gas/MSW**	**41.90**	**100.00%**	**41.90**
H	**Total Renewable Energy**	**8183.95**		**8183.95**
I	**Grand Total**	**79070.86**		**25547.28**

*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/Comml-I/6/Alloc/2025/1788-1819 dated 29th September'2025 and from **Eastern Region** NTPC Kahalgaon-2 vide GoI MoP letter no. ERPC/Comm-I/Gen/Share/2025-26/1188 dated 29th September 2025 **and Northern Region** as per Northern Regional Power Committee letter dated 1st 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
A	**Total (MP Genco Thermal-MP Share)**	**2,455**	**2,456**	**2,440**	**1,770**	**1,700**	**1,684**	**2,497**	**2,620**	**2,834**	**2,865**	**2,476**	**2,554**	**28,352**
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	Madikheda 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	**Total (MP Genco Hydel)**	**156**	**141**	**130**	**158**	**254**	**300**	**274**	**296**	**285**	**274**	**253**	**210**	**2,730**
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
C	**Total (JV Hydel & Other Hydel-NR)**	**315**	**371**	**373**	**440**	**1,257**	**1,239**	**916**	**527**	**697**	**728**	**558**	**468**	**7,890**
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 Vindyachal I	234	236	212	204	203	188	221	257	261	258	248	239	2,761
50	NTPC Vindyachal II	184	194	137	163	184	172	194	172	180	215	198	199	2,194
51	NTPC Vindyachal III	143	147	141	144	119	114	155	162	174	172	155	159	1,784
52	NTPC Vindyachal IV	165	170	159	136	144	137	146	184	196	194	175	179	1,985
53	NTPC Vindyachal V Unit 1	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 1	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 Gadarwara STPS, Unit-1	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 Gadarwara STPS, Unit-2	237	259	249	193	195	188	206	263	305	302	280	273	2,951
D	**Total WR Region**	**3,000**	**3,152**	**2,756**	**2,619**	**2,733**	**2,707**	**3,066**	**3,400**	**3,661**	**3,703**	**3,282**	**3,314**	**37,393**
67	NTPC Kahalgaon 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
E	**Total ER Region**	**109**	**107**	**107**	**111**	**98**	**84**	**116**	**115**	**118**	**128**	**112**	**114**	**1,320**
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 Jhajjar	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
F	**Total NR Region**	**14**	**14**	**13**	**13**	**13**	**12**	**14**	**16**	**17**	**17**	**14**	**15**	**171**
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 1	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-1	112	108	97	56	66	116	115	116	141	136	108	133	1,305
98	PFCCL	128	137	135	140	120	126	136	139	114	149	135	138	1,597
G	**Total (IPPs)**	**1,971**	**2,059**	**2,030**	**1,865**	**1,672**	**1,790**	**2,107**	**2,106**	**2,193**	**2,311**	**2,049**	**2,118**	**24,271**
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
H	**Total Renewable Energy**	**1,908**	**2,080**	**1,999**	**2,003**	**1,911**	**1,823**	**1,803**	**1,731**	**1,918**	**2,003**	**2,263**	**2,464**	**23,905**
I	**Grand Total**	**9,928**	**10,380**	**9,847**	**8,979**	**9,637**	**9,640**	**10,793**	**10,810**	**11,722**	**12,029**	**11,008**	**11,259**	**126,031**

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
A	**Total (MP Genco Thermal-MP Share)**	**4,068.53**	**5,158.59**	**9,227.12**	**28352.3**	**15593.7**	**4538.6**	**4573.4**	**1215.8**	**3823.7**	**9612.9**
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				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	**Total (MP Genco Hydel)**	**113.32**	**201.8**	**315.12**	**2729.6**	**2729.6**	**0.0**	**276.5**	**0.0**	**118.6**	**395.1**
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 Dhauliganga	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	Amhata Hydro Energy Pvt. Ltd.	-	-	0	11.3	11.3	0.0	6.3	0.0	0.0	6.3
43	Amhata Hydro Energy Pvt. Ltd. - II	-	-	0	11.3	11.3	0.0	6.6	0.0	0.0	6.6
44	Amhata 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
C	**Total (JV Hydel & Other Hydel)**	**587.52**	**727.02**	**1314.54**	**7889.6**	**7889.6**	**0.0**	**1412.5**	**0.0**	**560.8**	**1973.2**
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 Vindyachal I	269.99	687.55	957.54	2760.9	1506.4	849.8	327.2	184.6	270.5	782.2
52	NTPC Vindyachal II	152.14	489.21	641.35	2194.0	1190.8	624.5	265.4	139.2	170.8	575.4
53	NTPC Vindyachal III	175.71	388.24	563.95	1783.5	959.7	533.2	211.2	117.3	153.5	482.0
54	NTPC Vindyachal IV	303.52	394.33	697.85	1985.1	1061.8	636.8	222.6	133.5	321.9	677.9
55	NTPC Vindyachal V Unit 1	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 1	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 Gadarwara STPS, Unit-2	570.18	891.03	1461.21	2951.0	1529.4	4.1	617.3	1.7	598.7	1217.6
D	**Total WR Region**	**4,654.56**	**8,456.25**	**13,110.81**	**37392.7**	**21586.0**	**5759.1**	**6628.4**	**1126.9**	**4769.1**	**12524.4**
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
E	**Total ER Region**	**56.71**	**111.09**	**167.8**	**1319.6**	**679.1**	**204.3**	**206.2**	**57.9**	**153.4**	**417.6**
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
F	**Total NR Region**	**19.25**	**37.47**	**56.73**	**171.1**	**102.0**	**25.2**	**34.7**	**5.4**	**17.9**	**57.9**
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-1	225.45	389.67	615.12	1304.6	555.9	111.8	180.9	36.4	225.5	442.8
100	PFCCL	0	0	0	1597.5	671.7	435.7	171.0	110.9	76.4	358.3
G	**Total (IPPs)**	**2,047.62**	**3,950.91**	**5,998.53**	**24271.4**	**11317.2**	**6770.0**	**2279.3**	**1160.9**	**2122.2**	**5562.4**
101	DRE Solar	0	4130.27	4130.27	1847.7	1847.7	0.0	723.8	0.0	0.0	723.8
102	ISTS Solar				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	0	5374.03	5374.03	782.5	782.5	0.0	404.6	0.0	0.0	404.6
105	ISTS Wind				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						
		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		
107	Bio Mass/Bio gas/MSW	0	0	0	66.6	66.6	0.0	49.1	0.0	0.0	49.1
H	**Total Renewable Energy**	**0**	**9504.3**	**9504.3**	**23904.5**	**23904.5**	**0.0**	**8520.6**	**0.0**	**0.0**	**8520.6**
I	**IEX/Short Term Purchase**	**0**	**0**	**0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
J	**Total**	**11,547.51**	**28,147.43**	**39,694.95**	**1,26,030.8**	**83,801.7**	**17,297.2**	**23,931.6**	**3,566.9**	**11,565.8**	**39,064.3**

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		-	-
6	**Net Power Purchase Cost**	**11,566**	**27,264**	**38,830**
7	Inter-state Transmission Charges	3,367		3,367
8	MPPTCL Charges including SLDC Charges	6,356		6,356
9	**Total Power Purchase Cost**	**21,289**	**27,264**	**48,553**

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

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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

Eastern power

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

SCL
30/11

Andhra Pradesh Electricity Regulatory Commission
3280
30 NOV 2025
1 of 10

30th November 2025

	Generating Station	D Link	Variable Cost (Rs. / kWh)	Energy Dispatch (MU)												
				April	May	June	July	August	September	October	November	December	January	February	March	Total
	FY 2025-26															
	Generating Station	D Link	Variable Cost (Rs. / kWh)	Energy Dispatch (MU)												
				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	NET MU
MUST RUN																
	Srisailam 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
	Donkarayi			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
PABRHES	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)	Machkund 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)	TB Dam 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 (APRAPSCOM)			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 NPDCL (TSPCC)			0.00	0.00	0.00	1.28	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
SEMBCORP PROJECT-1 (625MW)	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 NNTPS			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. NTTPS-V	Dr.NTTPS 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
	HNPCL			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. NTTPS-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
	NTPL(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. NTTPS			232.10	214.06	189.49	183.83	204.74	177.13	242.85	220.06	206.67	200.03	205.54	221.41	2497.91
	RTPP Stage-IV			105.54	95.95	95.10	91.17	99.16	87.28	114.94	113.73	117.65	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)												
			April	May	June	July	August	September	October	November	December	January	February	March	Total
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	-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
Total Power Purchase MU			**2590.78**	**2500.18**	**2392.36**	**2493.60**	**2543.20**	**2390.96**	**2423.83**	**2418.30**	**2312.12**	**2325.79**	**2405.56**	**2649.94**	**29446.62**

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	-220.5	-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	8.1	-81.1	65.4	32.6	136.8	186.4	99.0	-313.0	-483.4	-636.4	-976.5	-921.8	-900.5	-844.9	-729.5	-580.3	-691.0	-763.3	163.9	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	-1292.7	-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	-552.7	-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	-638.2	-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	-328.8	-495.0	-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	107.0	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	-1402.8	-1067.5	-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	496.6	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	-486.6	-53.6	5.6	-21.7	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	-1208.9	-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	-104.3	-520.1	-838.1	-725.9	-673.7	-478.6	-271.8	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	-381.6	-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	-728.2	-473.8	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	-216.2	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	-54.1	-743.5	-1217.4	-1050.9	-2713.9	-2797.9	-2727.8	-2710.7	-2379.4	-1883.1	-1333.2	-1009.9	-250.3	82.0	56.3	50.2	-68.1	-232.8
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	-1701.8	-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	391.2	446.5	355.0	385.6	359.9	147.0	-444.6	-674.3	-1027.5	-1260.7	-1244.1	-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	-1200.7	-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	1227.9	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	-597.7	-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	1035.9
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	-807.1	-1121.4	-1255.3	-1127.6	-1071.3	-810.1	-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	626.2	534.5	521.2	230.7	-298.4	-528.5	-778.6	-969.8	-1020.7	-945.3	-952.5	-517.3	-347.0	-147.1	-213.4	-18.8	400.5	467.3	855.3	847.0	663.4
18-05-2026	410.4	220.1	115.1	-70.2	-5.1	-80.1	-243.1	-871.4	-1002.1	-1282.2	-1432.9	-1427.2	-1315.1	-1398.1	-1234.1	-965.2	-936.5	-616.9	-75.7	97.9	266.0	522.6	487.9	320.5
19-05-2026	331.1	134.2	57.0	-27.6	-106.5	-167.3	-500.2	-1074.3	-1411.5	-1669.0	-1866.1	-1751.3	-1874.0	-1961.8	-1595.1	-1198.6	-801.8	-833.7	-175.3	-12.4	126.5	349.0	403.1	210.6
20-05-2026	98.3	9.6	-127.3	-280.8	-444.2	-711.6	-1040.7	-1587.7	-1895.9	-2324.5	-2383.6	-2184.5	-2114.5	-1903.4	-1547.3	-1172.1	-972.2	-702.1	-100.3	-125.3	-153.2	32.1	38.9	-238.1
21-05-2026	-346.7	-465.0	-553.2	-586.0	-647.4	-581.6	164.4	-1400.2	-1547.2	-2010.0	-2194.8	-2120.6	-1913.8	-1871.4	-1569.5	-1237.0	-893.8	-396.7	295.5	245.1	166.0	115.6	-129.8	-211.8
22-05-2026	-430.1	-428.2	-607.2	-769.3	-928.0	-979.4	-1123.5	-1604.5	-1643.0	-1835.1	-2008.6	-1852.8	-1774.0	-1780.6	-1453.0	-1051.9	-729.2	-511.2	329.5	491.4	343.4	374.3	178.9	71.5
23-05-2026	-180.0	-473.2	-387.8	-335.3	-454.9	-603.5	-900.7	-1219.1	-1433.5	-1651.0	-1947.9	-1948.0	-1877.0	-1936.0	-1450.5	-1014.4	-739.3	-329.8	353.7	535.8	564.7	659.3	328.0	173.7
24-05-2026	61.1	-72.4	-293.6	-317.3	-346.8	-358.4	-970.3	-1663.8	-1779.6	-2102.3	-2097.1	-2040.2	-1925.3	-1882.5	-1456.6	-1048.4	-580.6	-362.9	385.4	480.2	783.4	925.3	564.7	325.9
25-05-2026	-314.6	-425.5	-343.2	-399.3	-485.0	-508.6	-779.2	-1413.7	-1650.1	-1909.8	-1938.7	-1836.9	-1607.1	-1569.8	-1278.2	-1102.2	-1076.6	-972.8	97.3	299.9	494.9	580.5	497.9	272.3
26-05-2026	24.3	111.1	110.3	-86.0	-128.3	-157.4	-472.7	-970.7	-1318.3	-1617.6	-1883.7	-1790.5	-1779.0	-1652.6	-1428.7	-1072.3	-1004.5	-698.3	104.5	454.3	499.7	638.9	531.2	194.4
27-05-2026	96.1	-45.8	-132.4	-160.2	-245.3	-305.7	-662.7	-1266.3	-1516.5	-1801.2	-2042.8	-1909.1	-1726.2	-1483.0	-1106.2	-914.9	-644.4	-442.5	117.1	307.8	306.4	367.8	272.8	-106.7
28-05-2026	-154.9	-318.0	-263.2	-367.7	-372.4	-502.2	-739.3	-1222.3	-1339.4	-1736.6	-2005.3	-1908.2	-1822.4	-1957.5	-1619.3	-1312.4	-914.2	-469.4	197.7	329.4	282.7	396.8	151.5	-138.8
29-05-2026	-293.5	-409.3	-500.6	-566.5	-571.0	-556.6	-849.5	-1503.8	-1522.7	-1667.0	-2010.4	-1947.3	-1815.2	-1807.0	-1443.4	-984.2	-829.8	-543.5	269.5	501.8	519.5	384.5	334.4	146.5
30-05-2026	-144.1	-363.1	-189.2	-72.3	-133.7	-194.2	-537.8	-1248.7	-1543.4	-1722.5	-1857.8	-1645.7	-1619.7	-1441.8	-1018.9	-838.5	-477.6	-255.4	462.7	660.4	698.3	864.8	645.3	394.3

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
31-05-2026	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	-1432.4	-1346.2	-1058.9	-669.8	-314.2	-280.2	-30.4	272.8	795.6	962.1	1269.8	1368.5	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	1250.5	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	-168.7	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	-807.2	-1004.8	-974.3	-917.5	-828.2	-720.0	-408.4	-54.7	-542.5	-501.8	-16.7	198.8	411.1	644.4	643.6	316.7
08-06-2026	254.9	263.5	210.0	111.5	23.2	-44.5	-448.3	-892.5	-1041.5	-1237.4	-1252.7	-967.8	-940.6	-830.6	-510.5	-261.3	-84.4	-146.4	427.7	599.9	1033.8	1019.2	1084.4	817.2
09-06-2026	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
10-06-2026	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	257.1	343.9	482.2	454.4	505.3
11-06-2026	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	-805.2	-47.2	189.4	502.2	886.7	469.0	435.5
12-06-2026	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	-700.3	128.7	113.5	392.1	557.8	563.9	309.3
13-06-2026	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
14-06-2026	328.8	261.9	145.7	294.7	238.2	84.8	-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	48.7	172.3	347.5	322.9	187.8
15-06-2026	148.9	234.7	204.9	24.8	-36.0	-219.8	-456.1	-974.6	-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
16-06-2026	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
17-06-2026	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
18-06-2026	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
19-06-2026	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	-899.8	-887.9	-550.5	-263.2	361.8	674.0	702.8	703.2	787.4	702.6
20-06-2026	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
21-06-2026	753.8	663.2	406.8	308.3	330.8	258.1	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
22-06-2026	748.5	385.1	380.2	390.9	435.8	139.0	-244.6	-785.1	-1195.8	-1270.2	-1456.5	-1439.4	-1424.2	-1487.8	-1237.8	-886.9	-586.1	-345.3	172.3	497.0	289.2	224.3	281.5	223.0
23-06-2026	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
24-06-2026	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
25-06-2026	84.0	32.7	-96.5	-235.0	-142.9	-48.0	-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	151.0	-1.6	133.5
26-06-2026	-160.7	-208.2	-234.0	-218.7	-69.0	-79.6	-166.0	-465.9	-781.8	-1425.0	-1662.2	-1728.0	-1702.8	-1667.7	-1344.5	-1106.3	-751.6	-306.0	504.9	635.6	644.1	684.3	549.5	110.4
27-06-2026	-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
28-06-2026	122.8	-110.6	-74.5	156.5	85.4	290.6	248.9	-274.3	-605.5	-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
29-06-2026	847.0	511.1	513.6	337.3	292.1	226.9	36.5	-378.7	-624.1	-969.7	-1245.6	-1380.5	-1362.8	-1373.7	-1116.9	-812.7	-580.7	-283.9	444.9	762.0	818.9	700.8	368.7	-154.0
30-06-2026	-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
01-07-2026	-774.4	-91.8	-867.5	-730.0	-534.0	-539.1	-554.8	-992.5	-1664.4	-1815.8	-2121.9	-2297.5	-2130.2	-2179.1	-1981.6	-1482.8	-1139.2	192.3	-276.7	-174.3	-48.8	-389.4	-523.9	-662.0
02-07-2026	-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
03-07-2026	-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
04-07-2026	-861.5	-897.9	-1082.5	-987.7	-889.2	-819.6	-755.3	-1096.0	-1650.4	-2058.6	-2361.5	-2366.9	-2345.3	-2439.0	-2091.8	-1785.9	-1409.4	-967.6	-620.9	-444.3	-352.3	-230.2	-252.3	-629.2
05-07-2026	-438.6	-431.9	-438.7	-490.8	-495.7	-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
06-07-2026	-112.5	-226.0	-237.3	-382.9	-385.8	-444.1	-423.4	-1116.0	-1339.6	-1741.6	-2132.7	-1934.1	-1926.8	-1662.9	-1707.6	-1483.8	-1340.6	-1208.9	-594.8	-377.0	-236.6	-69.3	-127.7	-255.7
07-07-2026	-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
08-07-2026	-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	-2328.7	-1909.5	-1497.4	-1395.8	-904.3	-498.7	-349.9	-114.1	174.1	81.8	-26.8
09-07-2026	-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	-741.5	-620.1	-40.4	67.9	235.2	507.3	409.7	234.8
10-07-2026	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	-461.9	-242.5	279.3	197.9	497.3	612.7	439.5
11-07-2026	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
12-07-2026	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	-203.6	-181.5	-759.6	-21.0	350.7	669.0	968.4	858.7	755.1
13-07-2026	758.6	566.3	415.2	190.7	109.0	76.2	-111.5	-500.8	-804.4	-1067.0	-1103.1	-895.7	-816.9	-673.0	-566.5	-344.2	-445.0	-507.9	-12.3	356.3	444.7	717.5	609.3	447.5
14-07-2026	456.3	239.1	56.3	126.0	175.8	108.5	62.4	-460.0	-584.3	-921.7	-1209.3	-1114.0	-943.1	-829.8	-453.0	-305.6	-4.2	-277.7	135.0	326.7	629.0	875.5	863.2	778.7
15-07-2026	725.2	620.3	414.9	134.3	250.6	130.1	93.3	-261.9	-417.1	-638.9	-1208.9	-1163.2	-1010.3	-774.7	-391.7	-148.9	-26.0	-147.9	89.7	449.4	816.1	1141.1	1074.5	804.0
16-07-2026	486.4	480.5	369.0	229.7	252.7	185.9	147.6	-249.9	-397.2	-726.3	-833.1	-912.1	-720.1	-548.9	-113.2	-9.1	178.0	-296.5	142.6	606.0	855.7	1303.4	1214.9	897.1
17-07-2026	773.3	522.0	463.9	464.9	499.4	343.3	190.5	-135.5	-736.4	-794.2	-980.8	-1050.9	-800.0	-814.4	-665.3	-419.9	-346.5	-422.4	-84.4	436.6	707.6	1079.9	937.9	821.7
18-07-2026	751.3	398.1	473.2	390.7	364.1	348.5	308.4	-183.2	-593.6	-1114.9	-1271.7	-1426.2	-1300.4	-960.9	-480.6	376.5	-66.5	-163.3	527.9	615.5	780.0	945.4	929.1	730.5
19-07-2026	600.3	543.7	418.9	283.1	246.4	256.3	209.7	-125.2	-456.5	-687.9	-856.9	-803.3	-727.5	-880.5	-725.9	-414.5	-453.0	-324.6	315.1	669.5	393.0	774.9	763.8	578.1
20-07-2026	333.6	403.4	432.4	396.4	401.0	289.2	112.1	-221.4	-557.9	-869.8	-1057.0	-1040.5	-965.8	-938.0	-617.7	-427.8	-314.0	-272.7	459.2	702.3	770.4	721.3	348.6	151.6
21-07-2026	204.6	227.7	235.5	217.1	207.8	367.1	81.1	-304.5	-584.4	-897.0	-1004.2	-1081.4	-1199.4	-1212.3	-917.8	-607.0	-497.2	-131.1	400.7	650.7	597.5	536.9	583.9	532.0
22-07-2026	309.7	139.7	77.9	182.4	96.5	11.1	44.6	-481.5	-851.3	-967.6	-1285.2	-1423.4	-1231.4	-1266.3	-1067.5	-798.9	-618.8	-228.7	330.4	613.1	780.9	677.6	496.8	365.1
23-07-2026	205.2	87.1	212.6	123.3	15.9	46.1	99.3	-306.5	-746.9	-1133.5	-1402.1	-1595.9	-1621.9	-1631.6	-1376.6	-1020.5	-729.2	-258.0	343.8	603.2	616.7	700.2	609.3	399.8
24-07-2026	380.5	251.4	132.8	-85.5	-38.4	-202.5	-189.1	-415.9	-794.9	-1129.1	-1538.1	-1675.4	-1656.9	-1648.0	-1620.5	-1457.4	-1167.3	-557.1	110.1	258.7	114.6	241.3	144.3	-55.2
25-07-2026	-210.8	-316.9	-307.5	-346.8	-300.3	-243.4	-225.1	-502.0	-924.2	-1317.1	-1671.4	-1862.4	-1776.7	-2023.5	-1550.4	-1150.5	-854.5	-386.9	233.7	479.7	420.2	302.8	91.1	-17.6
26-07-2026	-213.6	-439.6	-503.3	-560.9	-517.9	-549.4	-509.5	-937.9	-1313.4	-1614.2	-2037.3	-2142.7	-2124.8	-2407.3	-1917.8	-1583.8	-1441.8	-958.0	-194.0	83.7	-82.2	-106.6	-234.3	-592.3
27-07-2026	-537.8	-693.0	-585.0	-779.8	-626.9	-702.9	-640.1	-1018.9	-1421.2	-1677.1	-1895.6	-2021.5	-1931.0	-1819.4	-1499.6	-1127.0	-839.1	-765.4	-380.5	-124.4	20.3	311.3	252.9	-48.8
28-07-2026	-17.7	-176.9	-389.8	-380.7	-414.2	-397.2	-510.3	-820.3	-1020.4	-1308.8	-1645.0	-1582.0	-1484.8	-1443.4	-986.9	-654.9	-419.4	-230.5	288.2	502.9	642.0	849.4	640.7	421.8
29-07-2026	248.8	-39.4	202.4	138.1	167.6	226.9	179.9	-442.8	-657.9	-900.7	-1347.0	-1293.7	-1322.6	-1302.1	-922.5	-491.3	-279.4	-247.3	341.8	668.8	598.3	807.0	482.4	208.5
30-07-2026	416.5	253.6	180.9	162.8	214.4	116.4	100.3	-474.9	-554.6	-976.7	-1180.6	-1143.0	-1099.9	-993.7	-683.2	-476.0	-343.5	-395.6	277.6	545.3	564.9	1097.6	919.1	875.4
31-07-2026	665.8	390.2	349.2	277.2	176.1	202.1	50.9	-366.5	-649.2	-833.7	-1048.9	-1152.3	-1082.2	-1160.9	-603.9	-337.2	-252.8	-472.8	111.2	389.1	572.3	738.3	767.9	421.4

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	-1275.7	-1058.7	-1189.1	-916.5	-655.8	-655.5	-544.4	-348.5	-113.0	-57.5	377.8	312.3	568.2
05-08-2026	266.2	220.1	77.6	52.2	-71.0	-257.8	-365.9	-932.9	-1074.8	-1479.2	-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	-1413.7	-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	-1783.8	-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	-1373.5	-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	-1145.6	-822.7	-927.8	-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	-1898.2	-1508.9	-1177.8	-1150.8	-560.5	-421.7	-323.2	-29.8	59.0	-202.6
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	-760.6	-793.0	-1394.7	-1797.7	-2148.9	-2300.6	-2145.6	-2087.1	-2184.0	-2016.8	-1730.2	-1477.3	-1232.5	-587.6	-475.8	-279.0	-449.5	-392.3	-559.2
14-08-2026	-519.5	-845.6	-874.9	-862.5	-893.4	-774.3	-937.1	-1447.6	-1911.5	-2302.9	-2493.4	-2452.6	-2596.1	-2601.9	-2406.8	-2116.7	-1604.8	-1301.0	-420.8	-447.5	-373.5	-204.9	-239.6	-290.1
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	-2028.6	-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	-2269.6	-2520.5	-2439.3	-2320.6	-2285.2	-2070.8	-1864.6	-1419.1	-1317.8	-476.3	-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	-2122.2	-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	-2322.1	-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	-1485.9	-1313.0	-1124.3	-804.9	-85.9	55.9	393.4	433.2	332.9	274.8
24-08-2026	188.6	0.3	12.5	31.7	-16.2	-139.1	-218.5	-626.7	-829.4	-1151.0	-1613.6	-1537.5	-1608.6	-1561.0	-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	-396.6	-376.2	-323.2	-766.5	-1122.8	-1452.6	-1704.6	-1771.5	-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	-2156.6	-2242.8	-2203.5	-2359.1	-2082.9	-1828.8	-1531.0	-725.9	-212.1	-343.2	-302.7	-436.0	-675.8	-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	-2309.7	-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	-416.2	-559.2	-539.0	-434.6	-429.8	-468.4	-543.3	-856.2	-1314.9	-1728.3	-2181.4	-2078.9	-1983.4	-2016.6	-1698.9	-1392.1	-1175.0	-720.9	-85.7	-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	-1027.9	-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	-1635.0	-1737.5	-1491.1	-1161.6	-858.6	-802.2	-308.7	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	-1277.9	-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	-766.3	-518.4	268.0	270.4	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	-966.0	-624.4	-11.5	443.5	384.9	521.8	608.1	608.4	359.7
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	-965.0	-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	-1699.0	-1869.5	-1730.6	-1744.5	-1548.7	-1451.1	-1190.5	-827.8	-354.3	-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	-1175.0	-902.7	-324.0	343.2	230.2	182.3	34.3	1.6	-101.2
16-09-2026	-368.2	-249.6	-342.9	-320.6	-390.4	-261.7	-424.2	-977.2	-1416.7	-1679.9	-2084.5	-2041.8	-2001.4	-1957.5	-1711.5	-1331.7	-844.2	-260.5	156.4	329.7	277.0	200.9	87.8	-167.5
17-09-2026	-185.1	-424.4	-470.4	-382.2	-382.9	-408.8	-437.0	-911.1	-1378.0	-1662.9	-1987.1	-2036.3	-1916.8	-1935.2	-1688.1	-1266.6	-809.3	-649.5	47.7	150.7	390.8	439.7	293.3	123.7
18-09-2026	-152.3	-129.6	-121.6	-284.1	-386.0	-440.9	-668.0	-1218.1	-1573.8	-1843.0	-2073.8	-1933.0	-1705.6	-2010.1	-1787.9	-1491.2	-931.2	-642.7	172.3	80.1	78.3	140.6	126.3	-4.1
19-09-2026	-240.9	-208.1	-60.9	-122.7	38.6	11.6	-94.7	-571.6	-1067.8	-1294.9	-1563.3	-1514.0	-1304.7	-1169.5	-844.2	-412.8	-117.6	170.1	670.2	584.9	720.0	852.4	1090.4	916.6
20-09-2026	566.4	371.1	288.4	191.7	197.9	235.5	131.2	-450.2	-928.5	-1383.2	-1717.8	-1604.3	-1596.4	-1339.8	-997.9	-855.7	-941.5	-712.6	-459.7	-369.1	-165.0	-205.8	-136.1	68.9
21-09-2026	32.0	-86.7	-123.8	-187.2	-233.4	-321.8	-514.3	-992.3	-1287.4	-1611.0	-1698.9	-1673.9	-1657.9	-1686.9	-1426.5	-1151.9	-905.2	-847.1	-250.9	-595.8	-403.4	-252.1	-231.3	-280.4
22-09-2026	-288.4	-320.1	-222.4	-343.2	-335.3	-368.4	-393.8	-950.5	-1198.8	-1363.4	-1728.5	-1603.4	-1682.5	-1520.6	-1559.3	-1309.5	-1063.0	-751.1	-109.7	-50.2	29.6	136.7	234.8	0.4
23-09-2026	15.5	-101.1	-252.3	-202.7	-211.9	-132.6	-205.7	-738.0	-1127.4	-1478.5	-1821.4	-1834.6	-1871.2	-1940.9	-2021.2	-1571.1	-1401.4	-657.8	-35.7	-91.1	146.8	108.6	91.3	169.0
24-09-2026	156.0	109.6	90.4	-22.3	2.9	92.3	-12.8	-628.6	-1126.3	-1592.5	-1760.2	-1828.0	-1711.2	-1685.1	-1318.4	-947.8	-427.8	-6.4	467.3	497.0	527.4	65.7	149.1	182.5
25-09-2026	81.5	-57.2	-104.5	-63.7	-46.7	-16.4	-35.2	-657.9	-934.1	-1239.9	-1500.6	-1809.5	-1782.0	-1776.7	-1529.5	-1030.3	-655.1	-133.7	355.8	405.8	399.2	439.9	296.1	-7.9
26-09-2026	-285.8	-353.9	-294.5	-252.6	-133.7	-150.5	-206.2	-762.8	-1023.1	-1484.4	-1768.5	-1778.7	-1817.3	-1680.8	-1318.7	-928.3	-608.8	-275.4	314.8	351.6	338.8	443.0	297.1	207.7
27-09-2026	-82.1	-286.6	-288.0	-235.8	-199.4	-161.8	-221.9	-750.9	-1093.9	-1647.4	-1864.9	-2019.4	-1929.8	-1741.8	-1275.6	-927.9	-615.7	-34.6	517.7	338.1	367.6	345.8	346.4	350.0
28-09-2026	148.2	146.0	-45.8	-69.8	-2.3	32.4	-81.9	-618.4	-893.1	-1322.8	-1550.1	-1589.8	-1593.6	-1569.8	-1353.1	-923.6	-560.5	-265.1	338.4	435.6	628.4	709.5	530.0	414.9
29-09-2026	385.7	184.4	63.0	-18.4	-6.7	49.1	3.7	-604.9	-911.6	-1448.0	-1603.6	-1547.6	-1561.7	-1027.1	-1065.9	-593.3	-413.1	119.3	652.2	531.4	526.8	530.4	351.4	218.4
30-09-2026	120.6	167.1	-14.2	-153.9	48.8	250.8	44.4	-564.1	-784.7	-1100.1	-1354.9	-1338.8	-1308.0	-1322.5	-1028.2	-712.2	-481.3	31.1	429.9	423.2	454.0	234.6	180.9	86.8

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	-515.0	-455.6	-516.2	-506.3	-487.7	-997.7	-1261.2	-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	-601.3	-963.7	-1412.8	-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	-682.8	-484.6	-238.1	208.0	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	-232.7	-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	-316.9	-188.4	26.9	142.9	-19.1	-630.0	-793.7	-1232.5	-1439.5	-1422.1	-1387.3	-1246.2	-823.5	-482.5	24.4	553.5	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	-2344.0	-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	-2237.4	-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	242.6
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	600.8	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	-1972.0	-1880.0	-1805.8	-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	-651.6	276.0	428.0	275.6	455.5	192.4	-64.4	-120.1
24-10-2026	-221.4	-332.3	-401.8	-387.8	-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	-2876.0	-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	-2145.5	-1779.4	-1379.7	-854.6	18.0	397.9	283.2	313.5	200.6	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	-1841.8	-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	218.6	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	-576.4	-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	-1484.9	-1409.1	-1003.4	-557.5	-313.7	36.6	281.7	389.6	356.5	304.4	292.0	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	-818.7	-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	47.1	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	-70.7	-20.4	111.6	96.6	64.2	-376.1	-903.2	-989.3	-1305.1	-1337.2	-1248.6	-1315.6	-965.8	-518.4	-216.8	138.9	413.9	472.6	477.4	564.4	463.2	333.4
17-11-2026	286.7	269.7	251.6	205.7	204.1	57.8	-69.5	-561.3	-921.3	-932.8	-1320.8	-1381.9	-1305.9	-1229.7	-945.0	-434.1	-80.4	202.9	330.4	212.9	-74.7	205.7	186.9	46.5
18-11-2026	6.7	58.7	66.9	51.7	186.7	161.5	147.9	-390.3	-820.9	-927.0	-1368.1	-1298.2	-1218.2	-1250.9	-837.1	-430.3	-187.4	103.4	239.2	209.2	30.5	39.8	-78.9	-226.0
19-11-2026	-231.6	-303.5	-242.5	-202.6	-123.2	-11.9	94.4	-383.0	-811.9	-1056.6	-1488.5	-1536.8	-1461.5	-1518.8	-1020.3	-708.1	-416.7	9.3	164.5	115.3	44.7	-52.2	-75.1	-243.9
20-11-2026	-143.9	-126.4	-147.0	-208.7	-181.3	-102.0	-22.0	-460.3	-856.2	-922.5	-1352.7	-1320.3	-1366.3	-1371.2	-936.1	-559.6	-172.1	242.6	391.0	348.0	216.3	194.8	111.3	-43.1
21-11-2026	-152.2	-182.2	-175.6	-275.6	-104.4	33.0	135.2	-404.7	-860.9	-822.1	-1162.0	-1336.4	-1332.8	-1241.4	-955.4	-599.5	-271.3	77.8	245.9	179.7	67.6	-33.9	-185.5	-269.9
22-11-2026	-246.8	-302.3	-204.4	-248.1	-159.8	1.0	94.5	-322.5	-853.6	-1013.6	-1462.6	-1533.1	-1520.7	-1461.1	-934.2	-527.4	-202.2	181.7	342.8	320.2	349.3	114.8	-54.0	-165.0
23-11-2026	-126.5	-166.3	-218.2	-165.3	-99.4	100.1	172.7	-210.7	-778.3	-783.8	-1333.4	-1395.3	-1375.8	-1491.4	-1069.8	-611.1	-242.4	287.4	341.5	367.0	339.2	257.8	36.4	-98.7
24-11-2026	-68.4	-116.5	-48.8	-48.8	34.8	12.6	81.1	-408.8	-816.5	-987.8	-1387.6	-1441.7	-1296.2	-1337.5	-1038.9	-556.0	-272.5	82.6	373.2	252.3	133.2	34.7	130.6	-15.3
25-11-2026	-49.0	-153.1	-178.3	-187.4	-75.9	-69.3	-17.3	-392.5	-870.9	-939.0	-1519.4	-1462.5	-1462.1	-1548.3	-1167.8	-894.8	-532.5	-159.3	59.0	212.4	139.0	-7.6	-156.0	-201.1
26-11-2026	-282.6	-395.1	-473.7	-434.5	-246.5	-113.8	-70.1	-495.4	-1092.3	-1198.6	-1637.5	-1865.4	-1719.6	-1658.3	-1305.3	-822.0	-453.7	-233.0	152.7	100.1	25.9	163.8	13.7	-100.6
27-11-2026	-88.6	-141.1	-140.5	-151.8	-141.3	103.6	89.5	-544.0	-1067.0	-1124.8	-1614.2	-1553.2	-1485.9	-1597.2	-1180.9	-866.6	-578.3	-183.4	-8.1	91.0	139.0	-46.9	-83.0	-192.5
28-11-2026	-52.2	-78.3	-131.9	-157.0	-98.3	5.0	73.5	-307.1	-739.7	-776.1	-1352.3	-1331.9	-1405.2	-1487.3	-918.3	-488.8	-178.7	220.3	227.7	284.6	121.3	51.8	-83.5	-232.0
29-11-2026	-96.3	-51.4	-156.2	-148.6	-32.6	29.9	83.9	-310.5	-781.8	-994.0	-1585.3	-1528.5	-1563.3	-1569.0	-1078.6	-659.8	-368.6	22.2	178.0	290.6	146.9	61.9	-72.2	-236.7
30-11-2026	-255.2	-301.5	-394.9	-408.6	-290.9	-151.9	45.8	-331.5	-1020.6	-1107.7	-1786.1	-2042.1	-2027.6	-2164.6	-1693.9	-1171.9	-508.9	147.2	307.0	213.9	25.1	-70.7	-213.4	-333.9

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	-2198.4	-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	-1793.0	-1123.5	-479.5	-26.1	338.7	197.3	134.3	52.6	-98.2	-169.2
06-12-2026	-249.4	-217.0	-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	-1320.6	-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	-61.5	-120.5	-541.5	-1340.7	-1636.3	-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	-1638.1	-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	-2385.6	-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	-2565.8	-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	-380.0	-447.6	-357.7	-374.3	-316.2	-137.6	-88.1	-501.5	-1127.8	-1711.6	-2205.7	-2565.5	-2489.0	-2495.2	-1980.6	-1441.9	-831.7	-275.5	14.9	138.8	-88.9	-284.8	-365.8	-481.1
23-12-2026	-560.3	-520.9	-551.9	-521.5	-396.6	-230.0	75.2	-254.9	-1145.6	-1580.9	-2158.5	-2151.5	-2244.3	-2310.0	-1839.4	-1262.7	-824.2	-234.1	-48.9	-72.8	-241.9	-331.3	-480.1	-667.3
24-12-2026	-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
25-12-2026	-714.4	-686.1	-744.4	-814.6	-735.8	-588.9	-348.4	-529.1	-1152.2	-1752.5	-2410.2	-2618.4	-2621.2	-2672.0	-2139.8	-1613.0	-1054.7	-446.0	-128.1	-182.3	-268.2	-360.4	-526.1	-629.6
26-12-2026	-619.3	-593.5	-521.8	-523.5	-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	111.9	137.1	110.9	29.3	-139.3	-301.2
27-12-2026	-289.3	-407.7	-442.9	-414.7	-387.9	-108.5	100.9	-208.2	-1033.9	-1666.6	-2268.2	-2656.2	-2590.9	-2683.5	-2064.2	-1339.1	-696.7	-100.2	332.9	307.2	122.9	-95.0	-255.4	-463.6
28-12-2026	-493.7	-484.7	-438.0	-374.6	-344.5	-140.5	75.3	-311.5	-800.8	-1436.2	-2083.6	-2309.4	-2291.0	-2247.7	-1830.5	-1269.0	-625.5	47.1	262.7	258.6	219.0	-0.5	-278.2	-386.0
29-12-2026	-418.6	-481.8	-446.8	-411.3	-365.9	-200.9	-203.0	-595.8	-1113.7	-1573.0	-2048.2	-2218.2	-2169.3	-2214.2	-1825.6	-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	-506.5	-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	-791.8	-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	-192.1
06-01-2027	-258.2	-312.6	-305.2	-266.0	-123.1	24.4	307.0	169.7	-692.7	-990.6	-1616.0	-1837.1	-1780.2	-1923.3	-1562.7	-1131.3	-639.8	-125.5	420.8	373.8	229.2	-18.0	-138.4	-403.4
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	-373.9	-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	-270.5
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	-39.7	46.8	22.2	-134.3	-363.6	-453.6
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	-537.0
16-01-2027	-585.4	-500.9	-345.5	-344.4	-332.0	-244.9	-78.0	-353.2	-705.2	-1114.5	-1752.7	-1964.2	-1920.2	-2106.1	-1873.8	-1326.0	-835.0	-257.3	31.3	-30.6	-99.9	-292.6	-359.4	-550.8
17-01-2027	-610.0	-543.9	-385.6	-398.3	-263.8	-89.8	103.0	-128.6	-621.7	-1210.8	-1727.8	-1922.3	-1947.5	-2044.3	-1776.2	-1335.3	-776.6	-304.7	46.1	-110.1	-260.8	-368.8	-406.0	-567.8
18-01-2027	-554.1	-447.5	-361.0	-307.3	-184.9	42.0	60.8	-237.3	-647.7	-960.7	-1695.2	-1925.2	-1796.6	-1978.4	-1743.9	-1219.4	-829.9	-586.9	128.7	180.6	128.2	41.1	-195.5	-231.8
19-01-2027	-300.4	-301.0	-250.9	-227.2	-94.0	2.0	109.7	-186.1	-562.3	-897.8	-1534.1	-1801.1	-1660.4	-1904.0	-1690.9	-1008.6	-526.4	-245.6	248.9	183.9	182.1	63.8	6.2	-151.3
20-01-2027	-71.8	-212.3	-150.8	-191.1	-95.0	78.5	328.5	50.6	-545.6	-652.5	-1396.2	-1663.7	-1661.2	-1659.4	-1315.6	-806.3	-312.5	-176.1	498.1	401.8	337.1	146.7	-154.5	-265.6
21-01-2027	-230.3	-209.4	-234.2	-208.3	-108.5	66.1	310.1	8.2	-578.3	-754.2	-1478.2	-1781.9	-1674.8	-1761.8	-1417.3	-918.0	-458.6	-268.3	391.1	463.6	230.1	163.5	-53.7	-196.3
22-01-2027	-184.6	-227.9	-211.1	-231.3	-99.6	86.9	422.8	75.2	-516.0	-688.4	-1308.2	-1683.1	-1591.1	-1779.9	-1387.7	-863.4	-418.2	-102.2	400.9	295.8	236.5	141.3	-138.0	-360.8
23-01-2027	-386.7	-357.7	-306.7	-281.5	-191.1	111.7	428.2	107.1	-455.6	-750.0	-1530.3	-1754.2	-1642.2	-1701.4	-1342.5	-892.3	-373.7	-105.2	491.8	359.2	216.5	104.8	-238.0	-395.0
24-01-2027	-416.9	-429.9	-382.5	-271.2	-220.5	-49.5	113.3	72.7	-669.7	-1066.6	-1799.1	-2005.7	-2011.3	-2035.4	-1537.7	-1082.2	-359.7	-105.6	375.4	401.4	371.1	182.5	10.8	-212.3
25-01-2027	-292.2	-276.7	-275.0	-250.6	-174.2	-3.0	405.6	49.5	-338.1	-614.8	-1450.3	-1738.6	-1705.3	-1843.5	-1647.6	-1086.2	-575.2	-198.2	429.7	374.8	311.4	131.5	-64.6	-182.1
26-01-2027	-185.9	-318.8	-390.7	-329.8	-162.9	52.7	256.2	73.7	-381.2	-708.8	-1389.6	-1604.7	-1609.4	-1861.1	-1428.5	-1136.6	-589.8	-364.2	327.6	67.1	-14.2	-14.4	-127.5	-264.3
27-01-2027	-453.3	-426.0	-523.5	-311.3	-121.7	84.9	327.3	149.1	-465.0	-641.4	-1475.8	-1808.9	-1756.0	-1992.8	-1534.1	-1088.7	-586.8	-266.3	271.2	185.0	96.1	-32.1	-288.1	-261.9
28-01-2027	-299.1	-250.1	-240.3	-152.5	-82.4	135.2	399.3	75.5	-497.8	-857.8	-1583.0	-1793.9	-1639.0	-1873.8	-1506.6	-1053.7	-542.8	-267.6	302.8	266.4	321.7	181.8	23.6	-121.2
29-01-2027	-175.0	-262.4	-156.6	-57.0	98.3	271.4	527.5	144.7	-450.3	-780.8	-1409.9	-1556.0	-1427.2	-1612.7	-1324.4	-820.7	-344.6	-55.2	592.1	518.8	211.4	304.5	-87.2	-236.6
30-01-2027	-258.2	733.6	843.1	-98.6	83.4	302.6	614.0	198.0	-380.6	-654.0	-1436.6	-1731.0	-1556.0	-1764.9	-1451.2	-925.1	-424.1	-93.7	473.7	462.6	351.0	214.8	47.9	-132.5
31-01-2027	-90.6	-78.6	-124.1	-149.4	42.5	255.4	556.8	97.1	-532.9	-1191.1	-1950.6	-2090.5	-1961.8	-2060.1	-1530.8	-1060.6	-515.6	-5.0	437.3	352.6	346.1	164.1	77.7	-24.7

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
01-02-2027	-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	-1534.2	-1589.2	-1633.6	-1796.8	-1566.5	-923.9	-581.4	-369.4	647.2	438.0	418.9	252.7	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	-1494.0	-1614.0	-1591.2	-1706.8	-1382.7	-827.2	-463.8	-157.0	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	-1550.6	-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	747.2	374.9	-259.9	-471.7	-1136.1	-1260.3	-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	100.5	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	-1392.1	-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	824.7	656.7	662.7	457.5	478.0	426.4
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	-1381.2	-1600.1	-1288.3	-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	-653.5	-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	311.7	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	770.3	794.7	781.3	231.6	32.7	-602.7	-1235.5	-1303.7	-1219.3	-1398.0	-1231.7	-685.1	-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	889.6	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	314.2	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	-1473.1	-1643.4	-1155.4	-621.2	-197.7	-43.2	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	405.5	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	-1252.4	-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	601.5	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	-472.8	-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	-1073.9	-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	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	-727.7	-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	835.3	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	643.2	500.7	695.2	864.8	1011.5	784.5
19-03-2027	446.1	383.3	323.0	321.2	558.2	640.4	705.3	283.8	-29.4	-486.6	-1027.0	-1211.9	-1317.2	-1424.8	-1044.7	-507.9	-82.9	24.9	740.5	595.5	534.1	688.6	725.9	540.6
20-03-2027	361.2	214.0	307.7	529.4	592.2	389.3	539.3	42.2	-63.4	-642.9	-1138.0	-1349.2	-1324.1	-1325.8	-1010.3	-337.7	-25.0	52.1	611.0	495.5	446.3	706.5	828.7	615.2
21-03-2027	374.8	257.4	302.4	384.6	607.8	736.5	673.8	114.3	-277.0	-746.7	-1295.2	-1378.5	-1396.6	-1478.8	-917.6	-427.2	-213.1	-13.6	638.1	453.7	499.2	667.0	748.8	663.0
22-03-2027	356.3	246.9	237.9	451.9	617.6	693.3	704.6	137.9	-154.6	-632.6	-1302.6	-1394.9	-1267.7	-1468.6	-1145.6	-614.9	-353.5	-245.3	590.8	473.7	497.8	555.0	650.0	601.5
23-03-2027	333.0	291.3	295.4	406.9	538.3	645.1	658.2	129.4	-88.0	-662.5	-1270.4	-1396.0	-1298.8	-1353.2	-1035.5	-422.0	-191.1	-84.3	544.8	322.3	490.1	652.8	735.2	658.8
24-03-2027	544.7	412.5	296.3	313.6	514.4	575.2	593.2	106.5	-196.1	-667.3	-1341.1	-1495.1	-1483.8	-1518.5	-1133.4	-565.0	-170.2	-44.0	599.6	511.6	564.5	738.2	844.2	697.2
25-03-2027	482.3	446.7	458.3	475.2	575.7	656.1	658.5	85.5	-169.2	-732.3	-1303.2	-1525.9	-1504.0	-1487.4	-1107.3	-560.3	-313.5	-151.8	569.2	575.7	406.0	637.7	775.6	692.7
26-03-2027	439.1	380.5	351.5	481.5	591.8	599.0	550.8	48.4	-89.9	-693.0	-1261.3	-1493.6	-1501.5	-1527.7	-1071.0	-572.8	-202.7	-98.4	704.8	643.5	676.6	861.8	881.2	870.9
27-03-2027	590.2	517.5	499.3	510.1	784.3	812.4	769.7	233.0	-99.6	-591.6	-1232.1	-1406.9	-1358.4	-1347.2	-953.4	-390.3	-87.0	45.4	846.9	800.8	758.4	927.6	1013.2	874.0
28-03-2027	626.6	540.8	485.6	540.4	675.5	636.9	578.7	62.4	-254.3	-739.2	-1074.5	-1229.9	-1048.4	-1131.8	-699.4	-170.8	178.6	271.2	1081.0	1011.2	1113.3	1301.0	1289.2	1214.3
29-03-2027	816.5	698.7	651.4	662.6	734.1	846.4	832.0	260.0	-179.6	-620.1	-1089.4	-1282.8	-1247.4	-1252.7	-821.0	-130.5	61.8	308.3	956.6	876.6	1021.3	1146.8	1263.7	1157.9
30-03-2027	714.9	544.8	335.4	289.3	339.9	372.3	324.9	-303.0	-580.7	-1074.1	-1445.9	-1331.5	-1313.1	-1221.0	-784.9	-151.2	-27.3	-3.1	710.9	710.6	890.9	1150.8	1151.4	922.7
31-03-2027	558.6	455.3	403.2	357.5	485.8	558.3	499.5	62.0	-288.6	-852.0	-1470.7	-1425.2	-1507.3	-1476.9	-914.2	-349.9	95.5	119.8	923.6	829.3	1038.2	1181.9	892.7	642.1

Appendix -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

SCL
SDA
30/11/2025

30th November 2025

Appendix -4

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

29th **November 2025**

Appendix-5

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
Decapitilisation	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 Depreciation	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
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**

Capital Expenditure

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
Opening GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Addition	Rs Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapitilisation	Rs Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Closing GFA	Rs Cr	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Depreciation

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
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
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
Depreciation Rate	%	5.83%	5.83%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%
Balance useful life	Years	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Current Year Depreciation	Rs Cr	2.88	2.71	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
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
Average Accumulated Depreciation	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
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

Interest on Loan

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
Opening Loan	Rs Cr	29.34	26.46	23.75	20.39	17.02	13.66	10.29	6.92	3.56						
Repayment during the year	Rs Cr	2.88	2.71	3.37	3.37	3.37	3.37	3.37	3.37	3.37						
Closing Loan	Rs Cr	26.46	23.75	20.39	17.02	13.66	10.29	6.92	3.56	0.19						
Average Loan	Rs Cr	27.90	25.11	22.07	18.70	15.34	11.97	8.61	5.24	1.88						

Return on Equity

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
Gross Fixed Asset	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
Average Equity	Rs Cr	30.00	30.00	30.00	30.00	30.00	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	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
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
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
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	4.20	4.20	4.20	4.20	4.20
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
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	0.00	0.00	0.00	0.00	0.00

Annual Fixed Cost

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	Total
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	4.20	4.20	4.20	4.20	4.20	105.60
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	49.08
Depreciation	Rs Cr	2.88	2.71	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	90.00
Annual Fixed Cost	**Rs Cr**	**9.31**	**8.92**	**9.33**	**9.06**	**8.79**	**8.52**	**8.25**	**7.98**	**7.72**	**7.57**	**7.57**	**7.57**	**7.57**	**7.57**	**7.57**	**244.68**

NFA APPROACH

Capital Expenditure											
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	Decapitilisation	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

Depreciation											
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 Depreciation	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 Depreciation	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

Interest on Loan											
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

Return on Equity											
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

Annual Fixed Cost _ RoE on NFA Basis											
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**

Capital Expenditure

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	Decapitilisation	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

Depreciation

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%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%	1.54%
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	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
G	Closing Accumulated Depreciation	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 Depreciation	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

Interest on Loan

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	3.37	3.37	3.37	3.37	3.37	3.37	3.37						
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						

Return on Equity

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	**26.63**	23.27	19.90	16.54	13.17	9.81
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	3.73	3.26	2.79	2.32	1.84	1.37
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

Annual Fixed Cost _ RoE on NFA Basis

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	Total
A	Return on Equity	Rs Cr	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***	***1.37***	**95.71**
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	**49.08**
D	Depreciation	Rs Cr	2.88	2.71	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	**90.00**
F	**Annual Fixed Cost**	**Rs Cr**	**9.31**	**8.92**	**9.33**	**9.06**	**8.79**	**8.52**	**8.25**	**7.98**	**7.72**	**7.09**	**6.62**	**6.15**	**5.68**	**5.21**	**4.74**	**234.78**