

Additional surcharge calculations for FY-25

- The 15 minutes schedule capacity and available capacity of all sources was obtained from SLDC.
- The month wise average available capacity and schedule capacity was computed with the details provided by SLDC.
- Source wise difference of the average available capacity and schedule capacity was calculated to arrive at the stranded capacity for each source.
- This stranded capacity was compared with the scheduled Open access schedule capacity. The lower of these was considered as the stranded capacity. The stranded capacity was worked out to be **1033.46MW**.
- These computations were done as per the KERC stipulated formats form -1 and Form-2 in the KERC Open access regulations.
- For calculating the cost of the stranded power, the per MW capacity charges was determined by considering the approved Capacity charges per MW and the Capacity for FY-25, approved in Tariff Order 2024. The details are shown below:

FY-25	Capacity in MW	Cap.Charges in Crs.
RTPS	1470	1326.07
	250	221.98
BTPS	500	305.66
	500	420.03
	700	860.96
YTPS	1600	2223.04
CGS	4259.89	4008.83
UPCL	1200	1060.83
Total	10479.89	10427.4
Per unit FC of PP (Rs Crore/MW)		0.99

- Cost of Stranded Power for the year(S) (Rs Crores) = $1033.46\text{MW} \times 0.99 = 1028.29$ Crores.
- Further, Additional surcharge formula was stated as : Cost of Stranded Power for the year(S) (Rs Crores) / OA Energy in MU.
- The OA energy in MU for FY-25 obtained from all ESCOMs = 6247.82 MU.

- Hence, the additional surcharge was worked out as $1028.29/6247.82$ MU = Rs.1.65/unit. The same details was filed by BESCOM in OP29/2025.
- This additional surcharge was calculated without deducting the demand charges/ fixed charges paid by OA consumers to DISCOMs.
- In the State of Reasons on Regulations 12(d) at page12, it was decided to adjust the fixed cost of power purchase paid through demand charges by the open access consumers while computing Additional surcharge.
- Hence, the additional surcharge was calculated with the same details and after deducting the demand charges as shown in the below table:

Ref	Description	Unit	FY-25 actual data
{A}	Long term available capacity	MW	10479.89
{B}	Capacity stranded due to OA	MW	1033.46
{C}	Fixed charges paid to Generators	Rs in Crs	10427.40
{D}={C}÷{A}	Fixed charges per MW	Rs in Crs/MW	0.99
{E}={D}x{B}	Fixed charges for stranded capacity	Rs in Crs	1028.29
(F)	Actual Transmission charges	Rs in Crs	8316.33
(G)	Actual energy scheduled	MU	75758.09
{H}={F}÷{G}	Transmission charges per unit	Rs./kWh	1.10
I	Distribution charges as per Tariff Order	Rs./kWh	0.36
{J}={H}+{I}	Total transmission and distribution charges per unit	Rs./kWh	1.46
{K}	Energy consumed by open access consumers from the DISCOMs	MU	5763.99
{L}={K}x{J}	Transmission and distribution charges to payable by open access consumers	Rs in Crs	839.64
{M}	Demand charges recovered by the DISCOM from open access consumers	Rs in Crs	1506.91
{N}={M}-{L}	Demand charges to be adjusted	Rs in Crs	667.27
{O}={E}-{N}	Net stranded charges recoverable	Rs in Crs	361.01
{P}	Open access sales	MU	6247.82
{Q}={O}÷{P}	Additional Surcharge computed	Rs./kWh	0.58

- The serial no.{ A} Long term available capacity and {C} Fixed charges paid to Generators was obtained from Tariff Order 2024, shown in the below table:

FY-25	Capacity in MW	Cap.Charges in Crs.
RTPS	1470	1326.07
	250	221.98
BTPS	500	305.66
	500	420.03
	700	860.96
YTPS	1600	2223.04
CGS	4259.89	4008.83
UPCL	1200	1060.83
Total	10479.89	10427.4

- The serial no. {C} was computed based on KERC form-1.
- Actual Transmission charges {F} is the total transmission charges paid by ESCOMs for FY-25 as per the accounts statement.
- The Actual energy scheduled {G} is the total energy sales of ESCOMs for FY-25.
- Distribution charges as per Tariff Order: 0.36/unit for HT consumers for all ESCOMs as per Tariff Order 2024.
- {K} Energy consumed by open access consumers from the DISCOMs and {M} Demand charges recovered by the DISCOM from open access consumers are obtained from ESCOMs for FY-25.
- With the above details the cost of stranded power for the year has reduced from Rs.1028.29 Crores to Rs.361.01 Crores as shown in the above table.
- Hence, the additional surcharge payable by open access consumers is computed as **58 paise per unit.**


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