

PROJECTED ENERGY AVAILABILITY & COST FOR
FINANCIAL YEAR 2024-25

- 1.0 The energy required by ESCOMs of Karnataka for the Financial Year 2024-25 after considering the distribution and transmission losses is shown in Table-1.

Table-1

(Energy in Mus)

ESCOMs	2024-25
BESCOM	40331.37
GESCOM	11190.46
HESCOM including Hukkeri Society & AEQUS	15983.94
MESCOM Including MSEZ	6668.01
CESC, Mysore	10007.96
Total	84181.73

Month wise energy requirement by ESCOMs for the FY 2024-25 is as below;

(Energy in MUs)

Month	CESC	GESCOM	HESCOM	MESCOM	BESCOM	Total
Apr-24	1137.49	1057.31	1675.80	786.31	4043.55	8700.46
May-24	943.00	972.71	1596.19	667.56	3837.24	8016.70
Jun-24	676.81	882.72	1466.02	549.42	3164.22	6739.19
Jul-24	739.43	858.51	1243.16	454.29	3157.44	6452.83
Aug-24	645.85	714.56	1125.56	428.58	3037.73	5952.28
Sep-24	636.79	1009.35	1148.21	422.38	2985.35	6202.08
Oct-24	711.75	902.52	1181.76	435.98	2987.46	6219.47
Nov-24	660.97	749.10	1071.84	444.32	2875.04	5801.27
Dec-24	795.58	927.48	1210.53	489.94	3144.53	6568.06
Jan-25	875.50	980.48	1338.67	585.16	3392.79	7172.60
Feb-25	1065.93	1079.28	1451.02	688.24	3868.31	8152.78
Mar-25	1118.87	1056.45	1475.17	715.82	3837.71	8204.02
Total	10007.96	11190.46	15983.92	6668.01	40331.36	84181.71



[Signature]
CONTROLLER (A & R)
HESCOM, Hubballi.

CONTROLLER (A & R)
HESCOM, Hubballi

2.0 Assessment Of Availability

The ESCOM's had broadly categorized the sources of energy into State owned Generation ie Generation from KPCL, allocation (firm and non firm) from Central generating Stations(CGS), Independent Power producers(IPP's), Renewable Energy sources such, Bio-Mass, Co-Generation, Mini Hydro, wind and Solar Powe plants. And also tied up with bilateral and joint venture contract with DVC, TSGENCO (Priyadarshni Hydro Project) and TBHE. To meet the deficit quantum of power, banking / swapping of power arrangement with other State utilities such as PSPCL & UPPCL has been done.

3.0 The availability of power and related costs for the ensuing year FY 2024-25 for the state of Karnataka, forecasted taking into account the following aspects

- ✓ Existing long term allocated generation capacity of Karnataka.
- ✓ New generation capacity additions during FY 2024-25 for Karnataka from Central Sector, State Sector, private players awarded through competitive bidding by individual ESCOMs.
- ✓ Banking/swapping of power arrangement with State Utilities
- ✓ Projects likely to be commissioned during the FY 2024-25 such as Kusum C

4.0 Hydro and Thermal Stations of KPCL

The Energy availability of Hydrel and Thermal stations of State Owned Power plants are considered as per the details furnished by KPCL in its email dated 24.11.2023. RPCL vide letter dated 24.11.2023 has furnished the availability of the energy and cost in respect of Yermarus thermal power plant. The energy projected by KPCL in respect of hydro stations is based on average energy generated in last 10 years average inflow with a 1% auxiliary consumption as per PPA. Energy availability in respect of Thermal Stations is as per the targeted availability defined in the PPA/Regulations wherever applicable and less by applicable auxiliary consumption of each station.

SRPC in the email dated 20.11.2023 has furnished the energy available for the FY 2024-25 in respect of NTPC stations, NLC & NPCIL.

During the Financial year 2024-25, Energy availability from different sources is more than the quantum required by ESCOMs, considering the following factors;



[Signature]
CONTROLLER (A & R), 2
HESCOM, Hubballi.

- i) The energy availability from KPCL stations including RPCL as per the details furnished by Generating Stations.
- ii) Energy availability from CGS stations viz., NTPC, NLC, Nuclear Power Corporation as per SRPC email dated 20.11.2023
- iii) UPCL in the letter dated 21.11.2023 has furnished the details
- iv) In respect of NCE projects, energy actual supplied during year 2022-23 has been considered for 2024-25.
- v) The actual energy drawal from Jurala Priyadarshini and TBHE for the year 2022-23 has been considered for the year 2024-25

The details of the energy available from different sources for the FY 2024-25 is as below;

Generating Stations	Energy in Mus	Source
KPCL Hydro	11609.47	KPCL
KPCL Thermal:		
RTPS -1 & 7	7471.10	KPCL
RTPS 8	1536.17	KPCL
BTPS		
Unit I	3063.60	KPCL
Unit II	3058.67	KPCL
Unit III	4776.48	KPCL
Yermarus TPS - 1& 2	10621.88	RPCL
CGS	21351.02	SRPC
Kudgi	9612.41	SRPC
DVC	3053.00	DVC
UPCL	7109.99	UPCL
NCE Projects	20077.79	Actuals of ESCOMs for the FY 2022-23
TBHE & Jurala projects	207.28	Actuals of ESCOMs for the FY 2022-23
Returning of Banking/ swapping of energy	-3187.94	
Total	100360.92	

5.0 Backing down of power:

After fully meeting the requirement of the State, the ESCOMs still have to partially back down/Keep Reserve Shut down the thermal plants so as to save on the variable costs being incurred. On the basis of average variable cost of April-2023 to September 2023 to arrive merit order dispatch for FY 2024-25 and thereafter, after considering all generating stations allocated to ESCOMs, availability of energy from different sources is more than quantum required by ESCOMs and hence available quantum from different sources have been reduced on the basis of Merit Order Despatch is as detailed below;



[Signature]
**CONTROLLER (A & R),
 HESCOM, Hubballi.**

Sources	Available quantum in Mus	Quantum offtake by ESCOMs in Mus	Difference in Mus
BTPS Uni1	3063.60	1704.96	1358.64
BTPS Unit-2	3058.67	2032.94	1025.73
BTPS Unit-3	4776.48	2772.89	2003.59
RTPS Unit1 to 8	7471.10	3929.13	3541.97
Yermarus TPS - 1 & 2	10621.88	6988.57	3633.31
UPCL	7109.99	2435.09	4674.91
Total	36101.71	19863.57	16238.15

5.1 The availability of Energy from Hydel & Thermal Power Station's details furnished by KPCL is shown in Table 2 & 3.

Table-2
HYDEL ENERGY

Sl. No.	Generating Source	Energy in MUs
1	Sharavathy Valley Projects (10x103.5 + 2x27.5)	4608.00
2	MGHE (4x21 + 4x13.2)	334.62
3	Gerusoppa_Sharavathi Tail Race_STR (4x60)	472.00
4	Kali Valley Project_KVP (2x50 + 5x150 +1x135)	3401.00
5	Varahi Valley Project_VVP (4x115 + 2x4.5)	1084.02
6	Almatti Dam Power House_ADPH (1x15 + 5x55)	483.00
7	Bhadra Hydro_BHEP (1x2+2x12)+(1x7.2+1x6)	55.00
8	Kadra Power House)KPH (3x50)	363.00
9	Kodasalli Dam Power House_KDPH (3x40)	364.00
10	Ghataprabha Dam Power House_GDPH (2x16)	70.00
12	Shivasamudram (4x4 + 6x3)	275.83
13	Shimshapura (2x8.6)	0.00
14	Munirabad Power House (2x9 + 1x10)	99.00
	TOTAL	11609.47



**CONTROLLER (A & R),
HESCOM, Hubballi.**

CONTROLLER (A & R),
HESCOM, Hubballi.



Table-3

KPCL THERMAL POWER STATIONS

Sl. No.	Stations	Installed Capacity in MW	Net scheduled Energy in MUs
1	RTPS I & 7	1470	4860.83
2	RTPS Unit 8	250	963.06
3	BTPS Unit I	500	1216.34
4	BTPS Unit II	500	1494.18
5	BTPS UNIT-III	700	3234.79
6	Yermarus TPS - 1 & 2	1600	6390.66
Total KPCL Thermal			18159.85

5.2 Total Hydel generation would be 11607.47 MUs and energy from Thermal plants would be scheduled is around 18159.85 MUs for 2024-25 from KPCL Thermal Station and Raichur Power Corporation Ltd.

6.0 Projection of cost - KPCL Hydel and Thermal Stations:

Hydel Stations:

The tariff rates worked out by KPCL based on KERC order dated 03.08.2009 for hydel stations except for Shivasamudram, Shimsha, Munirabad & MGHE. The tariff for the hydel stations is based on the design energy. The over and above the design energy paid at 15 paise per kwh or 3% of the ROE whichever is less. The Hon'ble Commission vide order dated 22.8.2023 determined the tariff for KPCL Hydro Stations of Shiva and Shimsha, Munirabad & MGHE. The tariff proposed by KPCL in its letter dated 24.11.2023 is considered for above hydro stations. The rate details furnished by the KPCL is as shown in Table-4.

Table-4

(Amount in Rs crores)

PARTICULARS	SVP	KVP	VVP	KPH	KDPH	GPH	GHEP	BPH	ADPH	Varahi 3&4
1.Gross Block (Rs. Crs)	435.05	527.55	352.43	442.62	302.29	530.78	47.08	24.70	521.37	262.49
2. a) Capacity (MW)	1090.00	941.00	239.00	150.00	120.00	240.00	32.00	39.20	290.00	230.00
b) Tariff Design Energy (TDE) (MUs)	3737.95	2058.77	848.69	419.90	372.48	442.62	84.97	50.49	286.00	834.86
c) Estimated Net Metered Energy	4608.00	3401.00	1084.02	363.00	364.00	472.00	70.00	55.00	483.00	1060.00
d) Minimum of TDE or actual NME	3737.95	2058.77	848.69	363.00	364.00	442.62	70.00	50.49	286.00	834.86

(A & R) CONTROLLER (A & R), HESCOM, Hubballi.



[Signature]
**CONTROLLER (A & R),
HESCOM, Hubballi.**

e) PAF%	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00
3. Estimated Recoverable Capacity Charges: Rs Crores)										
a) Depreciation	10.27	9.47	4.92	14.87	9.05	21.66	0.67	2.34	25.62	11.94
b) Advance depreciation										
c) Total	10.27	9.47	4.92	14.87	9.05	21.66	0.67	2.34	25.62	11.94
e) Actual Recoverable Capacity charges	10.27	9.47	4.92	14.87	9.05	21.66	0.67	2.34	25.62	11.94
d) Monthly Capacity Charge Amount	0.86	0.79	0.41	1.24	0.75	1.81	0.06	0.20	2.13	0.99
4. Estimated Recoverable Primary Energy Charges: (Rs Crores)										
a) Return	12.98	14.74	10.31	13.26	9.07	15.91	1.41	0.74	15.96	5.39
b) Operation & maintenance expenses	168.22	177.53	122.50	53.98	34.08	39.59	17.23	24.69	19.60	7.37
c) Tax - MAT(15%) plus (12% SC+ 4% Cess)	2.75	3.12	2.18	2.81	1.92	3.37	0.30	0.16	3.38	1.14
d) Interest on working capital	8.70	8.71	5.46	3.29	2.18	3.19	0.73	0.95	3.36	1.45
e) Total (a to d)	192.65	204.10	140.45	73.34	47.25	62.06	19.67	26.55	42.30	15.35
f) Primary energy charges recoverable on minimum of Actual NME or TDE	192.65	204.10	140.45	63.40	46.17	62.06	16.20	26.55	42.30	15.35
g) Estimated recoverable primary energy charges (Ps. / kwh)	51.54	99.14	165.49	174.66	126.84	140.22	231.49	525.75	147.90	18.39
5. Secondary Energy Charges (Rs. Crores)	2.84	3.22	2.25	0.00	0.00	0.44	0.00	0.07	2.96	0.00
6. Dis-incentive at 0.7% per 1% lower PAF below 85% (cap at 15% ROE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5. Royalty (20/100 Ps./Kwh) (Rs. Crores)	92.16	68.02	21.68	7.26	7.28	9.44	1.40	1.10	48.30	0.00
6. Calculation of interest on working capital:										
a) Operation & maintenance expenses	14.02	14.79	10.21	4.50	2.84	3.30	1.44	2.06	1.61	0.61
b) Maintenance spares	4.35	5.28	3.52	4.43	3.02	5.31	0.47	0.25	5.21	6.67
c) Receivables	36.38	34.71626	20.59	11.77	7.84	11.49	2.68	3.70	14.33	4.55
Total	54.75	54.79	34.33	20.69	13.70	20.09	4.59	6.00	21.15	11.83
d) Interest @ SBI PLR (13.89%) + 2% (15.89%)	8.70	8.71	5.46	3.29	2.18	3.19	0.73	0.95	3.36	1.45
8. Tariff at 90% dependability (Rs./kwh)	0.789	1.368	1.968	2.274	1.707	2.105	2.559	5.940	4.063	0.327

Computation of Tariff in respect of MGHE Jog, Munirabad & Shiva & Simsha

PARTICULARS	MGHE - Jog	Munirabad	Shiva & Simsha
1. a) Energy Generation as considered by KERC (MUs)	369	81	278
b) Estimated energy sales (MUs)	334.6	99	276
2. Estimated Recoverable Capacity Charges: (Rs Crores)			
a) Interest payment	0	0	0
b) Depreciation	1.79	0.34	3.48



Susant
**CONTROLLER (A & R),
HESCOM, Hubballi.**

c) Total	1.79	0.34	3.48
d) Monthly Capacity Charge Amount	0.15	0.03	0.29
3. Estimated Recoverable Primary Energy Charges: (Rs Crores)			
a) Return	2.60	0.51	4.54
b) Operation & maintenance expenses			
i) Escalated O&M expenses as approved by KERC	12.78	6.52	24.82
ii) O&M expenses due to wage revision (pending KERC approval)			
Total O&M expenses	12.78	6.52	24.82
c) Tax - As determined by KERC	0.88	0.17	1.54
d) Interest on working capital	0.58	0.47	1.62
e) Total (a to d)	16.84	7.68	32.52
f) Estimated recoverable primary energy charges (Ps. / kwh)	50.33	77.58	117.91
3. Royalty (20 Ps./Kwh) (Rs. Crores)	6.69	1.98	4.46
4. Calculation of interest on working capital:			
a) Operation & maintenance expenses	7.76	2.52	6.52
b) Maintenance spares	0.00	0.00	0.00
c) Receivables	4.16	1.34	6.70
Total	11.92	3.86	13.23
d) Interest @ SBI PLR rate as applied by KERC	1.46	0.47	1.62

Rate considered for Hydro stations:

Sl. No.	Source	Design energy in MUs	Rs/unit
A	KPCL – Hydel		
1	Sharavathy Valley Projects (10x103.5 + 2x27.5)	3737.95	0.65
2	MGHE (4x21 + 4x13.2)	368.89	0.76
3	Gerusoppa_Sharavathi Tail Race_STR (4x60)	240.00	1.98
4	Kali Valley Project_KVP (2x50 + 5x150 + 1x135)	2058.77	0.84
5	Varahi Valley Project_VVP (4x115 + 2x4.5)	848.69	1.56
6	Almatti Dam Power House_ADPH (1x15 + 5x55)	286.00	2.47
7	Bhadra Hydro_BHEP (1x2+2x12)+(1x7.2+1x6)	50.49	5.47
8	Kadra Power House)KPH (3x50)	419.90	2.36
9	Kodasalli Dam Power House_KDPH (3x40)	372.48	1.75
11	Ghataprabha Dam Power House_GDPH (2x16)	84.97	3.11
12	Shivasamudram (4x4 + 6x3)	278.00	1.47
13	Shimshapura (2x8.6)		0.00
14	Munirabad Power House (2x9 + 1x10)	80.58	1.01



[Signature]
**CONTROLLER (A & R),
HESCOM, Hubballi.**

Note: Paise 20 as royalty charges is considered for the actual generation in respect of all Hydro stations except for the Almatti Dam Power House Rs. 1.00 /unit and shimsa. The average cost of hydel stations works out to Rs.1.09/unit for FY 2024-25.

KPCL Thermal Stations:

The tariff rates worked out by KPCL based on various parameters of tariff orders in respect of thermal stations RTPS units 1 to 7, RTPS-8, BTPS unit-I, II & III is considered. Tariff proposed in the letter dated 24.11.2023 by KPCL is considered for the following units;

(Amount in Rs. Crores)

RTPS Unit 1 to 7	Amount in Rs. Crores
Estimated Recoverable Fixed Charges:	
a) i. Interest payment	0.00
ii. Lease rentals	0.65
b) Return	116.99
c) Depreciation	88.24
d) Operation & maintenance expenses	
i) Escalated O&M expenses approved by KERC	657.76
ii) O&M expenses due to wage revision (pending KERC approval)	
Total O&M expenditure	657.76
e) Tax - (15% + 12% Surcharge + 4% Cess)	
17.4720%	24.77
f) Interest on working capital	212.18
g) Fixed cost of FGD	161.01
h) Total (a to f)	1261.59
CALCULATION OF INTEREST ON WORKING CAPITAL	
a) Operation & maintenance expenses 30 days requirement	54.06
b) Stock of primary fuel 45 days requirement	466.81
c) Stock of secondary fuel 60 days requirement	21.97
d) Maintenance spares 1% of Capital Expenditure	29.37
e) Receivables 60 days of actual billing	763.07
Total	1335.29
f) Interest @ SBI PLR (12.27%) + 2% (14.27%)	212.18

Particulars	RTPS Unit 8	BTPS Unit 1	BTPS Unit 2	BTPS Unit 3
FINANCE CHARGES:	11.02	0.00	40.23	162.35
O&M EXPENSES				
i) O&M expenses as approved by KERC	104.80	124.13	149.71	168.49
DEPRECIATION	59.66	44.20	121.94	225.84
RETURN ON EQUITY	31.28	53.90	74.76	184.78



**CONTROLLER (A & R),
HESCOM, Hubballi.**

INTEREST ON WORKING CAPITAL	20.11	79.36	51.99	114.02
Income tax		11.41		
Total	226.87	313.01	438.63	855.48
INTEREST ON WORKING CAPITAL				
a. COAL COST 2 months requirement	50.88	252.02	115.01	316.74
b. OIL COST 2 months requirement	0.96	6.77	3.15	2.60
c. O&M EXPENSES AT 1 MONTH	7.81	10.34	11.16	14.04
d. SPARES AT 20% OF O&M expenses	18.75	33.84	26.79	33.70
e. RECEIVABLES AT 2 months	89.95	344.91	190.20	523.68
	168.35	647.87	346.31	890.76
Interest at SBI PLR as on 01.04.2010 @11.75%	19.78	79.36	51.08	114.02

Capacity charges as determined by KERC in the order dated 17.1.2022 is considered for the YTPS for FY 2024-25. The average variable cost for the months of April 2023 to September 2023 is considered for the FY 2024-25.

Rs/kwh

Month	RTPS Unit 1 to 7	RTPS Unit-8	BTPS Unit-1	BTPS Unit-2	BTPS Unit-3	YTPS
Apr-23	4.38	4.39	4.75	4.46	4.38	4.43
May-23	4.65	4.57	4.95	4.64	4.41	4.52
Jun-23	5.05	5.00	4.99	4.56	4.50	4.68
Jul-23	5.10	5.05	5.34	4.97	4.81	4.76
Aug-23	4.93	4.80	5.20	5.16	4.50	4.77
Sep-23	6.09	5.99	4.88	4.36	4.54	5.19
Total	30.19	29.80	30.10	28.15	27.13	28.35
Average rate/unit	5.03	4.97	5.02	4.69	4.52	4.72

Table-5

(Rs /Kwh)

Sl. no.	Stations	2024-25	
		Fixed cost Rs in Crores	Variable cost Paise per Kwh
1	RTPS unit 1 to 7	1261.59	5.03
2	RTPS unit-8	226.87	4.97
3	BTPS unit-1	313.01	5.02
4	BTPS unit-II	438.63	4.69
5	BTPS Unit-III	855.48	4.52
6	Yermarus Unit-I & II	2223.04	4.72
	Total	5318.63	

CONTROLLER (A & R),
HESCOM, Hubballi



[Signature]
CONTROLLER (A & R),
HESCOM, Hubballi.

delB

7.0 Central Generating Stations:

ESCOMs have a share in Central Generating station of NTPC, Neyveli Lignite Corporation (NLC), Nuclear power stations and other Joint Venture Projects. The allocation of capacity entitlement from these stations includes both firm and unallocated share. The unallocated share is vary depending upon the allocation issued by Ministry of Power, GoI.

The energy available to ESCOMs depends on the scheduled generation and share in a month and other parameters such as availability and outages (forced and planned). SRPC in the email dated 20.11.2023 has furnished the energy available at ex-bus generation in respect of NTPC stations, NLC and NPCIL for the year 2024-25. Out of the total month wise energy available at Ex-bus, the share of Karnataka including unallocated share for the month of September 2023 is taken to arrive the energy available to Karnataka for FY 2024-25. In order to arrive energy available at Karnataka Periphery, all India Transmission loss for the week from 20.11.2023 to 26.11.2023 as notified by the NLDC of 3.59% is taken. The scheduled energy available at ex-bus, share of Karnataka and net energy available at KPTCL periphery after considering the POC losses is shown in **Table-6**.

Station	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Total
RSTP-I&II	1289	1332	1117	1182	1332	1289	1332	1064	1182	1332	1203	1332	14988.58
RSTP-III	329	340	329	340	340	329	340	329	340	70	240	340	3666.05
RSTP-Talcher	1327	1371	1143	1039	1371	1325	1370	1326	1211	1017	1237	1372	15108.02
Simhadri station II	645	666	473	355	666	645	666	645	666	666	602	666	7359.98
Vallur unit-I, II & III	830.70	858.39	608.77	591.13	858.39	781.83	807.89	703.65	568.95	573.62	775.32	858.39	8817.01
Kudigi Unit 1,2 & 3	1539	1590	1026	1505	1590	1539	1590	1436	1094	1590	1436	1590	17528
NTPC Telagana	908	938	908	938	938	908	938	908	938	938	848	938	11049.86
NTPC Farakka STPS -I&II	217	217	217										652.32
NLC II Stage-1	311	361	348	253	363	241	204	274	352	361	291	319	3678.00
NLC II Stage-2	421	488	364	487	380	466	470	420	365	366	386	433	5046.00
NLC expansion I	260	270	130	213	269	260	156	254	262	273	245	273	2865.00
NLC expansion Stage II (Unit-	226	121	226	235	119	226	121	226	121	235	212	235	2303.00
NTPL Unit-2X 500 Mw	628	419	387	576	649	628	649	628	649	649	586	649	7100
New NLC Thermal projects	596	307	457	591	543	523	552	536	373	604	546	604	6232.00
MAPS	101	106	101	-18	69	101	106	101	106	106	98	106	1083.00
Kaiga Unit-1& 2	239	247	239	247	247	119	78	118	122	122	110	122	2010.00
Kaiga Unit-3&4	252	260	252	260	260	252	260	126	220	260	239	260	2901.00
Kudamkulam Unit-1	435	692	670	692	692	670	692	670	692	692	625	692	7912.44
Kudamkulam Unit-II	698	89	0	502	692	670	692	670	692	692	625	692	6712.74
													127012.92



Dhanraj W
**CONTROLLER (A & R),
HESCOM, Hubballi.**

**Energy allocated to State of Karnataka from the CGS stations:
Table – 6**

Sl. No.	Stations	Total Energy scheduled at EX-bus in MUs	Share of Karnataka in %	Karnataka Share in MUs
1	NTPC_RSTP-I&II (3x200 + 3x500)	14989	23.29	3491.29
2	NTPC_RSTP-III (1x500)	3666	25.12	920.91
3	NTPC_ThalcherI (4x500)	15108	19.72	2978.70
4	Simhadri Unit 1&2 (2x500)	7360	21.79	1604.03
5	NTPC Tamilnadu Energy Company Ltd (NTECL)_Vallur	8817	11.53	1016.25
6	NTPC Kudgi STPP(800 X3)	17528	56.88	9970.34
7	NTPC Telagana STPP(800X2)	11050	6.72	742.09
8	NTPC Khalgon	652	100.00	652.32
9	Neyveli Lignite Corporation_TPS II_Stage 1 (3x210)	3678	23.62	868.78
10	Neyveli Lignite Corporation_TPS II_Stage 2 (4x210)	5046	23.96	1209.02
11	Neyveli Lignite Corporation_TPS I_Expansion (2x210)	2865	28.99	830.59
12	Neyveli Lignite Corporation_TPS II_Expansion (2x250)	2303	28.76	662.43
13	NLC Tamilnadu Power Ltd (NTPL) (Tuticorin) (2x500)	7100	22.20	1576.22
14	New NLC Thermal Project	6232	7.65	477.00
15	MAPS (2x220)	1083	8.45	91.52
16	Kaiga Unit 1 & 2 (2x220)	2010	31.37	630.44
17	Kaiga Unit 3 & 4 (2x220)	2901	33.87	982.43
18	NPCIL-Kudankulam Atomic Power Generating Statio	7912	24.37	1928.52
19	NPCIL-Kudankulam Atomic Power Generating Statio	6713	22.10	1483.52
20	DVC_Unit 1 & 2_Mejia TPS (2x500)	7037	20.00	1407.42
21	DVC_Unit 7 & 8_Koderma TPS (2x500)	7037	25.00	1759.27

Energy available at KPTCL periphery

Stations	Energy scheduled @ generators Ex-bus in MUs	Losses (%)	Energy @ Ex-bus Mus
NTPC_RSTP-I&II (3x200 + 3x500)	3491.29	3.59	3365.95
NTPC_RSTP-III (1x500)	920.91	3.59	887.85
NTPC_ThalcherI (4x500)	2978.70	3.59	2871.76
Simhadri Unit 1&2 (2x500)	1604.03	3.59	1546.45
NTPC Tamilnadu Energy Company Ltd (NTECL)_Vallur TPS Stage 1&2 &3 (3x500)	1016.25	3.59	979.76
NTPC Kudgi STPP(800 X3)	9970.34	3.59	9612.41
NTPC Telagana STPP(800X2)	742.09	3.59	715.45
NTPC Kahalgaon	652.32	3.59	628.90
Neyveli Lignite Corporation_TPS II_Stage 1 (3x210)	868.78	3.59	837.59
Neyveli Lignite Corporation_TPS II_Stage 2 (4x210)	1209.02	3.59	1165.62
Neyveli Lignite Corporation_TPS I_Expansion (2x210)	830.59	3.59	800.77
Neyveli Lignite Corporation_TPS II_Expansion (2x250)	662.43	3.59	638.65

(A & R) CONTROLLER
HESCOM, Hubballi



**CONTROLLER (A & R),
HESCOM, Hubballi.**

NLC Tamilnadu Power Ltd (NTPL) (Tuticorin) (2x500)	1576.22	3.59	1519.64
New NLC Thermal Project	477.00	3.59	459.87
MAPS (2x220)	91.52	3.59	88.24
Kaiga Unit 1 & 2 (2x220)	630.44	3.59	607.81
Kaiga Unit 3 & 4 (2x220)	982.43	3.59	947.16
NPCIL-Kudankulam Atomic Power Generating Station (KKNPP_Unit 1 (1x1000))	1928.52	3.59	1859.29
NPCIL-Kudankulam Atomic Power Generating Station (KKNPP_Unit 2 (1x1000))	1483.52	3.59	1430.26
DVC_Unit 1 & 2_Mejia TPS (2x500)	1407.42	3.59	1356.89
DVC_Unit 7 & 8_Koderma TPS (2x500)	1759.27	3.59	1696.11
Total	35283.09		34016.43

CERC has determined the tariff for the control period 2019 to 2024. The tariff for the further control period shall be determined after filing tariff petition by the generator. Hence, the applicable capacity charges for the year 2023-24 has been considered for the FY 2024-25.

The average variable cost for the month of April -2023 to Sept 2023 is considered for energy charges for FY 2024-2025.

Station	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Average rate Rs./unit
RSTP-I&II	3.38	3.42	3.61	3.865	4.115	3.965	3.73
RSTP-III	3.33	3.37	3.56	3.81	4.06	3.91	3.67
RSTP-Talcher	1.68	1.68	1.99	2.19	2.39	1.82	1.96
Simhadri station II	4.73	4.70	4.91	4.772	3.955	3.314	4.40
Vallur unit-I, II & III	3.27	3.73	3.79	3.847	3.99	4.079	3.78
Kudigi Unit I,2 & 3	5.75	4.96	5.19	5.196	4.777	5.143	5.17
NTPC Telagana						3.68	3.68
NTPC Kahalgaon STPS -I&II						3.7	3.70
NLC II Stage-1	3.21	3.21	3.21	3.214	3.206	3.204	3.21
NLC II Stage-2	3.21	3.21	3.21	3.214	3.206	3.204	3.21
NLC expansion I	2.84	2.85	2.85	2.844	2.87	2.852	2.85
NLC expansion Stage II (Unit-1)	3.03	3.03	3.04	3.084	3.042	3.042	3.04
NTPL Unit-2X 500 Mw	3.50	3.43	4.02	3.425	3.374	3.312	3.51
New NLC Thermal projects	2.58	2.63	2.62	2.561	2.565	2.581	2.59
MAPS	2.60	2.60	2.60	2.60	2.60	2.60	2.60
Kaiga Unit-1& 2	3.497	3.497	3.500	3.500	3.500	3.500	3.50
Kaiga Unit-3&4	3.497	3.497	3.500	3.500	3.500	3.500	3.50
Kudamkulam Unit-1	4.397	4.402	4.244	4.245	4.247	4.250	4.30
Kudamkulam Unit-II	4.397	4.402	4.244	4.245	4.247	4.250	4.30



**CONTROLLER (A & R),
HESCOM, Hubballi.**

In respect of MAPS, Kaiga, and Kudamkulam power station the average rate per unit for the months of April – 2023 to Sep-2023 is considered.

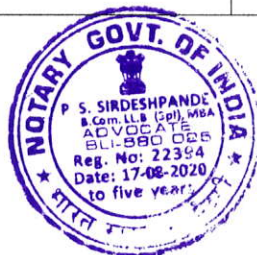
Rs/kwh

Particulars	MAPS	Kaiga Units 1 to 4	Kudamkulam Unit -1	Kudamkulam Unit -2
Base Price	2.402	3.415	3.545	3.545
Heavy Water adjustment charges	0.007	-0.189	0.535	0.535
Heavy Water lease adjustment charges	0.000	0.020	0.000	0.000
Insurance	0.123	0.183	0.052	0.052
Decommissioning Levy	0.020	0.020	0.020	0.020
Forex Variation Adjustment Charges	0.050	0.050	0.095	0.095
Nuclear Liability & Forex adjustment	0.000	0.000	0.050	0.050
Total tariff	2.602	3.499	4.298	4.298

As per the order of CERC, CGS stations are claiming ash transportation charges, the same is considered in the projection. The capacity charges (Fixed Cost) and variable cost considered for 2024-25 is shown in Table-9.

Table-9

Central Projects	FC Rs in Cr	Rs/kwh	Other charges Rs crores
NTPC_RSTP-I&II (3x200 + 3x500)	266.16	3.73	0.33
NTPC_RSTP-III (1x500)	75.32	3.67	0.01
NTPC_Thalcherl (4x500)	225.66	1.96	24.51
Simhadri Unit 1&2 (2x500)	219.26	4.40	9.89
NTPC Tamilnadu Energy Company Ltd (NTECL)_Vallur TPS Stage 1&2 &3 (3x500)	205.03	3.78	0.12
NTPC Kudgi STPP(800 X3)	1590.05	5.17	0.00
NTPC Telagana STPP(800X2)	74.85	3.68	0.00
NTPC Kahalgaon	50.10	3.70	0.00
Neyveli Lignite Corporation_TPS II_Stage 1 (3x210)	84.23	3.21	0.11
Neyveli Lignite Corporation_TPS II_Stage 2 (4x210)	117.16	3.21	0.15
Neyveli Lignite Corporation_TPS I_Expansion (2x210)	81.97	2.85	1.82
Neyveli Lignite Corporation_TPS II_Expansion (2x250)	191.55	3.04	0.12
NLC Tamilnadu Power Ltd (NTPL) (Tuticorin) (2x500)	242.01	3.51	0.17
New NLC Thermal Project	96.41	2.59	0.29
MAPS (2x220)	0.00	2.60	0.00
Kaiga Unit 1 & 2 (2x220)	0.00	3.50	0.22
Kaiga Unit 3 & 4 (2x220)	0.00	3.50	0.00
NPCIL-Kudankulam Atomic Power Generating Station (KKNPP_Unit 1 (1x1000)	0.00	4.30	0.19
NPCIL-Kudankulam Atomic Power Generating Station (KKNPP_Unit 2 (1x1000)	0.00	4.30	0.17
DVC_Unit 1 & 2_Meija TPS (2x500)	205.56	3.26	5.03
DVC_Unit 7 & 8_Koderma TPS (2x500)	283.51	2.99	2.99



[Signature]
**CONTROLLER (A & R),
HESCOM, Hubballi,**

Income tax for the CGS station included in the capacity charges payment on normative basis by grossing up of RoE with effective tax rate of the respective financial year of the generating company. Income tax is included as a part of capacity charges and not payable separately and hence not considered.

8.0 Sharing Transmission Charges

The power transmission from Central Sector Generating Stations is either through the PGCIL lines or any lines constructed by developer selected through competitive bidding route from the generating plants. ESCOMs have to pay POC (Transmission charges) to PGCIL / Independent Power Transmission Utility for transmitting the CGS power and power from other States.

Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses), Regulations 2020 came into force with effect from 1.11.2020. National Load Despatch Centre (NLDC) as the Implementing Agency under Sharing Regulations 2020 has been entrusted with the responsibility of computation of Inter State Transmission Charges (ISTS) and losses. As per Regulation (14)(5)(b), Transmission Charges payable by DICs shall be notified by the Implementing Agency by 25th day of the month following billing period. The computation of transmission charges shall be done on the basis of inputs received from ISTS Licensees, DICs / States, CTU as per the Regulations.

As per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020, the ESCOMs shall have to make transmission charges on the following components;

- 1) National Component (NC);
- 2) Regional Component (RC);
- 3) Transformer Component (TC); and
- 4) AC System Component (ACC).

CERC has issued the Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-state transmission system), Regulation, 2022.

State Transmission Utility on behalf of intra-State entities including distribution licensees has been allocated GNA quantum of 4376 MW to Karnataka in Annexure-I of Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2022 notified on 07.06.2022.



CONTROLLER
HESCOM, Hubballi



[Signature]
CONTROLLER (A & R),
HESCOM, Hubballi.

ESCOMs have tied up the total power purchase quantum connected to ISGS network is 5996 MW. The additional GNA is proposed to an extent of 1620 MW. The total GNA quantum including additional GNA is 5996 MW (4376 MW Plus additional GNA of 1620 MW).As per the above notification, the PoC charges payable by ESCOMs of Karnataka for the FY 2024-25 is worked out as below:

Amount in Rs crores

GNA	Usage based AC system charges	Balance AC system charges	National component		Regional Component	Transformers component	Bilateral charges	Total Transmission charges
	AC-UBC	AC-BC	NC-RE	NC+HVDC	RC	TC		
5996.93	625.92	1208.68	187.54	157.53	822.94	124.92	0.00	3127.52

Particulars	B.E.S.COM	M.E.S.COM	C.E.S.CO	HESCOM	G.E.S.COM	TOTAL
GNA MW	2916.42	435.23	701.47	1118.52	825.30	5996.93
Yearly charges Rs crores	1520.97	226.98	365.83	583.33	430.41	3127.52

The above charges vary on month to month depending on load, generation, usage of lines and transmission charges of additional lines added to the system.

9.0 The **Grid Controller of India Ltd (POSOCO-SRLDC)** charges are considered as per CERC order dated 31.5.2021 and SRLDC fee Regulation 2019. The Charges payable for the year is Rs. 5.50 Crores. The ESCOM wise charges allocated is as below;

ESCOMS wise % of allocation	BESCOM	MESCOM	CESCO	HESCOM	GESCOM	TOTAL	Capacity entitlement in MW for the month of October-2023
NTPC-Ramagundam (RSTPS) I & II	49.5000	7.0000	11.7500	18.5000	13.2500	100	483.35
NTPC-Ramagundam (RSTPS) III	49.5000	7.0000	11.7500	18.5000	13.2500	100	120.58
NTPC TALCHER II	49.5000	7.0000	11.7500	18.5000	13.2500	100	402.38
NTPC SHIMHADRI II	49.5000	7.0000	11.7500	18.5000	13.2500	100	208.05
NTPC KUDGI	49.5000	7.0000	11.7500	18.5000	13.2500	100	1211.18
NLC TS TPS II-Stage-I	49.5000	7.0000	11.7500	18.5000	13.2500	100	146.03
NLC TS TPS II-Stage-II	49.5000	7.0000	11.7500	18.5000	13.2500	100	196.62
NLC TPS - I Expansion	49.5000	7.0000	11.7500	18.5000	13.2500	100	121.04
NLC TPS - II Expansion	49.5000	7.0000	11.7500	18.5000	13.2500	100	144.10



229

NLC NNTPS	49.5000	7.0000	11.7500	18.5000	13.2500	100	73.72
NTECL- Vellore STPS TPS I, II & III	49.5000	7.0000	11.7500	18.5000	13.2500	100	162.65
NTPL Tuticorin	49.5000	7.0000	11.7500	18.5000	13.2500	100	211.78
NPCIL MAPS	49.5000	7.0000	11.7500	18.5000	13.2500	100	37.18
NPCIL Kaiga-UNIT I & II	49.5000	7.0000	11.7500	18.5000	13.2500	100	138.01
NPCIL Kaiga-UNIT III & IV	49.5000	7.0000	11.7500	18.5000	13.2500	100	149.01
NPCIL KKNPP-UNIT I	49.5000	7.0000	11.7500	18.5000	13.2500	100	243.73
NPCIL KKNPP-UNIT II	49.5000	7.0000	11.7500	18.5000	13.2500	100	221.00
Telangana STTP-UNIT I	49.5000	7.0000	11.7500	18.5000	13.2500	100	53.73
Damodar Valley Corporation U-I & II (Mejia)	49.5000	7.0000	11.7500	18.5000	13.2500	100	188.50
Damodar Valley Corporation U-7 & 8 (Koderma)	49.5000	7.0000	11.7500	18.5000	13.2500	100	235.63
NTPCVVNL SOLAR (Rajasthan)	46.6473	7.9087	11.5021	19.0788	14.8631	100	65.00
NTPC-NTPCVVNL Solar (New)	46.6473	7.9087	11.5021	19.0788	14.8631	100	600.00
Balance National Solar Mission (Pavagada)	46.3898	7.8896	11.5998	18.9999	15.1209	100	1250.00
Total							6663.26
NTPC-Ramagundam (RSTPS) I & II	239.26	33.83	56.79	89.42	64.04	483.35	
NTPC-Ramagundam (RSTPS) III	59.69	8.44	14.17	22.31	15.98	120.58	
NTPC TALCHER II	199.18	28.17	47.28	74.44	53.32	402.38	
NTPC SHIMHADRI II	102.99	14.56	24.45	38.49	27.57	208.05	
NTPC KUDGI	599.53	84.78	142.31	224.07	160.48	1211.18	
NLC TS II-Stage-I	72.29	10.22	17.16	27.02	19.35	146.03	
NLC TS II-Stage-II	97.33	13.76	23.10	36.37	26.05	196.62	
NLC TPS - I Expansion	59.92	8.47	14.22	22.39	16.04	121.04	
NLC TPS - II Expansion	71.33	10.09	16.93	26.66	19.09	144.10	
NLC NNTPS	36.49	5.16	8.66	13.64	9.77	73.72	
Vellore STPS TPS I & II	80.51	11.39	19.11	30.09	21.55	162.65	
NTPL Tuticorin	104.83	14.82	24.88	39.18	28.06	211.78	
NPCIL MAPS	18.41	2.60	4.37	6.88	4.93	37.18	
Kaiga-UNIT I & II	68.31	9.66	16.22	25.53	18.29	138.01	
Kaiga-UNIT III	73.76	10.43	17.51	27.57	19.74	149.01	
NPCIL KKNPP-UNIT I	120.65	17.06	28.64	45.09	32.29	243.73	
NPCIL KKNPP-UNIT II	109.40	15.47	25.97	40.89	29.28	221.00	
Telangana STTP-UNIT I	26.59	3.76	6.31	9.94	7.12	53.73	
Damodar Valley Corporation (Mejia)	93.31	13.20	22.15	34.87	24.98	188.50	
Damodar Valley Corporation (Koderma)	116.63	16.49	27.69	43.59	31.22	235.63	
SOLAR NTPCVVNL (Rajasthan) (OLD)	30.32	5.14	7.48	12.40	9.66	65.00	
NTPC-NTPCVVNL Solar (New)	279.88	47.45	69.01	114.47	89.18	600.00	
Balance National Solar Mission (Pavagada)	579.87	98.62	145.00	237.50	189.01	1250.00	
Total	3240.47	483.59	779.41	1242.80	917.00	6663.26	

Weighted Average %	48.6320	7.2580	11.6970	18.6520	13.7620	100
---------------------------	----------------	---------------	----------------	----------------	----------------	------------



**CONTROLLER (A & R),
HESCOM, Hubballi.**

ESCOMS	B.E.S.COM	M.E.S.COM	C.E.S.CO	HESCOM	G.E.S.COM	TOTAL
Weighted average allocation in MW	3240.47	483.59	779.41	1242.80	917.00	6663.26
Charges in Rs	2.68	0.40	0.64	1.03	0.76	5.50

10.0 Independent Power Producers

The generation of 1200 MW of UPCL Unit -1 & Unit-2 taken at 85% of 90% installed capacity as per PPA/ approval given by Government. Tariff in respect of control period 2019-20 to 2023-24 is yet to be determined by CERC and hence the auxiliary consumption of 5.75% as per CERC Regulation 2019 and additional auxiliary consumption 1.2% allowed by CERC vide order dated 20.02.2014 and 10.07.2015 is taken. The capacity charges determined by CERC in the order dated 22.01.2020 applicable for FY 2018-19 is considered for FY 2024-25. The average variable cost for the month of April 2023 to Oct-2023 is considered for FY 2023-24

Table-10

Stations	Energy in Mus	Fixed cost Rs in Cr	Variable cost Rs/kwh	Other Charges Rs crores
UPCL	2435.09	1091.48	5.34	32.00

Month wise Variable cost per unit

Month	Rs /unit
Aug-23	6.008
Sep-23	5.207
Oct-23	4.797
Average	5.337

11.0 Non conventional Energy Source (NCE source)

11.1 The actual generation of NCE projects for the year 2022-23 has been considered for FY 2024-25 including Solar, Co-generation, Bio-mass, Wind Mills and Mini Hydel projects..

11.2 Ministry of power allocated un allocated power of coal based NTPC stations for bundling with solar power in ratio of 1.2 (unallocated power: Solar power) as envisaged under National Solar Mission Phase-II, Batch-II Tranche-I has been surrendered on 15.7.2021.



[Signature]
**CONTROLLER (A & R),
HESCOM, Hubballi,**

11.3 ESCOM wise NCE energy projected for FY2024-25 is shown in Table 11.

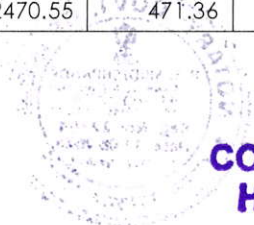
Energy in Mus

Sources	BESCOM	GESCOM	HESCOM	MESCOM	CESC	Total
Co-generation	0.00	57.61	588.72	0.00	20.75	667.08
Mini Hydel_EXISTING	524.30	157.75	59.72	381.97	275.34	1399.08
Mini Hydel_New	0.00	0.00	0.00	0.00	0.00	0.00
Wind Mill_EXISTING	2464.13	1351.07	1896.36	257.32	195.52	6164.40
Wind Mill_New	0.00	0.00	0.00	0.00	0.00	0.00
Solar_EXISTING	4652.11	1074.40	1865.86	740.31	1004.63	9337.31
Solar_New	0.00	0.00	0.00	0.00	0.00	0.00
Biomass_EXISTING	64.58	0.00	0.00	0.00	0.00	64.58
Biomass_New	0.00	0.00	0.00	0.00	0.00	0.00
KPCL-Wind (9x0.225+10x0.230)	6.95	0.00	0.00	0.00	0.00	6.95
KPCL-Solar (Yelesandra, Itnal, Yapaldinni, Shimsha) (3x1+3x1+1x3+1x5)	2.21	2.71	1.40	0.00	0.00	6.32
KUSUM C	618.91	0.00	6.32	0.00	0.00	625.23
Waste to Energy	71.93	0.00	0.00	0.00	0.00	71.93
Total	8405.11	2643.54	4418.38	1379.60	1496.24	18342.88
Bundled Power:						
Bundled Power Coal (old)	181.82	57.93	74.39	30.84	44.83	389.81
Bundled Power Solar (old)	45.80	14.59	18.74	7.77	11.29	98.19
Bundled Power Coal (new)	0.00	0.00	0.00	0.00	0.00	0.00
Bundled Power Solar (new)	578.95	188.40	236.73	98.30	144.53	1246.91
Sub Total	806.57	260.92	329.86	136.91	200.65	1734.92
Grand total	9211.68	2904.46	4748.25	1516.51	1696.89	20077.79

11.4 The average cost of the year 2022-23 is considered for Hydro , wind and , Solar.

The tariff in respect of commission order dated 15.11.2021 has been considered for Co-generation projects.

Sources	BESCOM	GESCOM	HESCOM	MESCOM	CESC	Total
Co-generation	0.00	32.46	331.71	0.00	11.80	375.97
Mini Hydel_EXISTING	167.74	51.73	17.49	132.54	90.21	459.71
Mini Hydel_New	0.00	0.00	0.00	0.00	0.00	0.00
Wind Mill_EXISTING	960.26	531.94	772.94	92.12	67.73	2424.99
Wind Mill_New	0.00	0.00	0.00	0.00	0.00	0.00
Solar_EXISTING	2470.55	471.36	1031.27	335.36	424.98	4733.52



**CONTROLLER (A & R),
HESCOM, Hubballi.**

Solar_New	0.00	0.00	0.00	0.00	0.00	0.00
Biomass_EXISTING	36.21	0.00	0.00	0.00	0.00	36.21
Biomass_New	0.00	0.00	0.00	0.00	0.00	0.00
KPCL-Wind (9x0.225+10x0.230)	2.29	0.00	0.00	0.00	0.00	2.29
KPCL-Solar (Yelesandra, Itnal, Yapaldinni, Shimsha) (3x1+3x1+1x3+1x5)	1.59	1.62	0.84	0.00	0.00	4.05
KUSUM C	195.39	0.00	1.94	0.00	0.00	197.33
Waste to Energy	50.93	0.00	0.00	0.00	0.00	50.93
Total	3884.96	1089.11	2156.19	560.02	594.72	8285.00
Bundled Power:						
Bundled Power Coal (old)	105.17	33.51	43.03	17.84	25.93	225.48
Bundled Power Solar (old)	54.32	17.31	22.23	9.21	13.39	116.46
Bundled Power Coal (new)	0.00	0.00	0.00	0.00	0.00	0.00
Bundled Power Solar (new)	291.20	94.77	119.08	49.45	72.70	627.18
Sub Total	806.57	260.92	329.86	136.91	200.65	1734.92
Grand total	4691.53	1350.03	2486.05	696.94	795.37	10019.91

12.0 Jurala Project

The ESCOMs having a share of 50% from Jurala Priyadarshni Hydro Electric Projects ie 117 MW. The net energy exported to Karnataka from Jural Priyadarshni Hydro Electric Projects for the year 2022-23 is considered for FY 2024-25. The TSERC vide tariff order dated 22.03.2023 has determined the capacity charges for the project for the control period from 1.4.2019 to 31.3.2024. The 50% of the capacity Charges applicable for the FY 2023-24 as determine by the TSERC is considered.

Table-13

	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Total
Energy in Mus	-0.096	-0.112	1.168	28.288	58.64	60.264	68.2544	12.704	0.2576	-0.072	-0.0768	-0.0656	229.1536
Amount in Rs Cr	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	50.61

13.0 The energy from T. B. Dam power is shared between AP/Telangana and Karnataka. The 1/5th share of revenue expenditure and energy has been shared between two states. The actual cost and energy supplied for the FY 2022-23 is considered for FY 2024-25. The power purchase cost and energy from T. B. Dam has been estimated at 37.08 MUs and Rs. 4.00 crore.



[Signature]
**CONTROLLER (A & R),
HESCOM, Hubballi.**

Table-14

	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Total
Energy in Mus	1.70	-0.10	0.06	2.99	6.82	5.51	4.28	2.44	2.90	3.55	3.27	3.78	37.08
Amount in Rs crore	0.03	0.66	0.34	0.11	0.23	0.03	0.09	1.12	0.62	0.31	0.16	0.30	4.00

14.0 The projected energy and cost has been allocated among the ESCOMs is as detailed below(except Renewable source) (In %)

Generating Stations	BESCOM	GESCOM	HESCOM	MESCOM	CESC	TOTAL
A. KPCL Thermal Stations:						
Raichur Thermal Power Station_RTPS 1-7 (7x210)	66.85	14.50	5.00	6.50	7.15	100.00
Raichur Thermal Power Station_RTPS 8 (1x250)	66.85	14.50	5.00	6.50	7.15	100.00
Bellary Thermal Power Station_BTPS-1 (1x500)	66.85	14.50	5.00	6.50	7.15	100.00
Bellary Thermal Power Station_BTPS-2 (1x500)	66.85	14.50	5.00	6.50	7.15	100.00
Bellary Thermal Power Station_BTPS-3 (1x700)	66.85	14.50	5.00	6.50	7.15	100.00
raichur Thermal Power Plant	66.85	14.50	5.00	6.50	7.15	100.00
B. KPCL Hydel Stations:						
Sharavathy Valley Projects (10x103.5 + 2x27.5)	13.00	10.00	38.00	14.00	25.00	100.00
MGHE (4x21 + 4x13.2)	13.00	10.00	38.00	14.00	25.00	100.00
Gerusoppa_Sharavathi Tail Race_STR (4x60)	13.00	10.00	38.00	14.00	25.00	100.00
Kali Valley Project_KVP (2x50 + 5x150 +1x135)	13.00	10.00	38.00	14.00	25.00	100.00
Varahi Valley Project_VVP (4x115 + 2x4.5)	13.00	10.00	38.00	14.00	25.00	100.00
Almatti Dam Power House_ADPH (1x15 + 5x55)	13.00	10.00	38.00	14.00	25.00	100.00
Bhadra Hydro_BHEP (1x2+2x12)+(1x7.2+1x6)	13.00	10.00	38.00	14.00	25.00	100.00
Kadra Power House KPH (3x50)	13.00	10.00	38.00	14.00	25.00	100.00
Kodasalli Dam Power House_KDPH (3x40)	13.00	10.00	38.00	14.00	25.00	100.00
Ghataprabha Dam Power House_GDPH (2x16)	13.00	10.00	38.00	14.00	25.00	100.00
Shivasamudram (4x4 + 6x3)	13.00	10.00	38.00	14.00	25.00	100.00
Shimshapura (2x8.6)	13.00	10.00	38.00	14.00	25.00	100.00
Munirabad Power House (2x9 + 1x10)	13.00	10.00	38.00	14.00	25.00	100.00
Varahi Units # 7 4	13.00	10.00	38.00	14.00	25.00	
C. Central Generating Thermal Stations:						
NTPC_RSTP-I&II (3x200 + 3x500)	49.50	13.25	18.50	7.00	11.75	100.00
NTPC_RSTP-III (1x500)	49.50	13.25	18.50	7.00	11.75	100.00
NTPC_Thalcherl (4x500)	49.50	13.25	18.50	7.00	11.75	100.00
Simhadri Unit 1&2 (2x500)	49.50	13.25	18.50	7.00	11.75	100.00
NTPC Tamilnadu Energy Company Ltd (NTECL)_Vallur TPS Stage 1&2 &3 (3x500)	49.50	13.25	18.50	7.00	11.75	100.00
NTPC Kudgi STPP(800 X3)	49.50	13.25	18.50	7.00	11.75	100.00
NTPC Telagana STPP(800X2)	49.50	13.25	18.50	7.00	11.75	100.00
NTPC Khalgon	49.50	13.25	18.50	7.00	11.75	100.00
Neyveli Lignite Corporation_TPS II_Stage 1 (3x210)	49.50	13.25	18.50	7.00	11.75	100.00
Neyveli Lignite Corporation_TPS II_Stage 2 (4x210)	49.50	13.25	18.50	7.00	11.75	100.00
Neyveli Lignite Corporation_TPS I_Expansion (2x210)		13.25	18.50	7.00	11.75	100.00



20
**CONTROLLER (A & R),
HESCOM, Hubballi.**

234

Neyveli Lignite Corporation_TPS II_Expansion (2x250)	49.50	13.25	18.50	7.00	11.75	100.00
NLC Tamilnadu Power Ltd (NTPL) (Tuticorin) (2x500)	49.50	13.25	18.50	7.00	11.75	100.00
New NLC Thermal Project	49.50	13.25	18.50	7.00	11.75	100.00
MAPS (2x220)	49.50	13.25	18.50	7.00	11.75	100.00
Kaiga Unit 1 & 2 (2x220)	49.50	13.25	18.50	7.00	11.75	100.00
Kaiga Unit 3 & 4 (2x220)	49.50	13.25	18.50	7.00	11.75	100.00
NPCIL-Kudankulam Atomic Power Generating Station (KKNPP_Unit 1 (1x1000))	49.50	13.25	18.50	7.00	11.75	100.00
NPCIL-Kudankulam Atomic Power Generating Station (KKNPP_Unit 2 (1x1000))	49.50	13.25	18.50	7.00	11.75	100.00
DVC_Unit 1 & 2_Mejia TPS (2x500)	49.50	13.25	18.50	7.00	11.75	100.00
DVC_Unit 7 & 8_Koderma TPS (2x500)	49.50	13.25	18.50	7.00	11.75	100.00
D. Bundled Power:						
Bundled Power Coal (old)	46.65	14.86	19.08	7.91	11.50	100.00
Bundled Power Solar (old)	46.65	14.86	19.08	7.91	11.50	100.00
Bundled Power Coal (new)	0.00	0.00	0.00	0.00	0.00	0.00
Bundled Power Solar (new)	46.39	15.12	19.00	7.89	11.60	100.00
E. Independent Power Producers (other than RE):						0.00
UPCL	61.00	10.00	7.00	7.00	15.00	100.00
F. Other Hydro Stations (other than KPCL):						
Priyadarshini Jurala Hydro Electric Station (6x39)	50.00	13.19	20.60	8.00	8.21	100.00
Tunga Bhadra Dam Power House_TBPH (4x9+4x9)	50.00	13.19	20.60	8.00	8.21	100.00
I. Other Charges / Credits / Adjustments:	0.00	0.00	0.00	0.00	0.00	
Returning of Banked power	46.51	13.19	20.60	8.57	11.14	100.00

15.0 Considering the above percentage of Energy allocation , ESCOMs wise energy and cost projected for the financial year 2024-25 is as below:

ESCOMs	Energy requirement in MUs	Power Purchase cost (Rs/Crores)	Average cost (Rs. /unit)
BESCOM	40331.37	25983.85	6.44
GESCOM	11190.46	6505.80	5.81
HESCOM including Hukkeri Society & AEQUS	15983.94	7621.44	4.77
MESCOM	6668.01	3399.74	5.10
CESC, Mysore	10007.95	4902.61	4.90
Total	84181.73	48413.45	5.75

ATTESTED

NOTARY



**CONTROLLER (A & K),
HESCOM, Hubballi.**