Power Department

Power Department

In 2002, Delhi Vidyut Board (DVB) was unbundled into six successor companies i.e. Delhi Power Company Limited (DPCL) which is the Holding Company, Delhi Transco Limited (DTL) which is the Transmission Company (TRANSCO), Indraprastha Power Generation Company Limited (IPGCL) which is the Generation Company (GENCO), and three Private Distribution Companies (DISCOMs) i.e. BSES Rajdhani Power Limited (BRPL), BSES Yamuna Power Limited (BYPL) and Tata Power Delhi Distribution Limited (TPDDL). The Government of NCT of Delhi handed over the management of the business of electricity distribution to three private companies BRPL, BYPL and TPDDL with 51% equity being handed over to the private sector and 49% equity being retained by GNCTD through DPCL.

GOALS OF THE POWER DEPARTMENT:

1. Pollution free power generation

Ensuring that sufficient power is generated for distribution to the entire city and that renewable resources are employed as much as possible for its generation.

2. Strengthened Transmission Infrastructure for Smooth Power Supply

Undertaking activities to develop and strengthen the transmission infrastructure to ensure that there are limited leakages and transmission of power is smooth.

3. Affordable and Reliable Distribution of Power

Facilitating distribution of power across different regions in Delhi to ensure that affordable power is accessible to all.

GOAL 1: Pollution free power generation

Ensuring that sufficient power is generated for distribution to the entire city and that renewable resources are empolyed as much as possible for its generation.

Schemes included:

S.No.	Name of Scheme	Budget Allocation 2021-22 (In Cr)
1	Power Generation in Delhi (Gas based power plants, Solar power plants, Waste to energy plants, Increasing the share of renewable power in Delhi)	51.02 Cr
2	Delhi Solar Policy	1*
3	Generation based incentive scheme for solar Energy	5

* It also includes non solar part as there is no segregation in the scheme

S. No.	Name of the Scheme	Scheme Objective	OC/ OP	Indicator	Actuals		Target	Actuals
					FY 20	FY 21	FY 22	Q2 21-22
1	**Power Generation in Delhi**	Gas based power plants (Total 3 Gas based power plants supplying power to Delhi with a total installed capacity of 1791 MW)	OP	Total power generated from Gas based power plants in MU	6045	5303	5443	2589
			OP	Declared capacity of all gas based power plants in MW	90.16	91.92	85	89.6
			OP	Average cost of generation (Rs. per unit)	5.97	6.09	6.45	6.95
		Solar power plants	OP	% of target of Renewable Purchase Obligation (RPO) met (Target for 2021-22 is 19.18%)	BRPL-3.52 BYPL-1.67 TPDDL - 17.00 NDMC-14.85	BRPL-9.10 BYPL-5.08 TPDDL - 16.56 NDMC-10.72	BRPL-19.18 BYPL-19.18 TPDDL - 19.18 NDMC-19.18	BRPL-9.93 BYPL-6.26 TPDDL - 28.41 NDMC-16.16
			OP	No. of renewable Solar power plants supplying power to Delhi	4	5	12	7

OP- Output, OC- Outcome, NA- Not Available

S. No.	Name of the Scheme	Scheme Objective	OC/ OP	Indicator	Actuals		Target	Actuals
					FY 20	FY 21	FY 22	Q2 21-22
			OP	Contracted capacity of all renewable Solar power plants in/ outside Delhi (in MW)	1758.600	1797.116	2277.600	1957.000
			OC	Total power generated from Solar power plants (in MU)	719.252	908.681	1000	332.386
			OP	Average cost of supply to solar power plants outside Delhi (Rs. per unit)	4.58	4.06	2.88	3.29
		Waste to energy plants	OP	No. of WTE power plants supplying power to Delhi	3	3	3	3
			OP	Installed capacity of all WTE power plants in MW	52	56	56	56
			OC	Total power generated from WTE power plants in MU	351	275	275	114
			OP	Average cost of generation (Rs. per unit)	6.67	6.67	6.67	6.67
		Increasing the share of renewable power in Delhi	OC	Share of renewable energy (solar + WTE+ wind) in total power supply to Delhi (%)	8.19	10.57	19.00	15.06
2	**Delhi Solar Policy**	To implement new and renewable energy projects in the state of Delhi through solar power	OP	No. of Major Solar PV plants (> 1 MW) installed (Cumulative) -	3	3	3	3
			OP	(i) No. Rooftop Solar PV Plants installed in Govt. Office Buildings (Cumulative) -	742	1037	1150	1120
			OP	(ii) No. Rooftop PV Plants installed in Private Buildings (Cumulative) -	3061	3888	4500	4318

S. No.	Name of the Scheme	Scheme Objective	OC/ OP	Indicator	Actuals		Target	Actuals
					FY 20	FY 21	FY 22	Q2 21-22
			OC	Solar Power Capacity commissioned (Cumulative in MW)	316.640	494.516	1825.0	856.392
			OC	Power generated through solar plants inside Delhi (Cumulative in MUs)	359	557.117	750	652.708
3	**Generation based incentive scheme for solar Energy**	To encourage the people to install the Solar Energy System for their energy requirement	OP	No. of consumers availing the generation based incentive	1098	1611	2000	NA
			OC	Amount of generation based incentive given (in Lakh rupees)	311.49	411.42	500	NA

GOAL 2: Strengthened Transmission Infrastructure for Smooth Power Supply

Undertaking activities to develop and strengthen the transmission infrastructure to ensure that there are limited leakages and transmission of power is smooth.

Schemes included:

S.No.	Name of Scheme	Budget Allocation 2021-22 (In Cr)
1	400 / 220 KV Transmission & Transformation Works	1
2	Setting up of public charging stations in Delhi	*

* The scheme is being covered under transport sector

S. No.	Name of the Scheme	Scheme Objective	OC/ OP	Indicator	Actuals		Target	Actuals
					FY 20	FY 21	FY 22	Q2 21-22
1	**400 / 220 KV Transmission & Transforma-tion Works**	Strengthening the reliability of power supply for smooth transmission of power at 220 & 400 KV levels	OP	System Availaibility (%)	98.95	99.30	99	99.10
			OP	Peak Demand (in MW)	7409	6314	8000	7323
			OP	Total number of 400 KV substations functional	4	4	4	4
			OP	Transformation capacity under 400 KV in MVA	5410	5410	5410	5410
			OP	Total Transmission Line Capacity under 400 KV (in Ckt. Km.) [Cumulative]	249.2	249.2	249.2	249.2
			OP	Total number of 220 KV substations functional	41	41	42	41
			OP	Transformation capacity under 220 KV in MVA	14060	14280	14480	14280
			OP	Total Transmission Line Capacity under 220 KV (in Ckt. Km.) [Cumulative]	849.15	860	920	860

OP- Output, OC- Outcome, NA- Not Available

S. No.	Name of the Scheme	Scheme Objective	OC/ OP	Indicator	Actuals		Target	Actuals
					FY 20	FY 21	FY 22	Q2 21-22
2	**Setting up of public charging stations in Delhi**	To provide electric vehicle infrastructure in accordance with the Delhi Electric Vehicle Policy in coherence with the mandate of SNA (as directed by MoP through BEE)	OP	No. of sites for public charging stations aggregated by DTL	NA	NA	NA	NA
			OP	No. of sites for public charging stations for which work order is issued	NA	NA	NA	NA
			OC	No. of public charging stations made functional	NA	NA	NA	NA
			OC	No. of slow charging points made functional (<=3.3 KW)	NA	NA	NA	NA
			OC	No. of moderate/ fast charging points made functional (>3.3 KW)	NA	NA	NA	NA
			OC	No. of battery swapping sites made functional	NA	NA	NA	NA

OP- Output, OC- Outcome, NA- Not Available

GOAL 3: Affordable and Reliable Distribution of Power

Facilitating distribution of power across different regions in Delhi to ensure that affordable power is accessible to all.

Schemes included:

S.No.	Name of Scheme	Budget Allocation 2021-22 (In Cr)
1	BSES Rajdhani Power Limited (BRPL)	*
2	BSES Yamuna Power Limited (BYPL)	*
3	Tata Power Delhi Distribution Limited (TPDDL)	*
4	Smart Meters	NIL
5	Jagmagati Dilli	25
6	Subsidy to consumer through DISCOMs	3090

* Separate budget is not given to DISCOMs

S. No.	Name of the Scheme	Scheme Objective	OC/ OP	Indicator	Actuals		Target	Actuals
					FY 20	FY 21	FY 22	Q2 21-22
	Overall		OP	Peak power demand (MW)	7409	6314	8000	7323
			OP	Total energy consumption (in million Unit)	33082.58327	29533.82568	35096	18083.0
			OP	Average energy consumption (in MW)	3766	3371	NA	4120.75163398693
1	**BRPL**	Electricity load	OP	Peak Load handled by BRPL	3211	2815	3400	3123
		Reduction in net power purchase cost	OP	Net power purchase cost for BRPL (in Rs/unit)	NA	5.81	NA	5.54
		Reduction in AT&C losses	OC	% AT&C losses	8.58	6.87	8.46	6.74
		To strengthen the power distribution network in BRPL command area	OP	Load Shedding (in MU)	0.1785	0.061	NA	0
			OC	Transformation capacity at distribution level (MVA)	6204	6381	6525	6460

OP- Output, OC- Outcome, NA- Not Available

S. No.	Name of the Scheme	Scheme Objective	OC / OP	Indicator	Actuals		Target	Actuals
					FY 20	FY 21	FY 22	Q2 21-22
2	**BYPL**	Electricity load	OP	Peak Load handled by BYPL	1653	1439	1662	1662
		Reduction in net power purchase cost	OP	Net power purchase cost for BYPL (in Rs/ unit)	5.14	4.89	4.72	5.06
		Reduction in AT&C losses	OC	% AT&C losses	8.66	7.46	8.75	6.99
		To strengthen the power distribution in BYPL command area	OP	Load Shedding (in MU)	0	0	0	0
			OC	Transformation capacity at distribution level (MVA)	3455	3515	3579	3533
3	**TPDDL**	Electricity load	OP	Peak Load handled by TPDDL	2069	1854	2106	2106
		Reduction in net power purchase cost	OP	Net power purchase cost for TPDDL (in Rs/ unit)	6.52	6	NA	5.61
		Reduction in AT&C losses	OC	% AT&C losses	7.88	6.48	8.26	6.75
		To strengthen the power distribution network in TPDDL command area	OP	Load Shedding (in MU)	0	0	0	0
			OC	Transformation capacity at distribution level (MVA)	6446.87	6581	6712	6619
4	**Smart Meters**	Efficiency in billing and revenue collection	OC	% of consumers with smart meters (BPRL)	0.04	0.18	0.21	0.07
			OC	% of consumers with smart meters (TPDDL)	10.96	12.53	13.71	13.38
			OC	% of consumers with smart meters (BYPL)	0.008	0.008	0.019	0.018

OP- Output, OC- Outcome, NA- Not Available

S. No.	Name of the Scheme	Scheme Objective	OC/ OP	Indicator	Actuals		Target	Actuals
					FY 20	FY 21	FY 22	Q2 21-22
5	**Jagmagati Dilli**	Conversion of 11KV Bare conductor to insulated conductor posing threat to human lives	OP	Total length of 11kV overhead conductors that are bare (km)	2265	2265	90	NA
			OP	Length of bare over ground conductor where conversion work to put them into insulated conductor has been initiated (km)	NA	NA	NA	NA
			OC	Length of bare over ground conductor where conversion work to put them into insulated conductor has been completed (km)	NA	NA	NA	NA
6	**Subsidy to consumer through DISCOMs**	Subsidy to domestic consumers of electricity consuming upto 400 units per month	OP	Average number of consumers receiving full subsidy every month (<200 Units)	2993000	3080000	3197000	2081000
			OP	Average number of consumers receiving partial subsidy every month (200-400 Units)	1656000	1672000	1771000	2277000
			OC	% of domestic consumers benefitted out of total domestic consumers	91.2	91.4	92	80.7

OP- Output, OC- Outcome, NA- Not Available