

MOST INNOVATIVE POWER DISTRIBUTION COMPANY (PRIVATE SECTOR) - TATA POWER DELHI DISTRIBUTION LIMITED (TPDDL)

Tata Power Delhi Distribution Limited (TPDDL) is a JV

between Tata Power and the Delhi government, with majority 51 per cent stake being held by Tata Power. TPDDL distributes electricity in the north and north western parts of Delhi, serving a populace of 6 million. The company started operations on July 1, 2002, post the unbundling of the erstwhile Delhi Vidyut Board (DVB). With a registered consumer base of 14.39 lakh and a peak load of around 1,704 MW, the company's operations span across an area of 510 sq kms.



TPDDL has been a front-runner in implementing power distribution reforms in the Delhi and is acknowledged for its consumer friendly practices. Since privatisation, the AT&C losses in TPDDL areas have shown a record decline.

AT&C loss is a measure of the overall efficiency of the distribution business, which is the difference between units input into the system and the units for which the payment is collected. Today, AT&C losses stand at 9.87 per cent, which is an unprecedented reduction of around 81 per cent from an opening loss level of 53 per cent in July 2002.

KEY SUCCESS FACTORS:

- **Megawatt Class Grid Connected Power Plant**
This is a very unique project as TPDDL has employed the land on which their materials are being stored as a rooftop solar plant, giving it double utility. As the store was in an open space earlier, by creating a roof to fit the solar panels, the company has also significantly improved the life of their materials by safeguarding it from adverse weather conditions.
- **Innovative technology**
TPDDL has become the first Indian power utility

- TPDDL uses technology intervention to nab power thieves.
- Real-time scheduling financial benefits was ₹24.67 cr in FY15.
- Areas covered: Sultanpuri, civil lines, Bawana, Alipur, Mangolpuri, Kanjhawala, Narela, Vijay Vihar, Adarsh nagar, Jahangir Puri and Samai Pur Badli.
- TPDDL's women literacy program operates through 290 centres covering around 28,000 women.

Parameter	Details
Company	Tata Power-DDL
Ownership	Joint Venture – PPP
Industry	Electric Utility
Founded	2002
Headquarters	New Delhi, India
Products	Electric Power, Consultancy
Revenue	NA
Net Income	₹335.99 cr (2013-14)
Consumer base	14.39 lakh

in Delhi to launch the Automated Demand Response (ADR) project with smart metres. It is one of the first projects in the world where ADR and Advanced Metering Infrastructure for smart meters (AMR) were conceptualised together. The project is implemented in partnership with IBM, Honeywell and Landis+Gyr with the participation of select industrial and commercial consumers of TPDDL, and has been rolled out post approval from the Delhi Electricity Regulatory Commission (DERC). The project's components include ADR infrastructure, smart metres, Radio Frequency (RF) Mesh Based Communication, Meter Data Management System (MDMS) and integration with other Operational Technology & IT systems like Outage Management System (OMS), SAP, etc. This project involves around a hundred 11 kV feeders, fed from 40 grid stations spread across TPDDL's distribution area.

- **AT&C loss reduction**
In the last 12 years, AT&C losses have reduced from 53 per cent to 10 per cent. Of this, 3.2 per cent reduction has been through efforts in reaching to 195,000 consumers residing in 220 JJ (Jhuggi Jhopri) clusters, added into the billing net, thus resulting in additional revenue realisation of over Rs 114 crore p.a.
- **System reliability**
TPDDL's ASAI continued to be around 99.5 per cent in FY14, thus it commissioned five 33/11 kV grid sub-stations in Rohini, Naraina, Model town, Wazirpur and Bawana to improve reliability and meet future load growth.

(For full profile, log on to www.powertoday.in)