

Tata Power Delhi Distribution Ltd

Team Members

Manoj Digambar Salvi	Head (CS,KCG & MMG)
Dipanwita Ray	DGM (CEM,VAS & EaaS)
Sandeep Sharma	HoG -EaaS (Implementation)





ABOUT TATA POWER DELHI DISTRIBUTION LIMITED





"To be the most trusted and admired provider of reliable, competitive power and services, and be the company of choice for all stakeholders"







of the Tata Power Company Limited
(Tata Power)
and
the Government of Delhi
Formed on 1st July 2002

in



License Area: North and North West Delhi (510 sq. km)







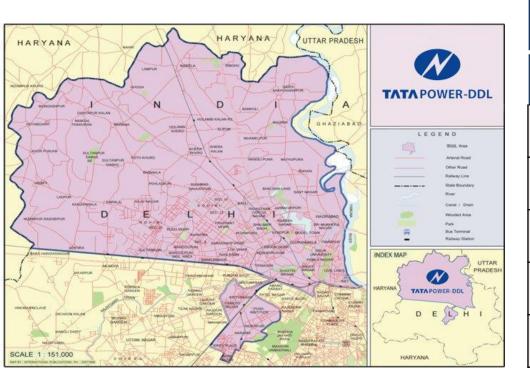
TATA Power-DDL is an ISO 9001(QMS), 14001(EMS), 18001(OHSAS), 27001(ISMS), 8000(SA) certified organization.



ABOUT TATA POWER DELHI DISTRIBUTION LIMITED

We believe in

MAKING A DIFFERENCE



Parameter	Unit	July '02	July'21				
OPERATIONAL PERFORMANCE							
AT&C Losses	%	53.1	6.85				
Peak Load	MW	930	2106				
Length of Network	Ckt. Km	6750	12857				
Consumers	Count Mn	0.7	1.83				
Employees	Count	5600	3300				

One of the Most Successful Private
Power Distribution Utility



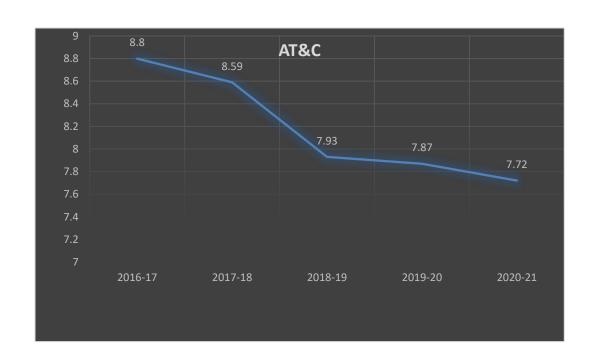


AT&C Losses in last 3 years

FY 16-17	FY 17-18	FY 18-19	% Reduction	FY 19-20	% Reduction	FY 20-21	% Reduction
8.80	8.59	7.93	7.7	7.87	0.8	7.72	1.9



- Tata Power Delhi Distribution Limited has been able to reduce AT&C losses by improving Billing and Collection Efficiency,
- % losses reduction have been high due to high recovery in FY 17-18 and FY 18-19 owing to below,
 - huge recovery of DW arrears and aggressive enforcement related activities







Energy Saving/DSM projects implemented

Year	No of Proposals	Investments	Savings	Payback period
		(Rs. Lacs)	(Rs. Lacs)	(in months)
2017-18	Replacement of non-star ACs with 5 Star ACs	1690	635	32
	UJALA Program	708	1763	5
	Replacement of non-star ACs with 5 Star ACs	633	238	32
2018-19	UJALA Program	261	767	4
	BLDC Fan Scheme	42	29	18
	Replacement of non-star ACs with 5 Star Acs	111	33	40
	UJALA Program	191	703	3
2019-20	BLDC Fan Scheme	19	15	16
	LED bulbs and EE Tubelight with Crompton	100	29	42
	Replacement of non-star ACs with 5 Star Acs	351	112	38
2020-21	UJALA Program	26	103	3
	LED bulbs and EE Tubelight with Crompton	12	52	3





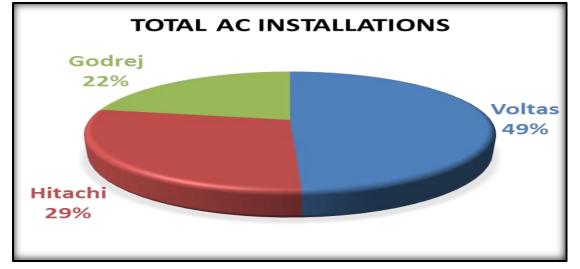
Energy Saving/DSM projects implemented – AC Replacement Scheme

- Objective: Replacement of Non Star rated old ACs with BEE 5 star rated/Inverter ACs
- Target No. of replacements: 20,000 ACs (Capacity: 1 TR& 1.5 TR)
- Online Facility for AC scheme registration
- Participating OEMs- Hitachi, Voltas, Godrej;
- Scheme launched on July 10, 2015
- Old removed ACs collected under the scheme disposed- off in an environment friendly manner

AC Replacement Scheme (Launched in July 2015)								
ΓV	Replaced Quantity	Load reduction	Energy Saving	CO2 reduction				
FY	(Nos)	(MW)	(MU)	(MT)				
FY-15-16	2003	1.72	1.71	569.43				
FY-16-17	7135	6.12	6.06	2017.98				
FY-17-18	7986	7.55	7.41	2467.53				
FY-18-19	2866	2.64	2.65	882.45				
FY-20-21	1350	0.63	1.36	452.88				
Total	21340	18.66	19.19	6390.27				









Energy Saving/DSM projects implemented – LED Lighting Scheme (Crompton)

Under the scheme a complete range of quality LED light products from Crompton Greaves Consumer Electricals Limited (Crompton) offering to Tata Power Delhi Distribution Limited customers.

- LED Bulb- 6W/8W/9W/10W/12W/14W
- LED Tube light 18W/20 W

Impact Assessment

Lighting Program-Crompton							
Year	Quantity	Peak Load reduction Demand Savin		CO2 Reduction			
	(Nos)	(MW)	(MU)	(MT)			
FY 16-17	100000	2.8	3.3	1003			
FY 19-20	64353	0.98	2.86	825.29			
FY 20-21	11475*	0.27	0.63	209.79			
Total	175828	4.05	6.79	2038.08			

^{*}Distribution Count are low due to Pandemic



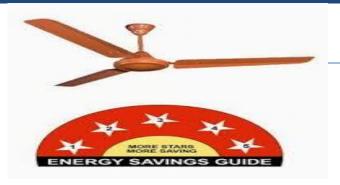








Energy Saving/DSM projects implemented - 5 Star Ceiling Fan Scheme



Under the scheme **BEE 5 Star Energy Efficient Ceiling Fan** from Crompton Greaves Consumer Electricals Limited (Crompton) offering to Tata Power Delhi Distribution Limited customers.

- Energion N Star
- Energion HS

BEE 5 Star Energy Efficient Ceiling Fan							
Product	Product Quantity Peak Load reduction		Demand Saving	CO2 Reduction			
	(Nos)	(MW)	(MU)	(MT)			
50 W Fan	500000	0.7 MW	4.5	1498.5			











Energy Saving/DSM projects implemented – UJALA Scheme

Under the UJALA Yojana Tata Power DDL distributed

- 9 watt LED bulb @Rs. 70
- 20 watt LED T8 Tube light @Rs. 220
- BEE 5 star ceiling fan @Rs. 1110

Tata Power-DDL only DISCOM facilitating EESL as distributing agency engaging Abha members

Product	Warranty (in years) Replacing Conventional Appliances		% Energy Saving	
9W LED Bulbs	53%	1	60 W Incandesent/14 W CFL Bulb	85%/36%
20W LED Tube light	66%	1	T-12/T-8 Florescent Tubelight	56%
50W BEE 5 Star Ceiling Fans	33%	1	Non Star Rated Ceiling Fan 75 W	33%

Savings in Monetary terms









Energy Saving/DSM projects implemented – UJALA Scheme

Ur	Unnat Jyoti by Affordable LEDs for All - UJALA scheme (Launched in March 2017)									
FY	Material	Quantity (Nos)	Load reduction (MW)		CO2 reduction (MT)					
	9W LED Bulbs	635444	17.79	16.01	5331.33					
FY-17-18	20W LED Tube light	83818	2.18	3.92	1305.36					
	50W BEE 5 Star Ceiling Fans	7141	0.18	0.64	213.12					
	9W LED Bulbs	312017	8.74	7.86	2617.38					
FY-18-19	20W LED Tube light	11031	0.29	0.52	173.16					
	50W BEE 5 Star Ceiling Fans	1612	0.04	0.15	49.95					
	9W LED Bulbs	233272	6.53	7.91	2283.78					
FY-19-20	20W LED Tube light	1132	0.03	0.06	17.64					
	50W BEE 5 Star Ceiling Fans	2274	0.06	0.24	68.15					
	9W LED Bulbs	37177	1.04	1.25	416.25					
FY-20-21	20W LED Tube light	18	0.00	0.00	0.00					
	Total	1324936	36.88	38.56	12476.12					

Released during achievement of 1 Mn Distribution in FY 18-19











TATA Power-DDL in Association with EESL
Achieves Landmark Milestone

Distribution of 1 Million LED Lighting Products under UJALA Scheme

Annual Energy Savings - 30 MU

Annual CO₂ Reduction - 9856 MT





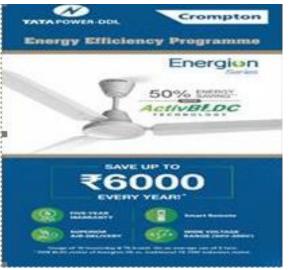
Energy Saving/DSM projects implemented - BLDC Super Efficient Fan Program

- Power consumption : 28 W
- Smart Remote control along with Sleep mode and Timer Mode
- 3 years on-site warranty
- Discount up to 40% on MRP
- Available in 3 color variants (White, Brown, Ivory)



Super-efficient BLDC fan is the new revolution in the ceiling fan industry. BLDC technology in simpler terms, BLDC uses a combination of Permanent Magnets and Electronics to achieve the kind of efficiency and performance it delivers. It is only a matter of time before all old inefficient induction motor fans will be replaced by smart super-efficient BLDC fans. The super energy efficient BLDC fan consumes only 28W at rated speed against the 70W consumption of conventional fans. TATA POWER DELHI DISTRIBUTION LTD. took this initiative during FY 2018-19 to distribute BLDC fans at a discounted price to all segment of consumers. Till date, **3000 Nos** of BLDC fans have been distributed through TATA POWER DELHI DISTRIBUTION LTD. Customer care centers.







Other Energy Saving/DSM projects implemented - LED Street Lighting Project

- Tata Power DDL in consortium with M/s Havells implemented North Delhi Municipal Corporation LED Streetlight Project.
- M/s Havells is a technology partner and Tata Power DDL is service partner for implementation and O&M.
- The project involved replacement of existing HPSV lamps with energy efficient LED light fixtures.
- The total estimated load reduction is 24 MW by replacement of over 1.6 lakh of HSPV lamps with LED lamps.
- It has ensured guaranteed energy saving of 64% per year



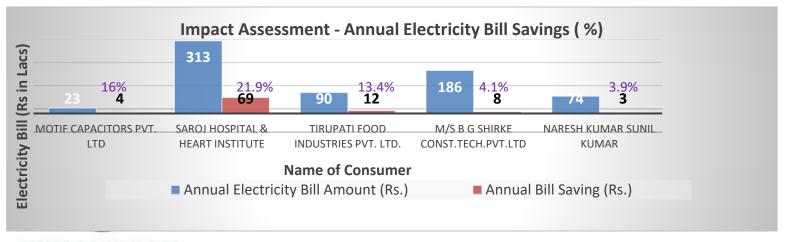


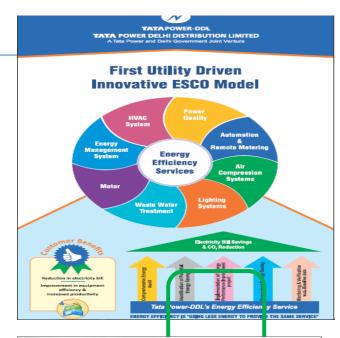
Other Energy Saving/DSM projects implemented – ESCO Services

USP:

- Tata Power Delhi Distribution Limited is only DISCOM to be certified Grade
 2 ESCO by BEE
- Partnership with OEM and Technology solution providers
- Performance guarantee from ESCO agency as per baseline
- Financing Model

Particulars	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	Cumulative
Energy Audit conducted (MW)	18.3	49.8	32.9	16.65	2.3	120
ESCO Implementation (MW)	2	6.58	10	4.23	0	22.81







IT Initiatives @ Tata Power Delhi Distribution Limited - SCADA



SCADA System at TATA Power-DDL is integrated with DMS, OMS, GIS, Power Manager and ERP Systems



Unmanned Automated 66 kV, 33 kV Grid Stations.

CAP on TAP for Automatic Voltage Regulation

Optimize Power Management (Scheduling & Demand Forecast)

Effective Load Management

Improvement in Reliability Indices

In TATA Power-DDL, SCADA has implemented across the network of 1.7 m consumers with configuration of around 65000 Input/output points and more than 70 Remote terminal units (RTUs).

It has 80 unmanned automated 66KV, 33 KV Grid Station.

It has been able to improve the reliability indices and effective load management with Optimization of around 80000 IO points, preparation & segregation of alarms and Automation of 450 Ring Main Units (RMUs) with Feeder Remote Terminal Units (FRTUs) and 450 Fault Passage Indicator (FPI) locations using GPRS communication media.





IT Initiatives - GIS



Edison Award by Edison Electric Institute of US was conferred on TATA Power-DDL for its operational excellence and integrating its GIS with other applications such as network planning, operations, commercial and asset management.



Complete Geography mapped.

Accurate Land base to the extent of 1 meter accuracy

Network at all voltage level mapped

Grid and Substation Internal Equipment Mapped

1.8 Mn customers have been mapped on GIS

TATA Power-DDL has mapped all the grid stations, substations, transformers, lines, cables and consumers that are part of the distribution electrical network into GIS.

TATA Power-DDL is one of the first utilities in India to implement an enterprise wide GIS

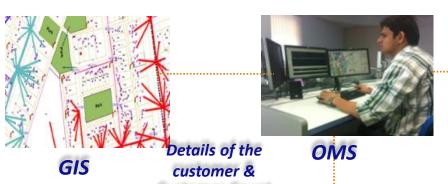




IT Initiatives @ Tata Power Delhi Distribution Limited- ADMS

- TATA Power-DDL has implemented Advanced Distribution Management (ADMS) **Distribution** System and Network Automation (Self Healing) technologies.
- Integration of SCADA-GIS-DMS system.
- Collects data from field on Data Collector Unit (DCU) and Interface it with exiting system such as Outage Management System, SAP Maintenance, Field Force Automation, etc.
- Objective is to provide reliable system for data acquisition, automated fault restoration and better power supply.

Integrated GIS-OMS-SCADA-CRM



Customer Count

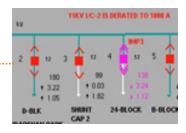
DETAILS OF OUTAGES/SHUTDOWNS THAT WOULD BE TENTATIVELY EXPERIENCED AGAINST YOUR ELECTRICIT

Tata Power Delhi Distribution

Limited website with

estimated time of restoration

Information of an Outage



SCADA

Details like repair history, Crew comments, ETR also visible at SAP-CRM

Interactive Voice Response(IVR) system



SAP - CRM

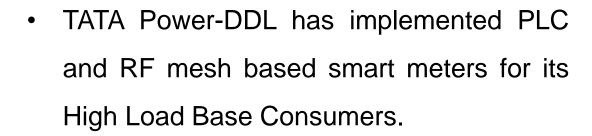


with you Non-Stop

IT Initiatives – Smart Meters



Tata Power Delhi Distribution Ltd, launched a mega drive in the month of Sep 2017, to rollout Smart metering services for its consumers. The firm has rolled out 250,000 smart meters in the first phase of its Advanced Metering Infrastructure (AMI) project.



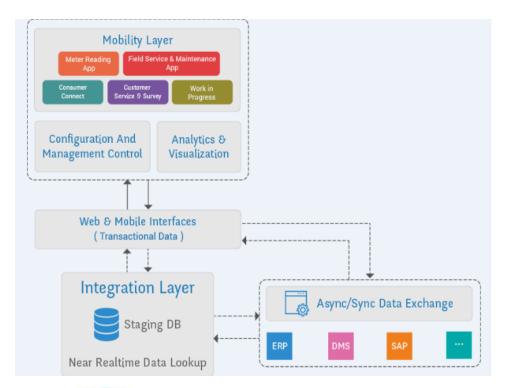
 This has helped TATA Power-DDL reduce its OPEX for Meter Communication, Improve Power Quality, 100% auditing and asset management and automated network topology management





Field Force Automation

FFA helps in Crew & Resourcing Monitoring



- Customer service through mobile workforce is the key to exceed the expectations of the consumer.
- Field Force Automation (FFA) is a system which optimizes the various tasks in hand.
- FFA schedules & dispatches the nearest Crew to provide faster service to the consumers.
- This system not only enhances the service level but also completely tracks the allocation of workforce





Innovative Projects Implemented @Tata Power Delhi Distribution Limited – Talk Back Seals



New Polycarbonate seals of pre-determined transparency by doping of a unique agent



Infra Red Sensor
DEVELOPED to
check
authenticity of
seals by
verifying the
transparency







Technologically advanced solution available to detect meter tampering at site

Cannot be copied easily, as the compound doped with polycarbonate is difficult to disintegrate.

Visually
identical to
normal seals
and hence the
thieves can not
easily detect
the difference

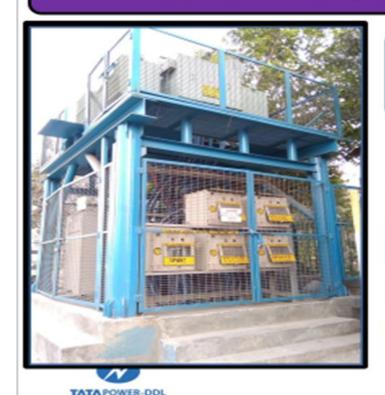
These seals being used in major theft prone areas like Narela, **Bawana** and other J J Cluster





Innovative Projects Implemented @Tata Power Delhi Distribution Limited – Vertical Sub-stations

11 KV Vertical Substation



Won First Prize in Knowledge fair held in TATA POWER, Mumbai

Two Tier arrangement of Electrical equipment's

1000 KVA DT on first floor with platform

10.5 Sq.mm covered(70% Space Reduction)

First time in India

Inaugurated by Chief Engineer-CEA

with you Non-Stop

- Space constraints in Tata
 Power Delhi Distribution
 Limited area to install
 sub-stations
- Delay in release of new connections and load enhancement due to space constraints
- Vertical sub-stations will help to reduce this constraint
- More than 70 High Revenue connections suspended last year due to space constraints





Innovative Projects Implemented @Tata Power Delhi Distribution Limited – Use E Rickshaws for Maintenance

- In congested area it is not possible to take maintenance vehicles to carry out repair.
- Tools and tackles have to taken on foot resulting into delay in restoration of supply.
- In house designed E
 Rickshaws being used for
 maintenance works in narrow
 lanes.
- This has resulted into nearly 20% reduction in Mean Time Taken to Restore/ Repair







RE Purchase and RPO Purchase

	Ren	newable Energ	y purchased from \	Wind/ Solar P\	/	
	Annual Energy purchased in million kWh FY 18-19	% share	Annual Energy purchased in million kWh FY 19-20	% share	Annual Energy purchased in million kWh FY 20-21	% share
Wind Energy	0	0	0	0	53	4 %
Solar PV	78.84	32 %	127	16 %	582	47 %
Other	167.61	68 %	655	84 %	607	49 %

			RPO Target			
RPO Targets	FY 18-19 FY 19-20		FY 19-20		FY 20-21	
	Target	Achieved	Target	Achieved	Target	Achieved*
Solar	4.75 %	4.75 %	6.75 %	6.75 %	7.25 %	7.25 %
Non-solar	9.5 %	9.5 %	10.25 %	10.25 %	10.25 %	10.25 %

- For achieving the FY 2020-21 compliance of Solar a short term Bilateral purchase arrangement has been done with Karanatala through PTC.
- For achieving the FY 2020-21 compliance of Non Solar a short term arrangement has been done with Himachal Pradesh (HPSEBL) through Kreate Energy.
- > RPO compliance for FY 20-21 complied in totality through physical power without purchase of RECs

Frequency of Review

Quarterly review by CEO

Monthly review by Chief (Comm) and Head (CS,KCG & MMG)

Fortnightly review by HoG(DSM)

Roles and Responsibilities of Energy Manager/DSM Cell:

- 1. Carry out Load Research of the Discom
- 2. Formulate Energy Efficiency and DSM schemes based on the findings of Load Research
- 3. Implement and monitor the performance of the schemes.
- 4. Carry out energy conservation awareness programs
- 5. Promotion of BEE star levelled appliances among the consumers

Energy Efficiency/awareness training programs:

- 1. Energy efficiency awareness session conducted on monthly basis with RWAs and IWAs.
- 2. Training programs are organised under BEE Capacity Building Program
- 3. Camps organised at various location



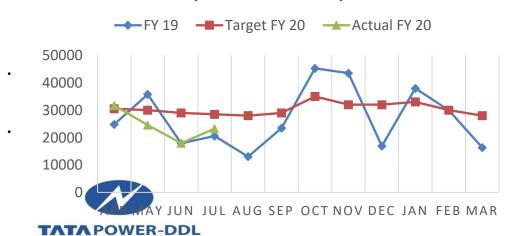


Team work, Employee Involvement & Monitoring

Monitoring and Reporting System:

- 1. Target setting for the savings in electricity consumption.
- 2. Monitor overall energy and determine the contribution made by specific energy efficiency actions to these overall savings.
- 3. Reporting achievement of energy saving targets, and the verification of savings
- 4. Carry out regular reviews on monthly basis

MANAGING POINT MONITORING (ILLUSTRATIVE)



Budget for Energy Conservation:

Separate budget is allocated each year for carrying out Energy Conservation related activities like URJA mela, spreading awareness through SMS, print media etc.



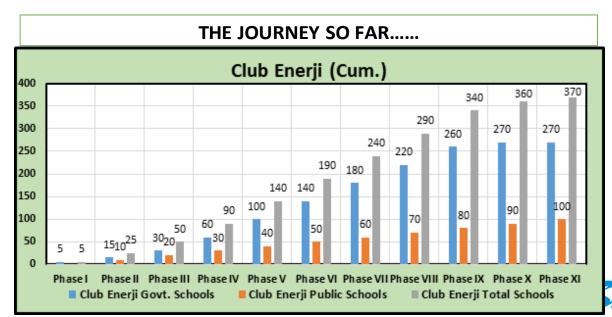
Employee involvement - Energy Conservation projects implemented through employees



- Tata Power-DDL Club Enerji is an effort to sensitize and school students, their family members & neighbours about Energy Conservation, Solar, Renewable Energy, Climate Change & Safety and hence bring behavioural change in them.
- Tata Power-DDL Club Energy's journey saw the first light of life in the year 2005 with merely 5 schools. We have completed XI phases so far and 370 schools are now our existing Club Enerji Members.

<u>Urja Mela</u>

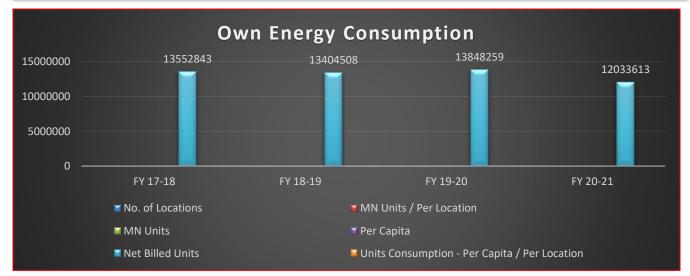
- This is an annual event organised in schools in which the different competitive activities like painting, quiz etc. are organized.
- Annually more than 2000 students from more than 200 Schools participate in this Urja Mela.





Employee involvement - Own Energy Consumption @ Tata Power Delhi Distribution Limited

Parameters	FY 17-18	FY 18-19	FY 19-20	FY 20-21
No. of Locations	347	383	380	399
MN Units / Per Location	0.0386	0.0352	0.036442787	0.030159431
MN Units	13.4	13.5	13.848259	12.03
Per Capita	0.004018	0.004025	0.004196	0.003646
Net Billed Units	13552843	13404508	13848259	12033613
Units Consumption - Per Capita / Per Location	11.57	10.47	11.0421	9.1378



Despite an increase in the no. of office locations in FY 18-19, consumption of MN units per location has witnessed a decreasing trend.



(Quality, Safety, Health, Environment, Energy & Social Accountability)

Tata Power-DDL is committed to deliver world class services and reliable power through energised workforce leading to ever-increasing satisfaction of its consumers.

We also ensure safe & healthy environment and workplace conditions, energy efficient services, with due regard to environmental protection, and prevention of pollution compliance of applicable laws and regulations.

This will be achieved by:

- Complying with all the requirements of ISO 9001, ISO 14001, ISO 45001, ISO 50001 and SA 8000 management standards through engaged workforce
- Complying with all applicable legal and other requirements related to Safety, Health, Energy use,
 Consumption and Efficiency, Environment and Social Accountability
- Continually improve our quality, environmental, energy, occupational health & safety and social performance in each area of work by establishing and reviewing objectives & targets
- Commitment to ensure the availability of information and of necessary resources to achieve objectives and targets
- Creating a work environment which encourages team work, safe work practices, learning & innovation
- Investigating workplace incidents in order to eliminate/mitigate unsafe conditions and practices
- Conducting our businesses in a socially and ethically responsible manner
- Supporting the purchase of energy-efficient products and services, and design for energy performance improvement
- Enhancing Quality, Safety, Health, Environmental, Energy and Social Accountability awareness amongst all stakeholders through communication and training

This policy will be made available to interested parties.



TATA POWER DELHI DISTRIBUTION LIMITED
(A Tata Power and Delhi Government Joint Venture)



Employee involvement - Own Energy Consumption @ Tata Power Delhi Distribution Limited

Accreditation to ISO 50001:2018

- Tata Power-DDL got certified to ISO 50001:2018 (Energy Management System) in May 2018.
- The main objective of the standard is to improve energy-related performance and energy efficiency to further identify energy reduction opportunities.
- 27 Employees trained for conduct of internal EnMS audits.

Other Initiatives:

- Awareness sessions on energy conservation within the organization.
- Labeling of switches (Red Green).
- Procurement of 5-star rated equipment for offices AC, Transformer,
 LED light, Fans, Refrigerator.



MANAGEMENT SYSTEM CERTIFICATE

Certificatio no.: 10000444094-MSC-RVA-IND Initial certification date 10 July 2019 Valid: 10 May 2021 – 09 May 2024

This is to certify that the management system of

Tata Power Delhi Distribution Limited

NDPL House, Hudson Lines, Kingsway Camp, New Delhi - 110009, India and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Energy Management System standard: ISO 50001:2018

This certificate is valid for the following scope:

Provision of services for the distribution of power to north and north west Delhi, including renewable generation, operations, commercial, engineering & all support functions

1864

Place and date:



MGMT. SYS.

IAF

Forthe beuing citics : DNY - Business Assurance Zwoiseweg 1, 2994 LB Barendrecht, Netherlands



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Other Innovative Technologies @Tata Power Delhi Distribution Limited – Automated Demand Response

With ADR implemented for commercial and industrial consumers (>100 KW Load), TATA Power-DDL is can reduce load upto nearly 34 MW via managing critical peak demands and thus maintaining a flat load profile and reducing grid stress.

TATA Power-DDL is one of the first Indian Power Utilities to launch Auto Demand Response (ADR) project with Smart meter in India

About the Project:

First Utility initiated Smart Meter based ADR program in the country Project approved by DERC

Project Objectives:

- To manage peak demand
- To manage Grid Stress situations

Pilot Project to cover 250 nos. of high end consumers with sanctioned load of 100 KW and above with an objective to reduction of peak load.

Project Components include:

- Automated Demand Response infrastructure including DR server and site controllers
- Smart Meters
- RF Mesh based Communication
- MDMS and its integration with other OT & IT systems like OMS, SAP, ADR.

Collaborative partnership with selected vendors





Other Innovative Technologies @Tata Power Delhi Distribution Limited – Battery Energy Storage System

Tata Power-DDL has collaborated with AES & Mitsubishi for the Installation and behavior characteristic study of 10 MW Battery Energy Storage system (BESS).



Battery Testing Lab

- Tata Power-DDL has set up first of its kind battery test bed for 8kW system.
- It has 3 bays where currently five batteries of different chemistries (Lithium ion, Advanced Lead Acid, Sodium ion, ultra capacitor based lead acid and gel based lead acid) are under testing
- Motor loads have also been incorporated by connecting the Pumps available at the grid station to see the effect in terms of drops in voltage and sudden surge in current.
- There is an additional 10 KW Solar mini grid test bed. The site is used for the load simulation and data acquisition of the actual off-grid conditions existing in India.





Other Innovative Technologies @Tata Power Delhi Distribution Limited – Smart Grid Lab

Showcasing the Future

Smart Grid Lab - "In-House R&D Unit"

TATA Power-DDL has set up a Smart Grid Lab in Rohini, first of its kind in India to showcase futuristic technologies and same has received the Department of Scientific and Industrial Research's (DSIR) accreditation. The lab has been accredited as the 'inhouse R&D unit.'







Smart Grid Technology Roadmap:

Latest Technologies to be implemented

- -Advanced Metering Infrastructure
- -Field Force Automation
- -Enterprise Service Bus
- -Unified Communication
- -Business Intelligence

<u>Smart Grid Lab – The only one of its kind in the country:</u>

First-hand witness of future technologies:

SCADA & Advanced Distribution Management

System(ADMS)

Self-Healing Grid

Automated Demand Response

Home Automation

Microgrid Implementation

Distribution Automation

Energy Storage Systems





Steps/Efforts taken to create awareness in public for DSM



DSM Scheme stalls organized at various Events



LED Camps organized at RWA meetings



DSM Scheme Advertisement in print media



Awareness via SMS



Construction of the constr

DSM Camps organized at various Locations



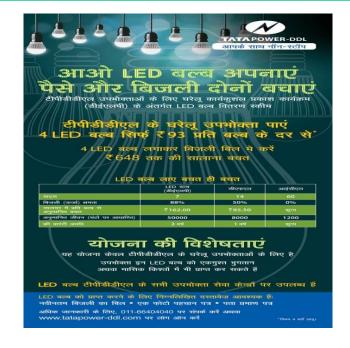




Steps/Efforts taken to create awareness in public for DSM

Pamphlets for various DSM and Energy Efficiency Schemes distributed among consumers















टीपीडीडीएल एलईडी उत्पाद ६० बिजली में अनुसंधान को फीसद कम कीमत पर देगी

नई दिल्ली (एसएनबी)। टाटा पावर दिल्ली डिस्ट्रोब्यूशन लिमिटेड (टीपीडीडीएल) ऊर्जा दक्षता तथा संरक्षण को बढावा देने के लिए लगातार प्रयासरत है। उसकी कम कीमत पर एलईडी उत्पाद देने की योजना विजली विजली खपत में तो कभी लाएगी साथ ही उपभोक्ताओं के विलों में भी कमी आएगी। यह बात टीपीडीडीएलके सीईओ एवं प्रबंध निदेशक प्रवीर सिन्हा ने कही। वह क्राम्पटन ग्रीवर कंज्यमर लिमिटेड के साथ मिलकर उपलब्ध कराने की योजना के शुभारंभ अवसर पर बोल रहे थे। इस अवसर पर टीपीडीडीएल थे। कार्यक्रम का आयोजन हडसन रोड पर

ग्रीव्स कंज्यूमर लिमिटेड के साथ मिलकर उपभोक्ताओं को सस्ती दर पर एलईडी बल्ब उपलब्ध कराने की योजना शुरू की है। इसके तहत ग्राहकों को एलईडी उत्पादों पर 60

 उपभोक्ता सेवा केंद्रों पर शुक्रवार सवह 10 बजे से शाम 5 बजे तक खरीवे जा सकते हैं एलईडी लाइटिंग उत्पाद

एलईडी लाइटिंग के 11 उत्पादों पर ड्रिवन ग्लोब्यूल्स, ट्यूब लाइट्स, पैनल और डाउन अप्रैल, 2016 से शरू होकर चार सितंबर तक

उन्होंने कहाकि कंपनी ऊर्जा बचत को ऊर्जा खप्त कम करने के लगातार प्रयास कर बढ़ावा देने और उनके बिजली बिलों में

एलईडी लाइटिंग उत्पाद कम कीमतों के

श्री सिन्हा ने कहाकि सीएफएल और एफटीएल के बदले एलईडी अपनाने से ऊ र्जा की 40 से 50 फीसदी बचत की जा सकती है। सभी एलईडी लाइटिंग उत्पादों सेल्स काउंटरों पर सोमवार से शक्रवार

लिए टाटा पावर दिल्ली डिस्टब्य्शन लिमिटेड इंडिया स्मार्ट ग्रिंड और नेताजी सभाष इंस्टीटय इनोर्थीन हार्डवेयर आधारित प्रतियोगिता में युवing program for its customers आविष्कार व विचार प्रस्तत करते हैं।



बिजली उपकरणों पर

उपकरण के अधिकतम खुदरा मुल्य 🏻 ग्राहक सेवा केंद्र पर जाकर उपकरण

उपभोक्ता अपने इलाके में स्थित

tomers at discounted जाएगी। इस योजना की शुरुआत टाटा

पॉवर दिल्ली डिस्टीब्यशन कंपनी ने की है। उपभोक्ता केंद्रों पर जाकर इन नई लिए यह छूट दी जा रही है। यह छूट 6 माह तक जारी रहेगी

with you Non-Stop

रही हैं। इसी के तहत टीपीडीडीएल ने क्राम्पटन कमी लाने के उद्देश्य से यह योजना शुरू की खरीदा जा सकता है।

Tata Power - DDL, with Crompton Greaves Consumer Electricals Ltd (CGCEL), launched the energy-efficient LED Lighting programme for its customers in North and North -West Delhi on April 6. This is the first utility-based discounted LED programme, under which the complete range of LED lighting products with 11 assortments would be offered to customers.

Vision of Tata Power Delhi Distribution Limited on EE/DSM

<u>Vision of Tata Power Delhi Distribution</u> <u>Limited on EE/DSM</u>

- Control, reduce and influence electricity demand;
- Encourage consumers to amend their electricity consumption pattern both with respect to timing and level of electricity demand for efficient use of energy;
- Reduce the environmental damage by reducing the emission of greenhouse gases; Supplement national level efforts for implementation of various DSM programs set out by the Bureau;
- Make strategic efforts to induce lasting structural or behavioral changes in the market that shall result in increased adoption of energy-efficient technologies, services, and practices;

Actions taken to achieve the vision:

- Dedicated DSM group created in the organisation.
- MoU signed with the following :
 - a. BEE under its "Capacity Building Program"
 - b. M/s EESL for UJALA and Super Efficient Appliances.
 - c. M/s TERI to carry out Energy Audits and implementation of projects for Industrial consumers.
 - d. M/s Voltas for distribution of 5 star Air Conditioners.
 - e. M/s Crompton for distribution of 5 star LED lights.
 - f. M/s Atomberg for distribution of BLDC fans.
- Load Research carried out in association with M/s TERI and various Energy Efficiency scheme prepared and are under implementation.
- 7 ESCOs empanelled to implement Energy Efficiency projects
- Policy advocacy with Regulator to provide DSM budget.





AWARDS & RECOGNITIONS



Tata Power Wins the JRD QV Award-2021



CII Energy Efficiency Award-2019





GPTW Ranking 2021



CII-Innovative Financing in ESCO Model - 2019



Golden Peacock Award-2020



CII Energy Efficiency Award-2020



AWARDS & RECOGNITIONS



Rooftop Solar Enabler-Utility Award



National Award for Promotion/Facilitation of Rooftop Solar Programs



National Award for Innovative Services beating 264 Companies



Green grid award at "4th Innovation with Impact Awards for Discoms" by ICC



Asian Utility Innovators Award for "Demand Side Management Project"





"Skoch Order of Merit" Award for DISCOM driven Renewable and Energy Efficiency Programs



"DISCOM driven ESCO model for energy efficiency improvement in C&I category load" shortlisted under Energy Saving Product / Service Award".



Any other relevant information - Awards

TATA POWER-DDL

S. No.	Award
1	Power Utility of the year Awards at 14th ASIAN POWER AWARDS 2018 held at Jakarta, Indonesia
2	Innovative Technology of the year for ADMS Awards at 14th ASIAN POWER AWARDS 2018 held at Jakarta, Indonesia
3	"OUTSTANDING GREEN CAMPAIGNER" AWARD organized by India Green Energy Awards at New Delhi, September'2018
4	Tata Power-DDL Bags 3 Awards at the ICC – 6th INNOVATION WITH IMPACT AWARDS FOR DISCOMS 2018 - i) Innovation with Impact, ii) Improve Operational Efficiency iii) Quality of Service
5	Tata Power-DDL bagged 3 awards at the India Smart Grid Forum Innovation Awards'2019 organized by ISGF during the India Smart Utility Week (March'19),under the following categories: i) Best Smart Grid project in India by Utility: Gold Award (for Advanced Distribution Management System) ii) Smart Technology of the Year: Diamond Award (for Big Data and Analytics) iii) Smart Technology of the Year: Certificate of Merit (for Field Force Automation
6	TATA Power-DDL wins "Innovative Financing and ESCO Model" Award at the National Energy Efficiency Circle Competition organized by Confederation of Indian Industry (CII) in 2017 and 2019
7	Tata Power-DDL has won the 'Best Performing Power Distribution Utility' Award at the CBIP Awards'2018,
8	TATA Power Delhi Distribution conferred with PLATINUM AWARD for Best Energy Efficiency Programs/ Projects of the Year at India Smart Grid Innovation Awards 2018 (March'2018)



Thank You



