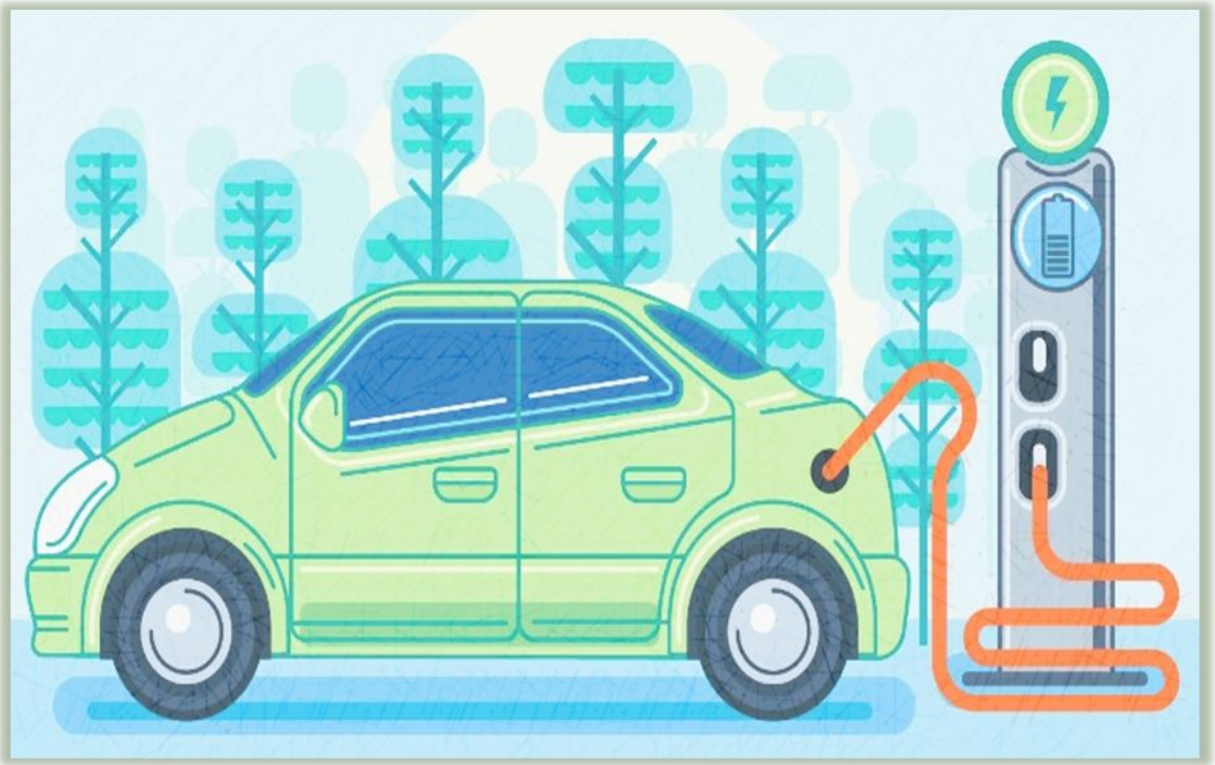




भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority



इलेक्ट्रिक वाहन (ईवी) सार्वजनिक चार्जिंग स्टेशन (पीसीएस)
मासिक विद्युत उपभोग रिपोर्ट

Electric Vehicles (EVs) Public Charging Stations (PCS)
Monthly Power Consumption Report

अप्रैल 2025 / April 2025

स्वच्छ ऊर्जा और ऊर्जा परिवर्तन प्रभाग
Clean Energy and Energy Transition Division

C O N T E N T S

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FOREWORD

India's insufficient petroleum reserves have led to heavy reliance on crude oil and natural gas imports, making it the third-largest oil importer globally, following the US and China. Approximately 82.8% of India's crude oil and 45.3% of its natural gas are imported. The consumption of petroleum products significantly contributes to air pollution, creating a pressing need to curb their usage and tackle the pollution issue. Moreover, the substantial size of crude oil imports burdens the Indian economy, necessitating a shift toward cleaner fuel alternatives and technologies to reduce dependence on petroleum products and safeguard the environment.

The Ministry of Power, with aim to accelerate the E-mobility transition in the country by accelerating development of Public Charging Infrastructure (PCS) for electric vehicles, has published revised consolidated guidelines titled "Guidelines for Installation and Operation of Electric Vehicle Charging Infrastructure-2024" dated 17.09.2024.

Further, after review of FAME-II and EMPS-2024, Ministry of Heavy Industries (MHI) formulated PM Electric Drive Revolution in Innovative Vehicle Enhancement (PM E-DRIVE) scheme with the approval of the Union Cabinet. The number of vehicles and the expenditure under EMPS-2024 (implemented for the period from 1st April 2024 to 30th September 2024) is subsumed under the number of vehicles and outlay of PM E-DRIVE Scheme. The PM E-DRIVE Scheme, with an outlay of ₹10,900 crore, shall be implemented from 1st October 2024 to 31st March 2026, for faster adoption of electric vehicles (EVs), setting up of charging infrastructure and development of EV manufacturing eco-system in the country.

In this regard, information on PCS are required for assessment of progress made in development of necessary charging infrastructure in meeting the various stated objectives like development of safe & reliable EV charging eco system, ensuring energy security & reduction of emission intensity etc., and to take further policy intervention. The data on energy consumption in these EV charging stations is also important for the purpose of load forecasting, distribution system planning and integrated resource planning in the country.

This report is based on the data/information submitted by various utilities. Information from other utilities is awaited to make this report more comprehensive.

State/UT wise-Electricity Consumption Details - EV charging stations in India						
Clean Energy & Energy Transition Division, Central Electricity Authority						
Region	April,2025			April, 2025 to March, 2026		
State/UT	Electricity Consumed in EV Charging Stations (excl. Heavy Duty) (in MU)	Electricity Consumed in Heavy Duty PCS only (in MU)	Total Electricity Consumed (in MU)	Electricity Consumed in EV Charging Stations (excl. Heavy Duty) (in MU)	Electricity Consumed in Heavy Duty PCS only (in MU)	Total Electricity Consumed (in MU)
Northern						
Delhi	5.84	21.80	27.64	5.84	21.80	27.64
Haryana	1.10	0.13	1.23	1.10	0.13	1.23
Rajasthan	0.89	0.20	1.09	0.89	0.20	1.09
Uttar Pradesh	3.45	2.64	6.09	3.45	2.64	6.09
Chandigarh	-	-	-	-	-	-
Himachal Pradesh	-	-	-	-	-	-
UT Ladakh	0.12	0.00	0.12	0.12	0.00	0.12
Uttarakhand	-	-	-	-	-	-
Western						
Gujarat	0.52	6.42	6.94	0.52	6.42	6.94
Madhya Pradesh	0.10	0.14	0.24	0.10	0.14	0.24
Maharashtra	4.51	20.87	25.38	4.51	20.87	25.38
Chhattisgarh	-	-	-	-	-	-
Dadra & Nagar Haveli and Daman & Diu	-	-	-	-	-	-
Southern						
Andhra Pradesh	0.15	1.86	2.01	0.15	1.86	2.01
Karnataka	2.01	14.50	16.51	2.01	14.50	16.51
Kerala	1.15	0.23	1.38	1.15	0.23	1.38
Tamil Naidu	0.83	1.23	2.06	0.83	1.23	2.06
Telangana	0.84	5.33	6.17	0.84	5.33	6.17
Puducherry	-	-	-	-	-	-
Eastern						
Bihar	1.03	0.19	1.22	1.03	0.19	1.22
Odisha	0.04	0.00	0.04	0.04	0.00	0.04
West Bengal	0.18	0.18	0.36	0.18	0.18	0.36
DVC	-	-	-	-	-	-
Jharkhand	-	-	-	-	-	-
Sikkim	-	-	-	-	-	-
North Eastern						
Assam	0.73	0.98	1.71	0.73	0.98	1.71
Arunachal Pradesh	-	-	-	-	-	-
Manipur	-	-	-	-	-	-
Meghalaya	-	-	-	-	-	-
Mizoram	-	-	-	-	-	-
Nagaland	-	-	-	-	-	-
Tripura	-	-	-	-	-	-
Grand Total	23.45	76.72	100.18	23.45	76.72	100.18
- : Data/Information not available/reported by DISCOM/Utility.						
Note: As per the data furnished by State DISCOMs/ Utilities. The electricity consumption in MU is rounded off to nearest hundredth place.						

DISCOM/Utility-wise- Electricity Consumption Details - EV charging stations in India						
Clean Energy & Energy Transition Division, Central Electricity Authority						
	April,2025			April, 2025 to April, 2025		
State-UT/DISCOM	Electricity Consumed in EV Charging Stations (excl. Heavy Duty) (in MU)	Electricity Consumed in Heavy Duty PCS only (in MU)	Total Electricity Consumed (in MU)	Electricity Consumed in EV Charging Stations (excl. Heavy Duty) (in MU)	Electricity Consumed in Heavy Duty PCS only (in MU)	Total Electricity Consumed (in MU)
Chandigarh	-	-	-	-	-	-
EWEDC	-	-	-	-	-	-
Delhi	5.84	21.80	27.64	5.84	21.80	27.64
BRPL	2.80	5.07	7.87	2.80	5.07	7.87
BYPL	0.27	6.96	7.23	0.27	6.96	7.23
NDMC	0.02	0.00	0.02	0.02	0.00	0.02
Tata Power-DDL	2.74	9.78	12.52	2.74	9.78	12.52
Haryana	1.10	0.13	1.23	1.10	0.13	1.23
DHBVN	1.02	0.08	1.10	1.02	0.08	1.10
UHBVN	0.08	0.05	0.14	0.08	0.05	0.14
Rajasthan	0.89	0.20	1.09	0.89	0.20	1.09
AVVNL	0.10	0.00	0.10	0.10	0.00	0.10
JDVVNL	0.04	0.00	0.04	0.04	0.00	0.04
JVVNL	0.75	0.20	0.95	0.75	0.20	0.95
Uttar Pradesh	3.45	2.64	6.09	3.45	2.64	6.09
Noida Power (NPCL)	0.03	0.00	0.03	0.03	0.00	0.03
PVVNL	3.23	1.31	4.53	3.23	1.31	4.53
DVVNL	0.19	1.33	1.52	0.19	1.33	1.52
Himachal Pradesh	-	-	-	-	-	-
-	-	-	-	-	-	-
UT of J&K and Ladakh	0.12	0.00	0.12	0.12	0.00	0.12
-	-	-	-	-	-	-
Uttarakhand	-	-	-	-	-	-
-	-	-	-	-	-	-
Gujarat	0.52	6.42	6.94	0.52	6.42	6.94
DGVCL	0.10	2.93	3.03	0.91	32.90	33.81
MGVCL	0.04	0.04	0.08	0.16	0.16	0.32
PGVCL	0.04	0.78	0.82	0.52	8.28	8.81
Torrent Power	0.07	1.74	1.81	0.67	19.63	20.30
UGVCL	0.06	0.00	0.06	0.81	0.05	0.87
GIFT	0.01	0.03	0.03	0.01	0.03	0.03
Deen Dayal Port	0.01	0.00	0.01	0.01	0.00	0.01

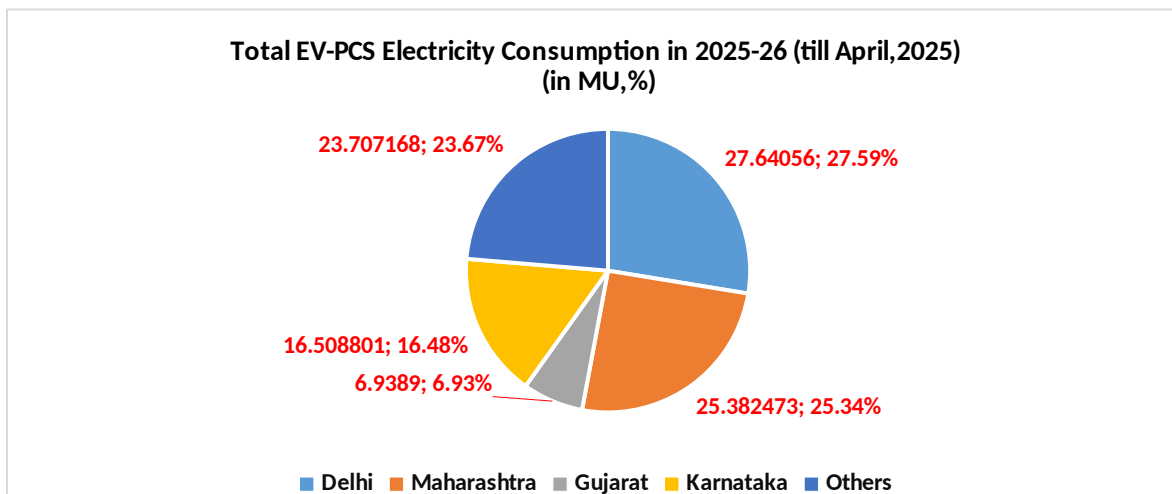
DISCOM/Utility-wise- Electricity Consumption Details - EV charging stations in India						
Clean Energy & Energy Transition Division, Central Electricity Authority						
	April,2025			April, 2025 to April, 2025		
State-UT/DISCOM	Electricity Consumed in EV Charging Stations (excl. Heavy Duty) (in MU)	Electricity Consumed in Heavy Duty PCS only (in MU)	Total Electricity Consumed (in MU)	Electricity Consumed in EV Charging Stations (excl. Heavy Duty) (in MU)	Electricity Consumed in Heavy Duty PCS only (in MU)	Total Electricity Consumed (in MU)
TPL-Surat	0.18	0.00	0.18	0.18	0.00	0.18
Madhya Pradesh	0.10	0.14	0.24	0.10	0.14	0.24
MPMKVVCL	0.10	0.14	0.24	0.10	0.14	0.24
Maharashtra	4.51	20.87	25.38	4.51	20.87	25.38
AEML	1.69	3.48	5.17	1.69	3.48	5.17
Brihan Mumbai (BEST)	0.51	3.24	3.74	0.51	3.24	3.74
MSEDCL	2.31	14.16	16.47	2.31	14.16	16.47
NUPPLP	0.00	0.00	0.00	0.00	0.00	0.00
Chhattisgarh	-	-	-	-	-	-
-	-	-	-	-	-	-
Dadra & Nagar Haveli and Daman & Diu	-	-	-	-	-	-
-	-	-	-	-	-	-
Andhra Pradesh	0.15	1.86	2.01	0.15	1.86	2.01
APEPDCL	0.07	0.19	0.26	0.07	0.19	0.26
APSPDCL	0.07	1.67	1.74	0.07	1.67	1.74
Karnataka	2.01	14.50	16.51	2.01	14.50	16.51
BESCOM	1.78	14.19	15.97	1.78	14.19	15.97
CESC Mysore	0.10	0.23	0.34	0.10	0.23	0.34
GESCOM	0.01	0.00	0.01	0.01	0.00	0.01
HESCOM	0.03	0.00	0.03	0.03	0.00	0.03
MESCOM	0.08	0.08	0.16	0.08	0.08	0.16
Kerala	1.15	0.23	1.38	1.15	0.23	1.38
KSEB	1.14	0.23	1.37	1.14	0.23	1.37
Technopark	0.00	0.00	0.00	0.00	0.00	0.00
Cochin Port Authority	0.00	0.00	0.00	0.00	0.00	0.00
Tamil Nadu	0.83	1.23	2.06	0.83	1.23	2.06
TANGEDCO	0.83	1.23	2.06	0.83	1.23	2.06
Telangana	0.84	5.33	6.17	0.84	5.33	6.17
TGNPDCL	0.04	3.05	3.09	0.04	3.05	3.09
TGSPDCL	0.80	2.28	3.08	0.80	2.28	3.08
Puducherry	-	-	-	-	-	-
-	-	-	-	-	-	-

DISCOM/Utility-wise- Electricity Consumption Details - EV charging stations in India						
Clean Energy & Energy Transition Division, Central Electricity Authority						
	April,2025			April, 2025 to April, 2025		
State-UT/DISCOM	Electricity Consumed in EV Charging Stations (excl. Heavy Duty) (in MU)	Electricity Consumed in Heavy Duty PCS only (in MU)	Total Electricity Consumed (in MU)	Electricity Consumed in EV Charging Stations (excl. Heavy Duty) (in MU)	Electricity Consumed in Heavy Duty PCS only (in MU)	Total Electricity Consumed (in MU)
Bihar	1.03	0.19	1.22	1.03	0.19	1.22
NBPDCL	0.11	0.00	0.11	0.11	0.00	0.11
SBPDCL	0.92	0.19	1.10	0.92	0.19	1.10
Odisha	0.04	0.00	0.04	0.04	0.00	0.04
TPCODL	0.02	0.00	0.02	0.02	0.00	0.02
TPNODL	0.02	0.00	0.02	0.02	0.00	0.02
TPWODL	0.00	0.00	0.00	0.00	0.00	0.00
West Bengal	0.18	0.18	0.36	0.18	0.18	0.36
CESC	0.18	0.18	0.36	0.18	0.18	0.36
DVC	0.00	0.00	0.00	0.00	0.00	0.00
DVC	-	-	-	-	-	-
-	-	-	-	-	-	-
Jharkhand	-	-	-	-	-	-
-	-	-	-	-	-	-
Sikkim	-	-	-	-	-	-
-	-	-	-	-	-	-
Assam	0.73	0.98	1.71	0.73	0.98	1.71
APDCL	0.73	0.98	1.71	0.73	0.98	1.71
Arunachal Pradesh	-	-	-	-	-	-
-	-	-	-	-	-	-
Manipur	-	-	-	-	-	-
-	-	-	-	-	-	-
Meghalaya	-	-	-	-	-	-
-	-	-	-	-	-	-
Mizoram	-	-	-	-	-	-
-	-	-	-	-	-	-
Nagaland	-	-	-	-	-	-
-	-	-	-	-	-	-
Tripura	-	-	-	-	-	-
-	-	-	-	-	-	-
Grand Total	23.45	76.72	100.18	23.45	76.72	100.18
- : Data /Information not available/reported by DISCOM/Utility.						
Note: As per the data furnished by State DISCOMs/ Utilities. The electricity consumption in MU is rounded off to nearest hundredth place.						

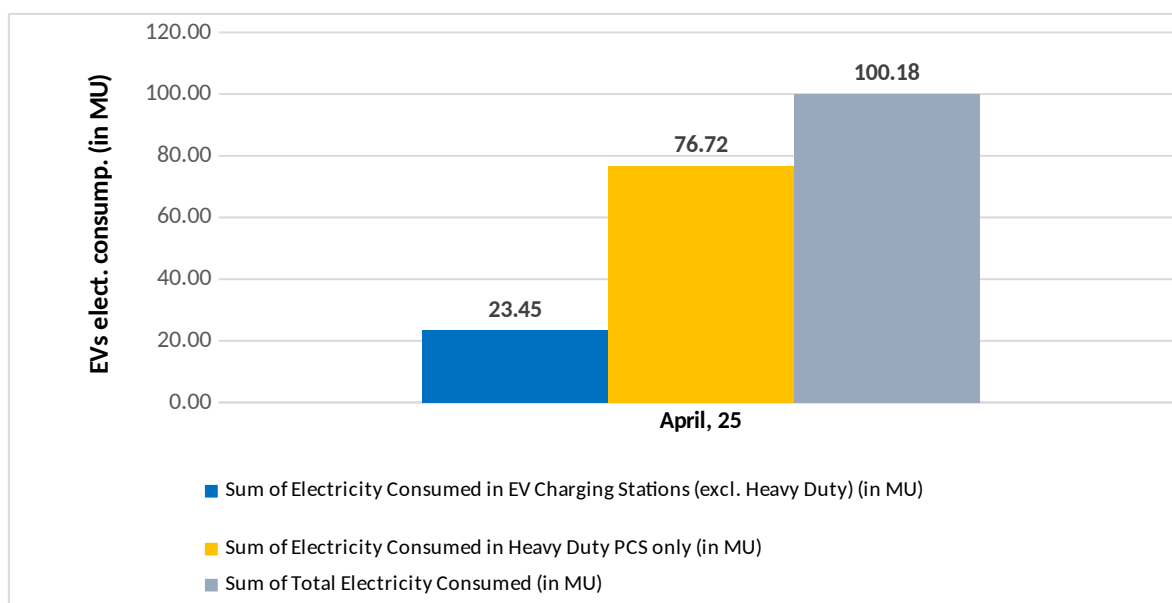
- : Data /Information not available/reported by DISCOM/Utility.

Note: As per the data furnished by State DISCOMs/ Utilities. The electricity consumption in MU is rounded off to nearest hundredth place.

Graphical representation of consumption by EV – Public Charging Stations (PCS)



It can be seen from above graph that in 2025-26 till April month, Delhi has the maximum PCS electric-vehicles electricity consumption (27.64 MU, 27.59%) followed by Maharashtra (25.38 MU, 25.34%), Karnataka (16.51 MU, 16.48%), Gujarat (6.94 MU, 6.93%).



The above graph shows the electricity consumption by PCS EV charging stations along with Heavy-duty charging stations for April 2025. Total electricity consumption in April, 2025 was 100.18 MU whereas in March 2025, it was 85 MU.

EV Power consumption Data from non-PCS

With increase in the number of Electric Vehicles in India, the increase in the power consumption from non-PCS is also becoming substantial. Therefore, Discoms were requested to provide segregated data for PCS and non-PCS stations. Few Discoms mentioned below have given segregated data for PCS and non-PCS stations, thus giving us a better overview of total EV power consumption in the country. Rest of the Discoms are also encouraged to submit segregated data for PCS and non-PCS stations.

April, 2025			
State-UT/DISCOM	Electricity Consumed in EV Charging Stations (other than PCS) (in MU)	Total Electricity Consumed in PCS (in MU)	Total Electricity Consumed (including PCS & Non-PCS) (in MU)
Delhi			
BRPL	2.87	7.87	10.74
BYPL	3.04	7.23	10.27
Gujarat			
TPL-Surat	0.2	0.18	0.38
Total (India)	5.91	100.18	106.29

Important Note: Some of the Discoms have either not submitted their non-PCS EV Power consumption data or it may be included in their submitted PCS consumption data due to no separate segregation available with them.