

India's Energy Overview

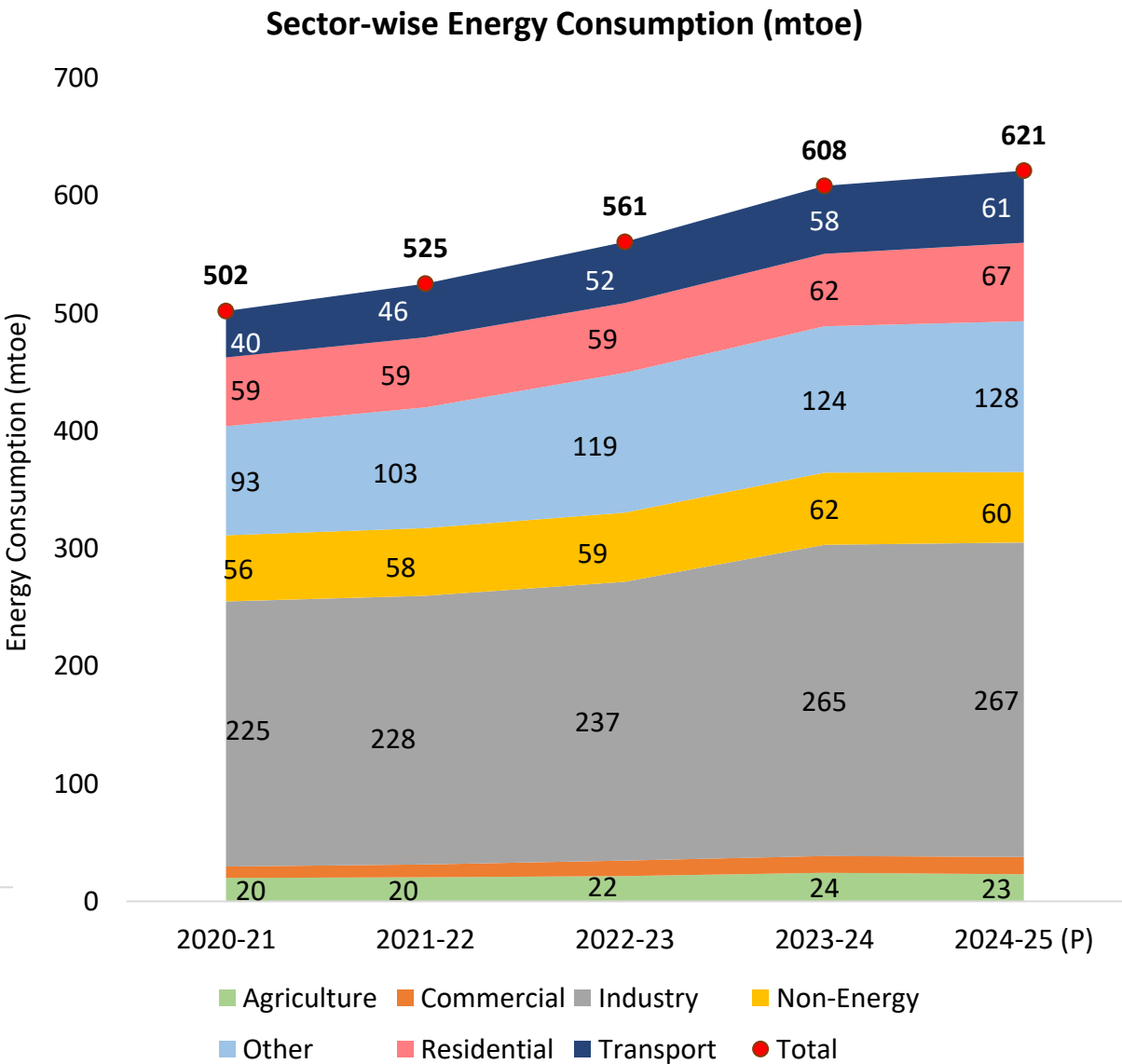
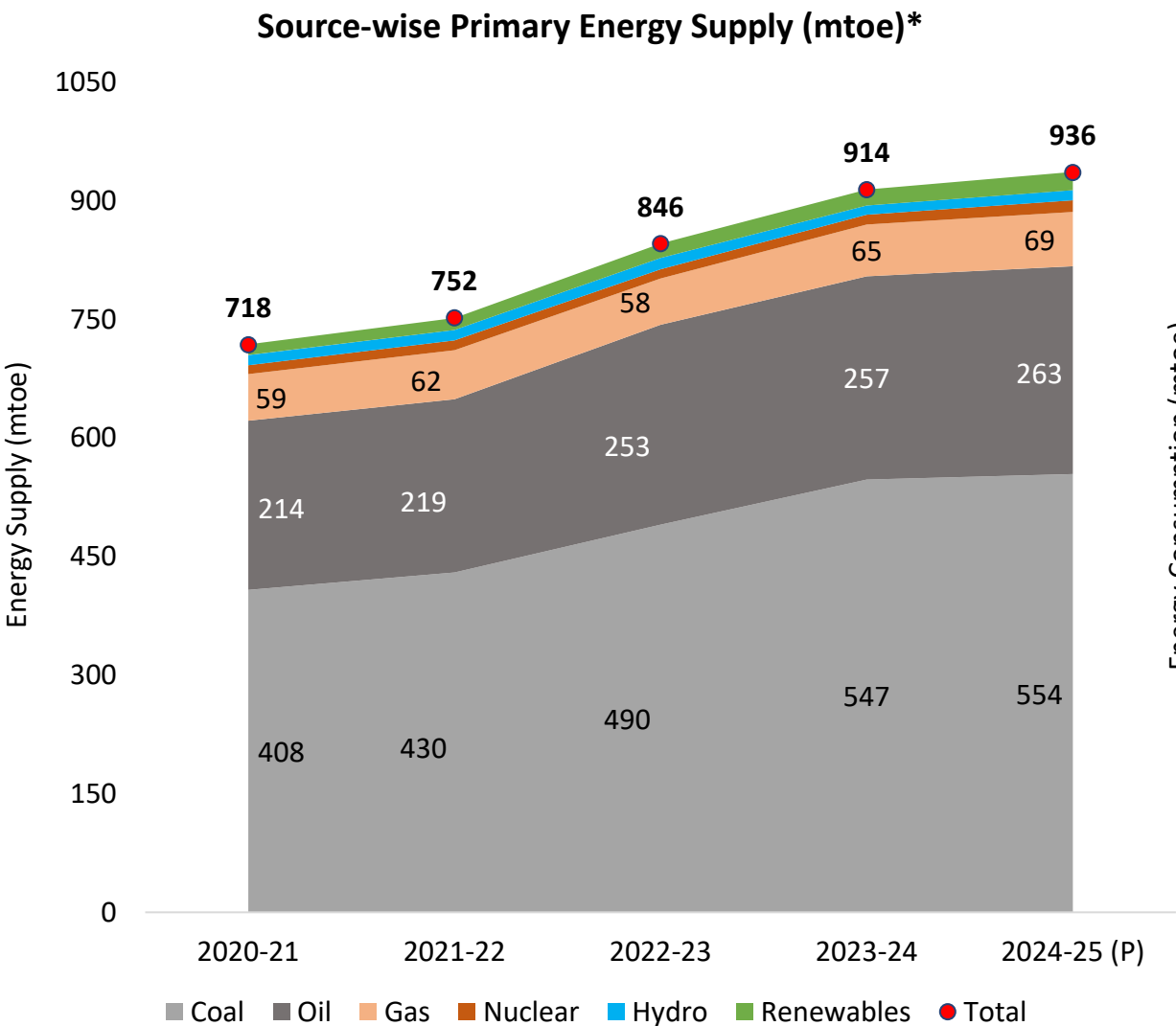
August 2026



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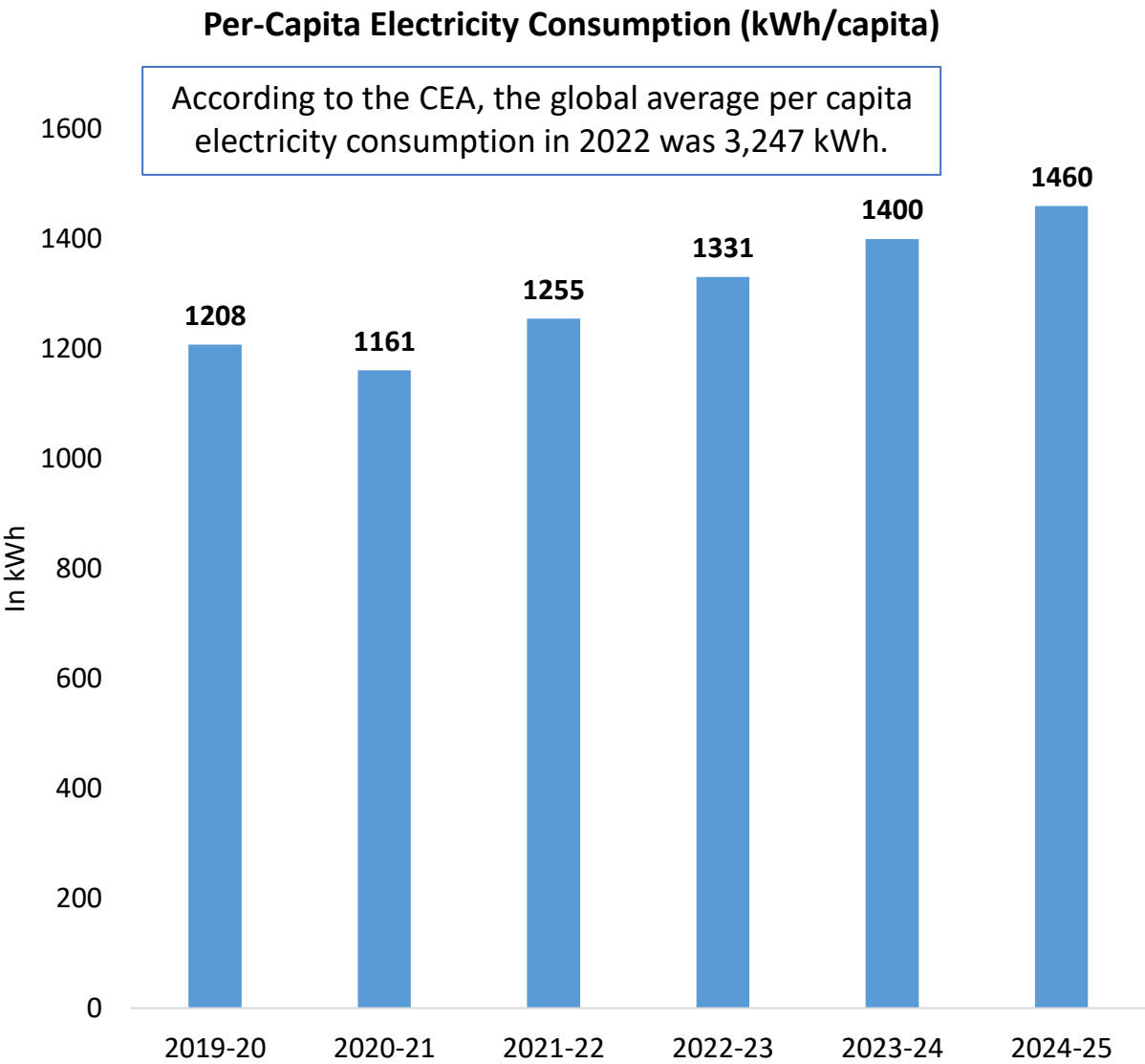
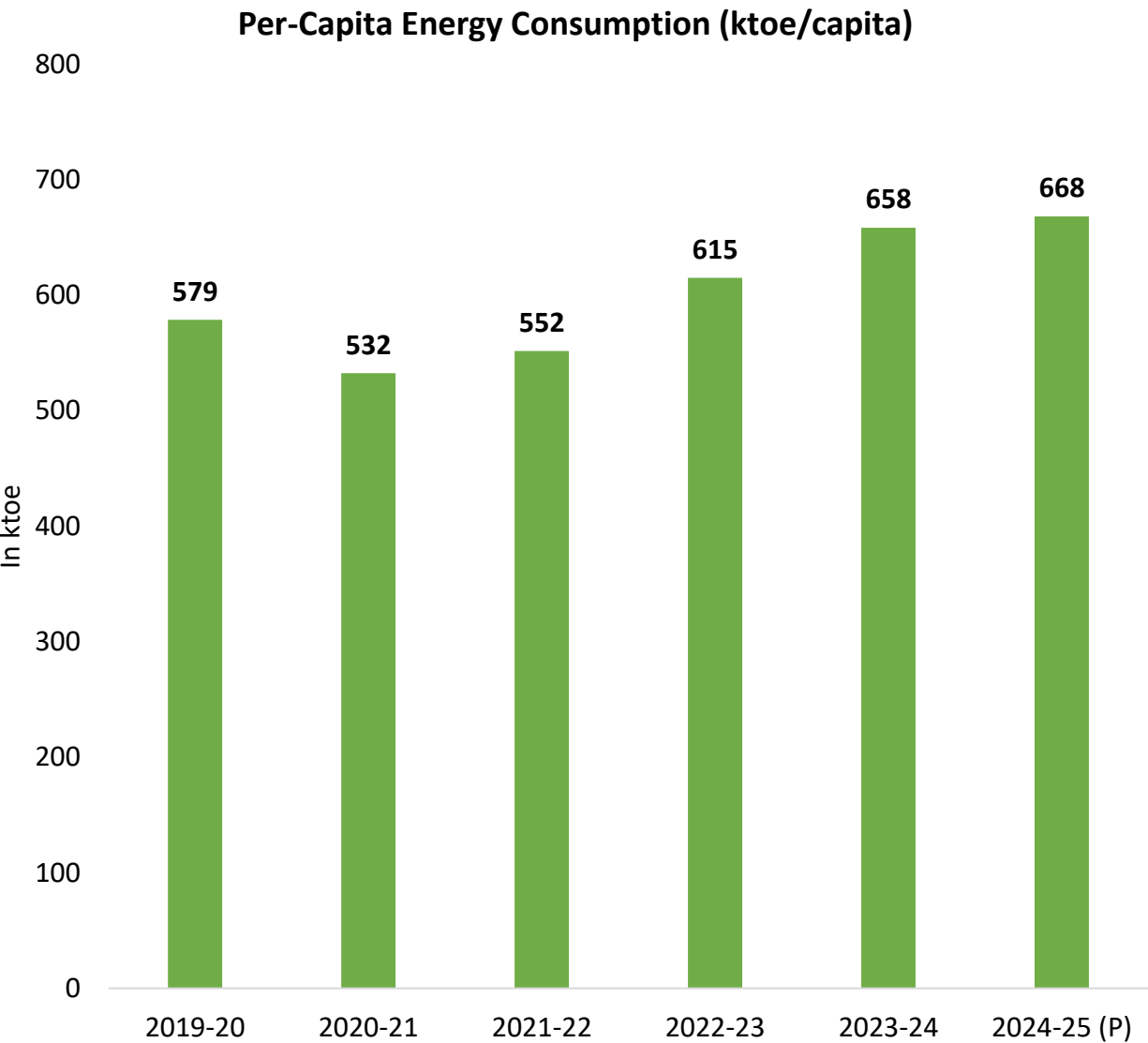
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Primary* and Final Energy Mix in India



*Excluding biofuels, waste, and other non-commercial source of energy

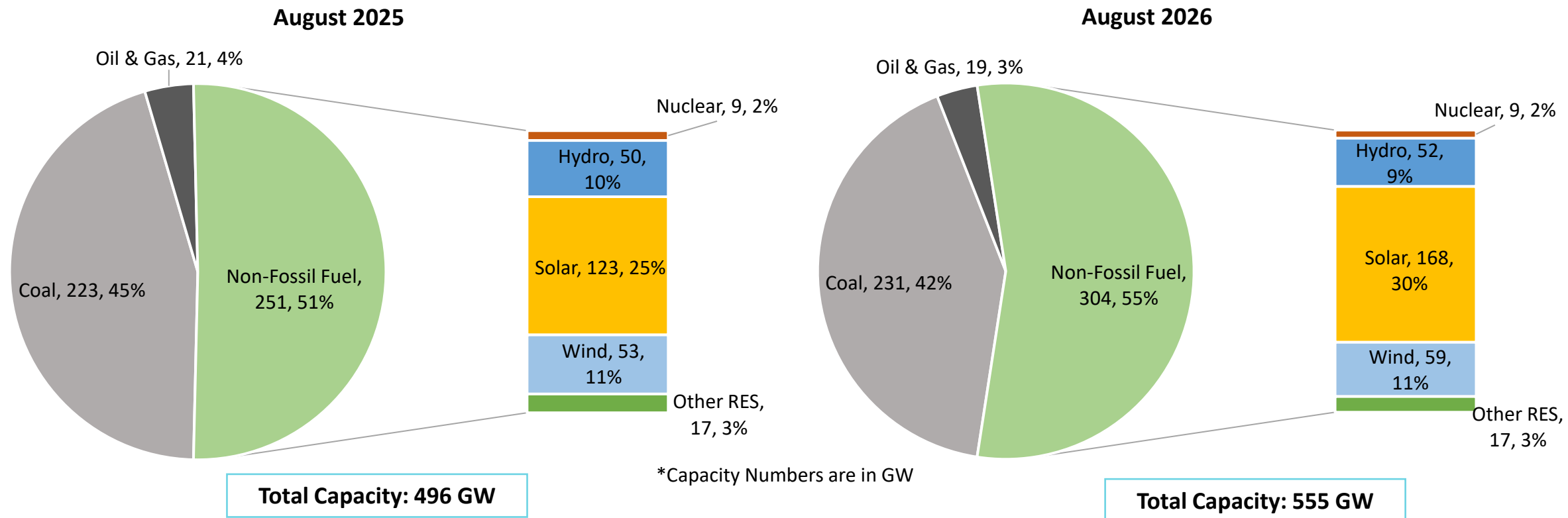
Per-Capita Energy and Electricity Consumption



Note: Per Capita energy consumption is calculated on energy supply basis.

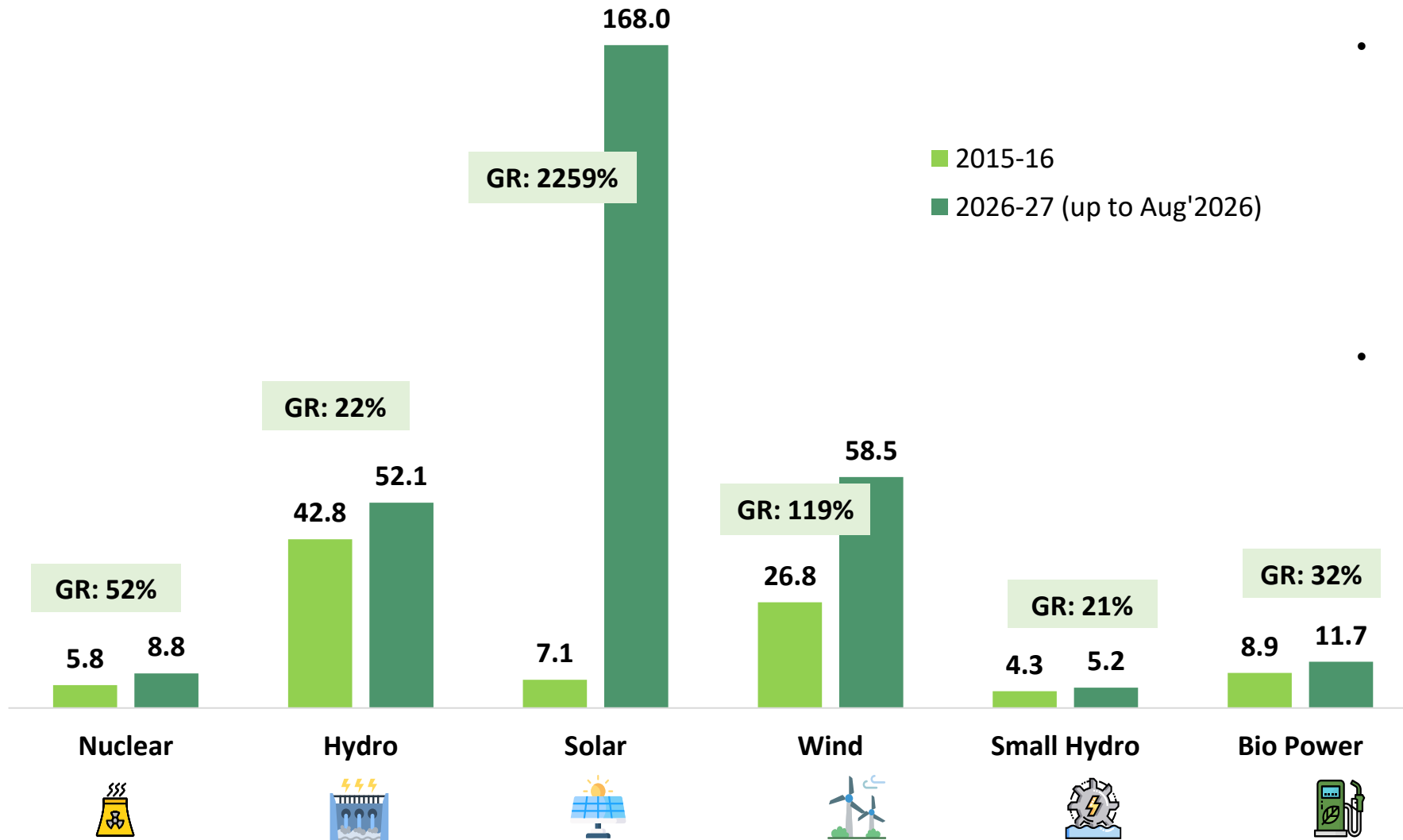
Source: ICED & CEA

India's Electricity Capacity Mix (Utility-scale)



- India's electricity generating capacity is 555 GW as on August 2026 [coal 231 GW (42%), solar 168 GW (30%), wind 59 GW (11%), and large hydro 52 (9%)].
- As on August 2026, the share of non-fossil-based electricity capacity is 55% against the updated target of 60% non-fossil capacity by 2035.
- As on August 2026, India's renewable energy capacity (including large hydro) stood at 296 GW out of 555 GW.

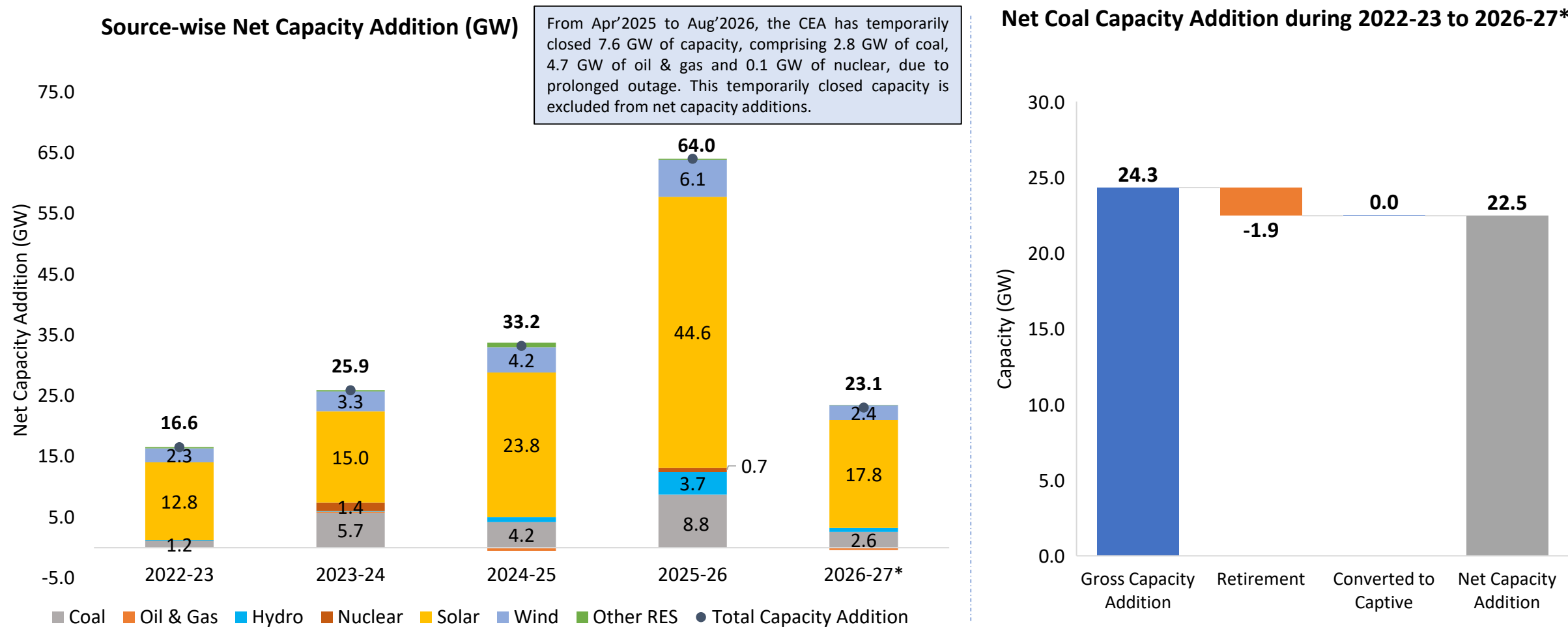
Non-Fossil Energy Capacity (in GW) Growth Post-2015 Paris Agreement



- As of 31 August 2026, **55% (304 GW)** of India's total power capacity (**555 GW**) is now non-fossil fuel-based, meeting the Paris Agreement pledge.

- Post-2015 Paris Agreement Growth:**
 - solar capacity increased **37-folds**
 - wind power **doubled**
 - nuclear increased by **4% CAGR**.

India's Electricity Capacity Addition in last 5 years



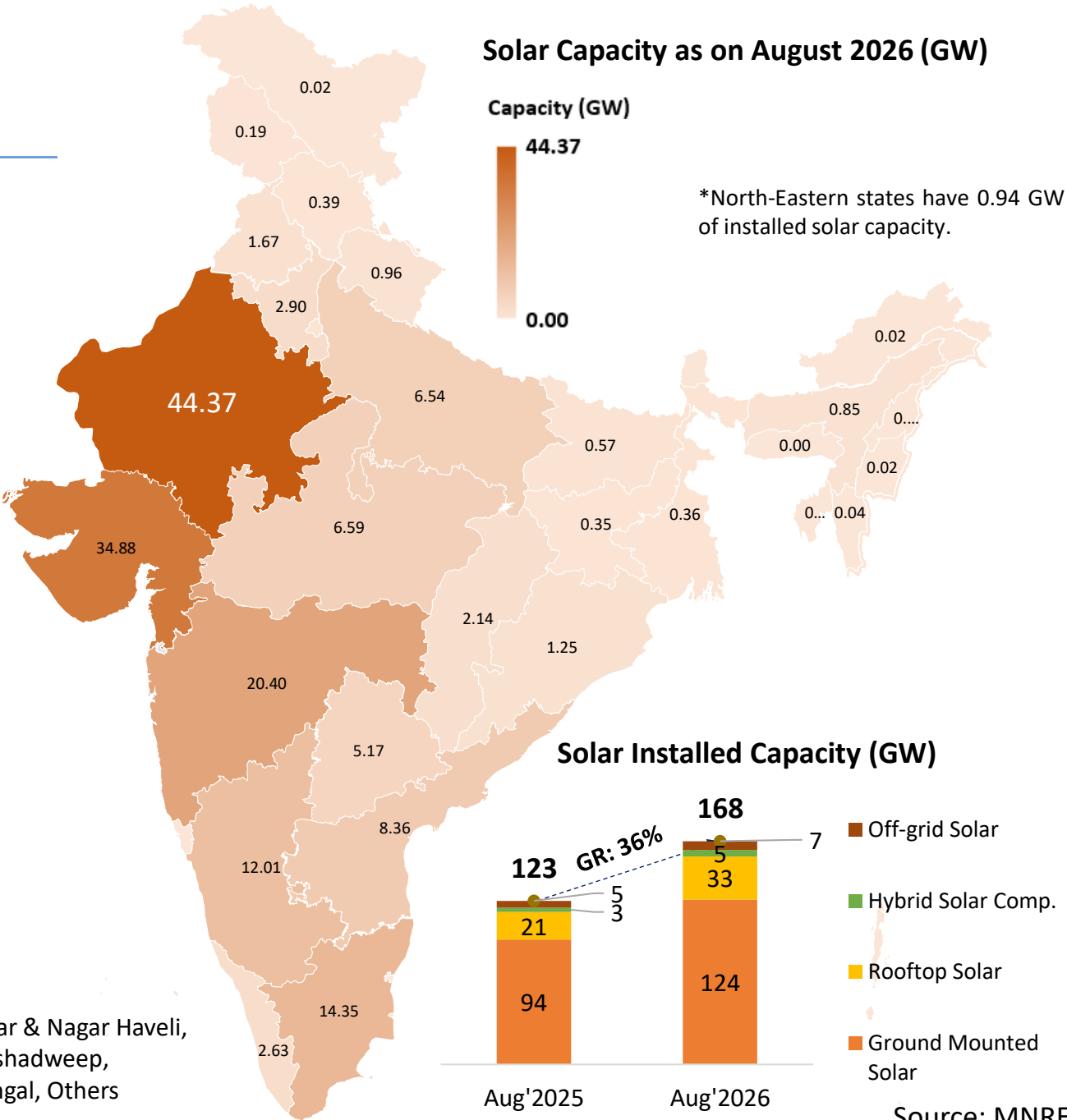
- A total of 139 GW of generation capacity has been added in RE (Hydro, solar, wind, and other RES) over the past 5 years (2022-23 to 2026-27*), whereas the net coal capacity addition during the same period was 23 GW, mostly in the central sector.

State-wise Solar Capacity

as on August 2026

State-wise Installed Capacity of Solar Power (GW)					
States	Ground Mounted	Rooftop	Solar Component in Hybrid	Off Grid	Total Solar Power
Rajasthan	38.90	2.32	2.28	0.87	44.37
Gujarat	24.95	8.15	1.59	0.20	34.88
Maharashtra	12.17	5.98	0.00	2.25	20.40
Tamil Nadu	12.64	1.64	0.00	0.08	14.35
Karnataka	10.49	0.94	0.36	0.23	12.01
Andhra Pradesh	6.57	1.11	0.60	0.09	8.36
Madhya Pradesh	5.34	1.06	0.00	0.20	6.59
Uttar Pradesh	3.18	2.98	0.00	0.38	6.54
Telangana	4.36	0.80	0.00	0.01	5.17
Haryana	0.27	1.42	0.00	1.21	2.90
Kerala	0.34	2.26	0.00	0.03	2.63
Chhattisgarh	1.42	0.33	0.00	0.39	2.14
Punjab	0.89	0.66	0.00	0.12	1.67
Odisha	0.73	0.44	0.00	0.08	1.25
Others	1.76	2.54	0.00	0.49	4.78
All India	123.99	32.60	4.83	6.63	168.04

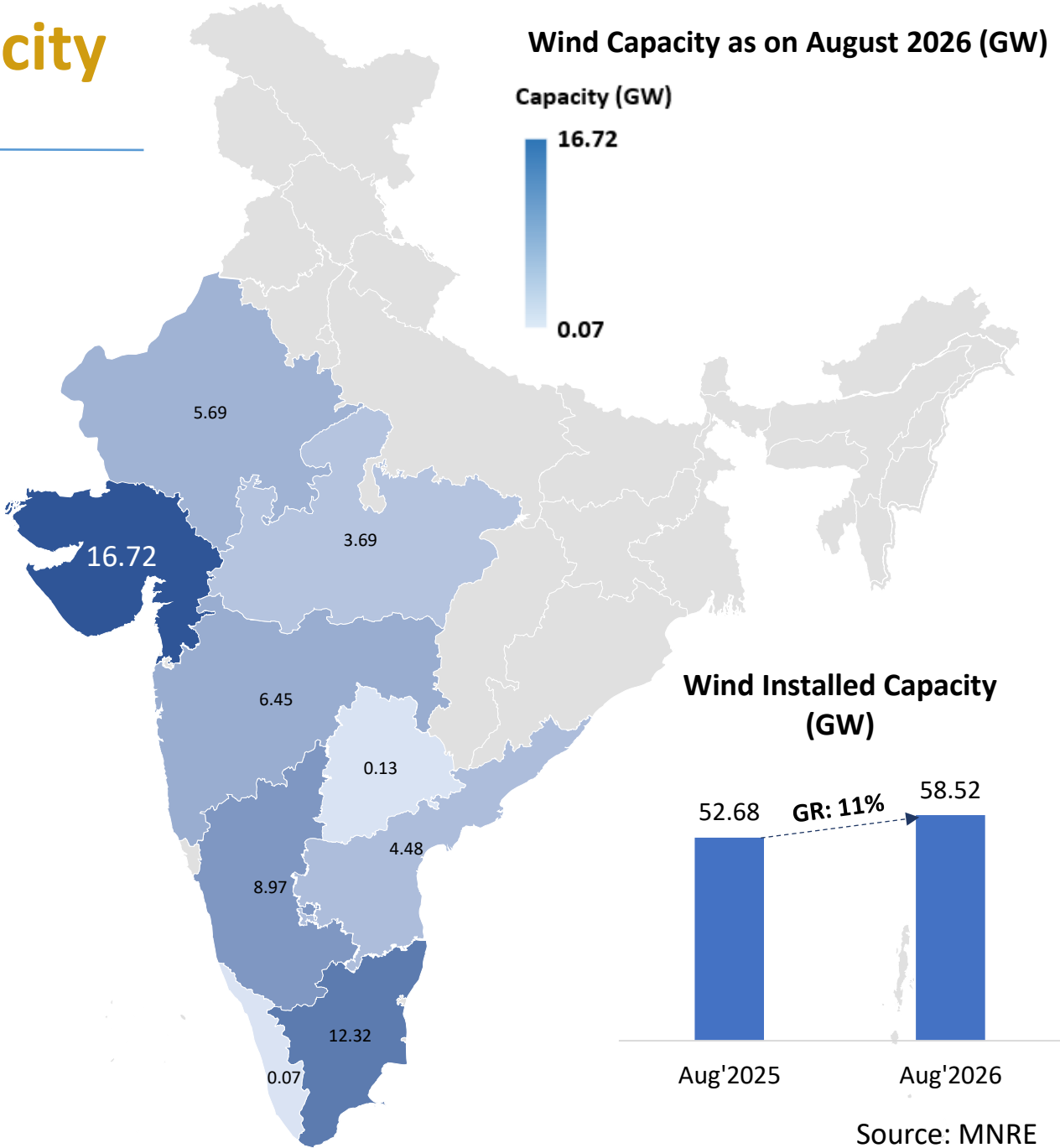
Others include- Andaman & Nicobar, Arunachal Pradesh, Assam, Bihar, Chandigarh, Dadar & Nagar Haveli, Daman & Diu, Delhi, Goa, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Ladakh, Lakshadweep, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Puducherry, Sikkim, Tripura, West Bengal, Others



State-wise Wind Onshore Capacity

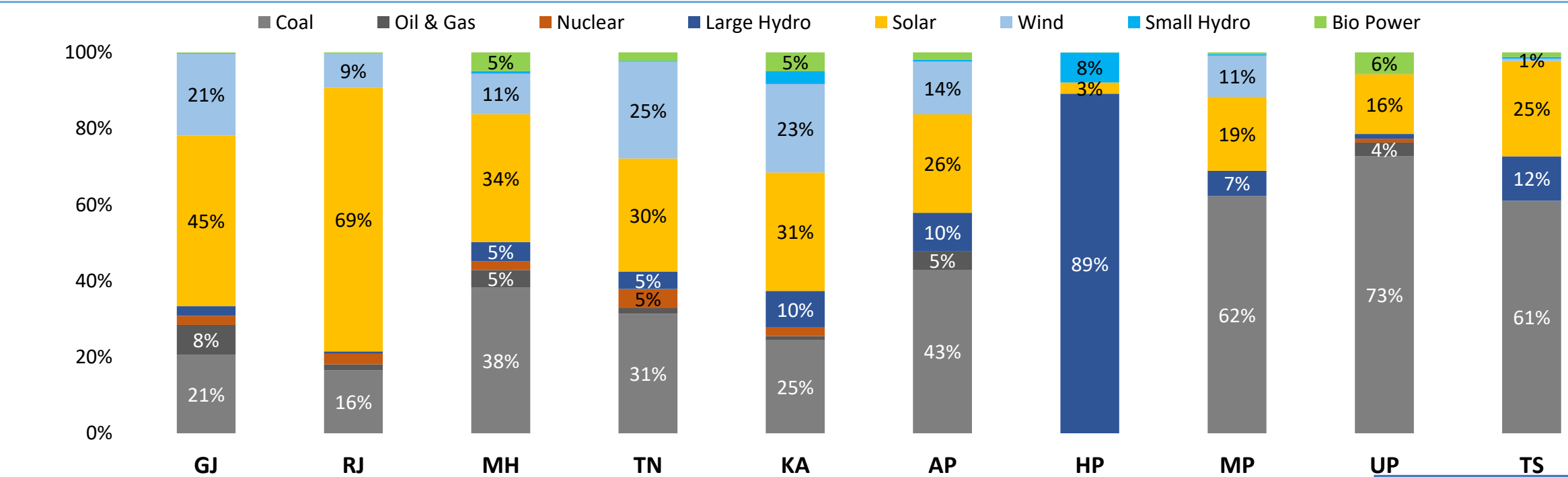
as on August 2026

State-wise installed capacity of Wind (Onshore) Power	
States	Installed Capacity (GW)
Gujarat	16.72
Tamil Nadu	12.32
Karnataka	8.97
Maharashtra	6.45
Rajasthan	5.69
Andhra Pradesh	4.48
Madhya Pradesh	3.69
Telangana	0.13
Kerala	0.07
India Total	58.52



Top 10 High RE* States and Their Capacity Mix

as on August 2026



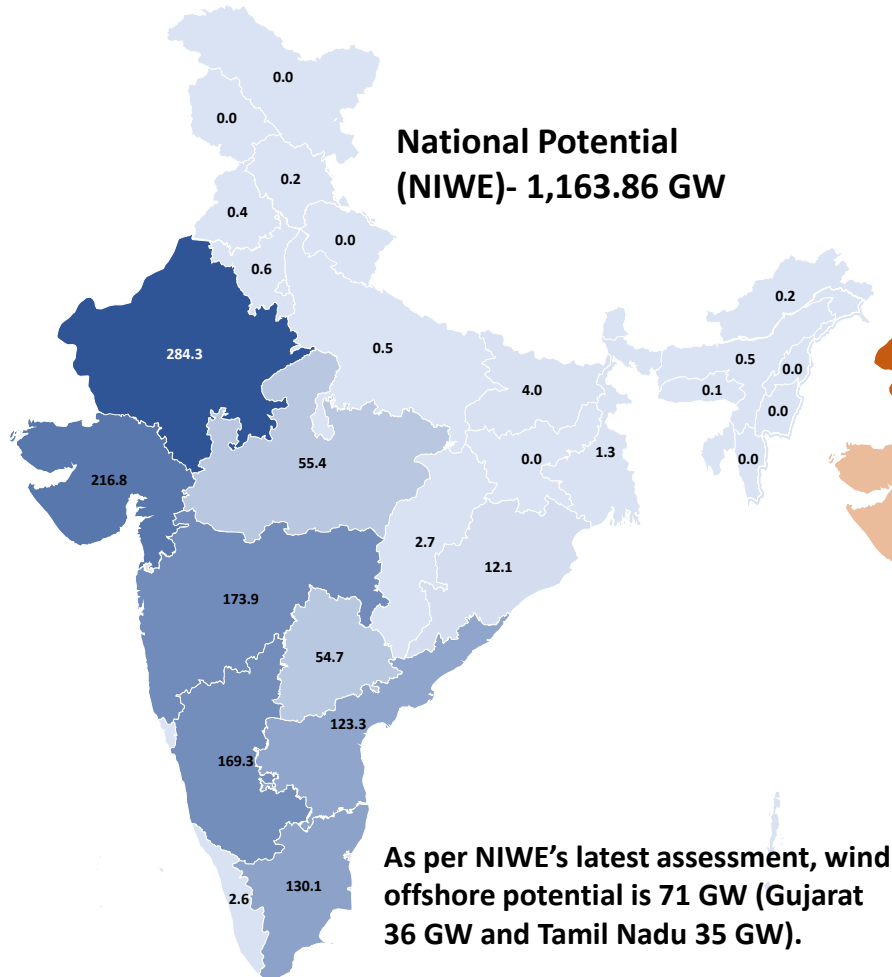
Numbers are in GW

Parameters	GJ	RJ	MH	TN	KA	AP	HP	MP	UP	TS
Total Installed Capacity	77.83	64.09	60.69	48.40	38.60	32.35	12.98	33.97	41.61	20.61
Total RE Capacity	53.83	50.72	33.28	30.05	27.87	16.92	12.98	12.80	9.42	8.03
RE Share	69%	79%	55%	62%	72%	52%	100%	38%	23%	39%

Renewable Energy (RE) Potential

Wind Onshore (at 150m agl) and Offshore Potential

Wind Potential (GW)
0.00 284.25

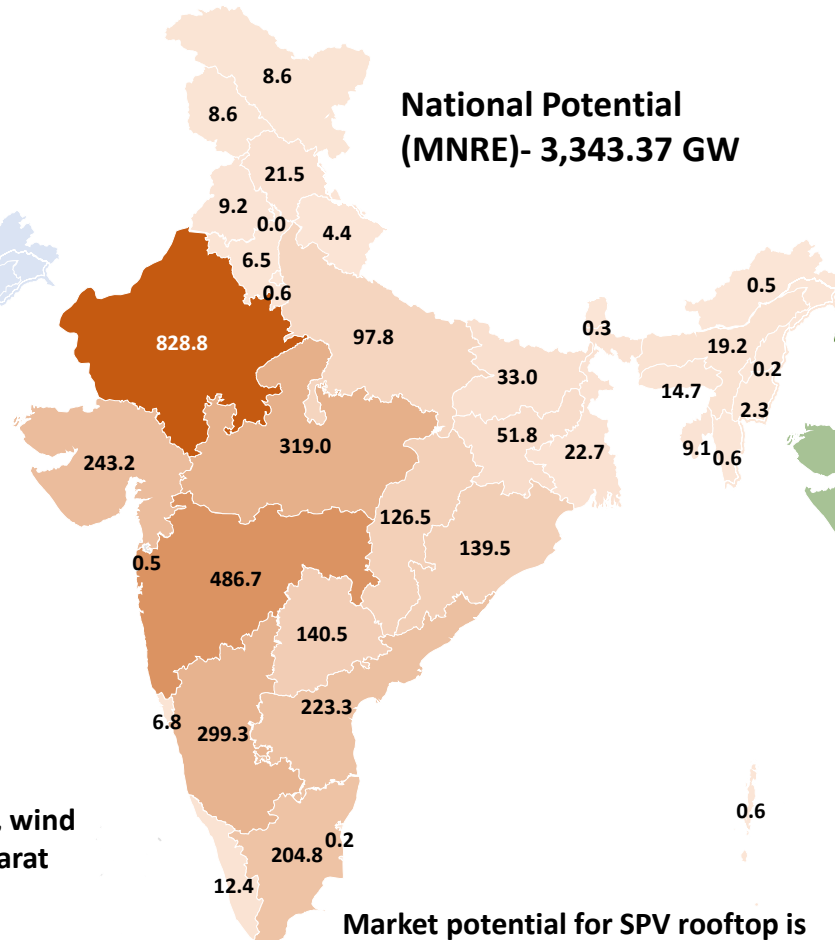


National Potential (NIWE)- 1,163.86 GW

As per NIWE's latest assessment, wind offshore potential is 71 GW (Gujarat 36 GW and Tamil Nadu 35 GW).

Solar Ground Mounted Potential (at 6.69% wasteland)

Solar Potential (GW)
0.0 828.8

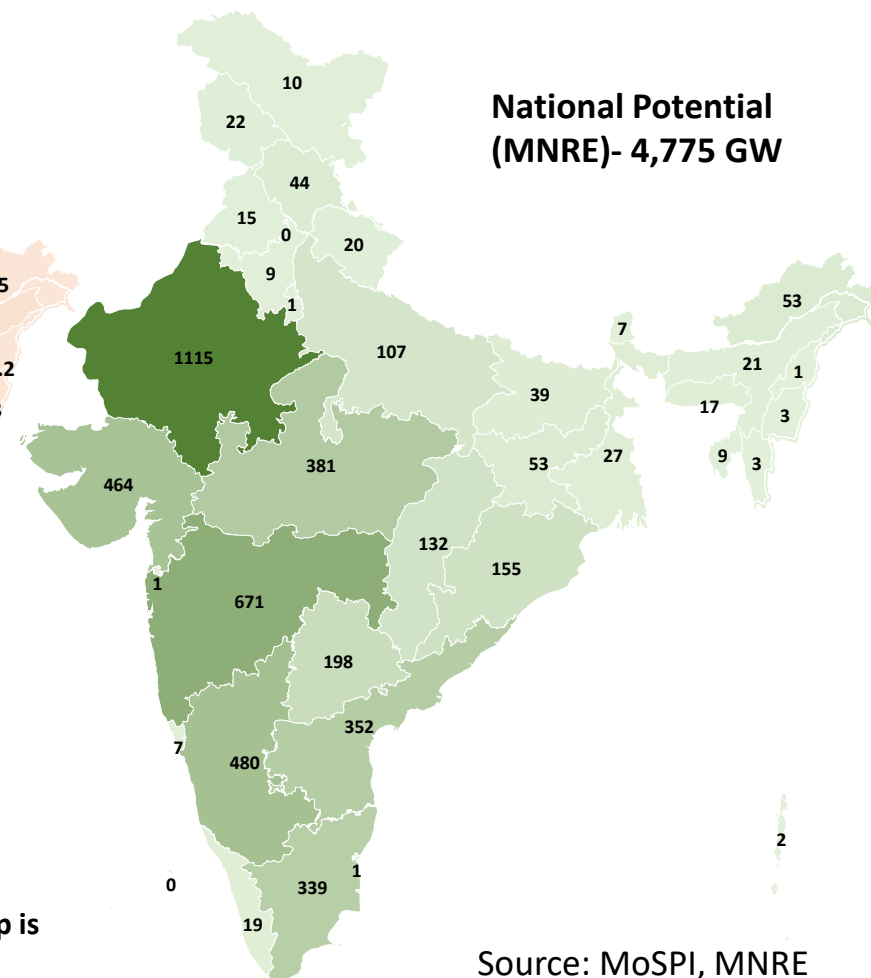


National Potential (MNRE)- 3,343.37 GW

Market potential for SPV rooftop is 124 GW.

Renewable Energy Potential (all sources incl. large Hydro)

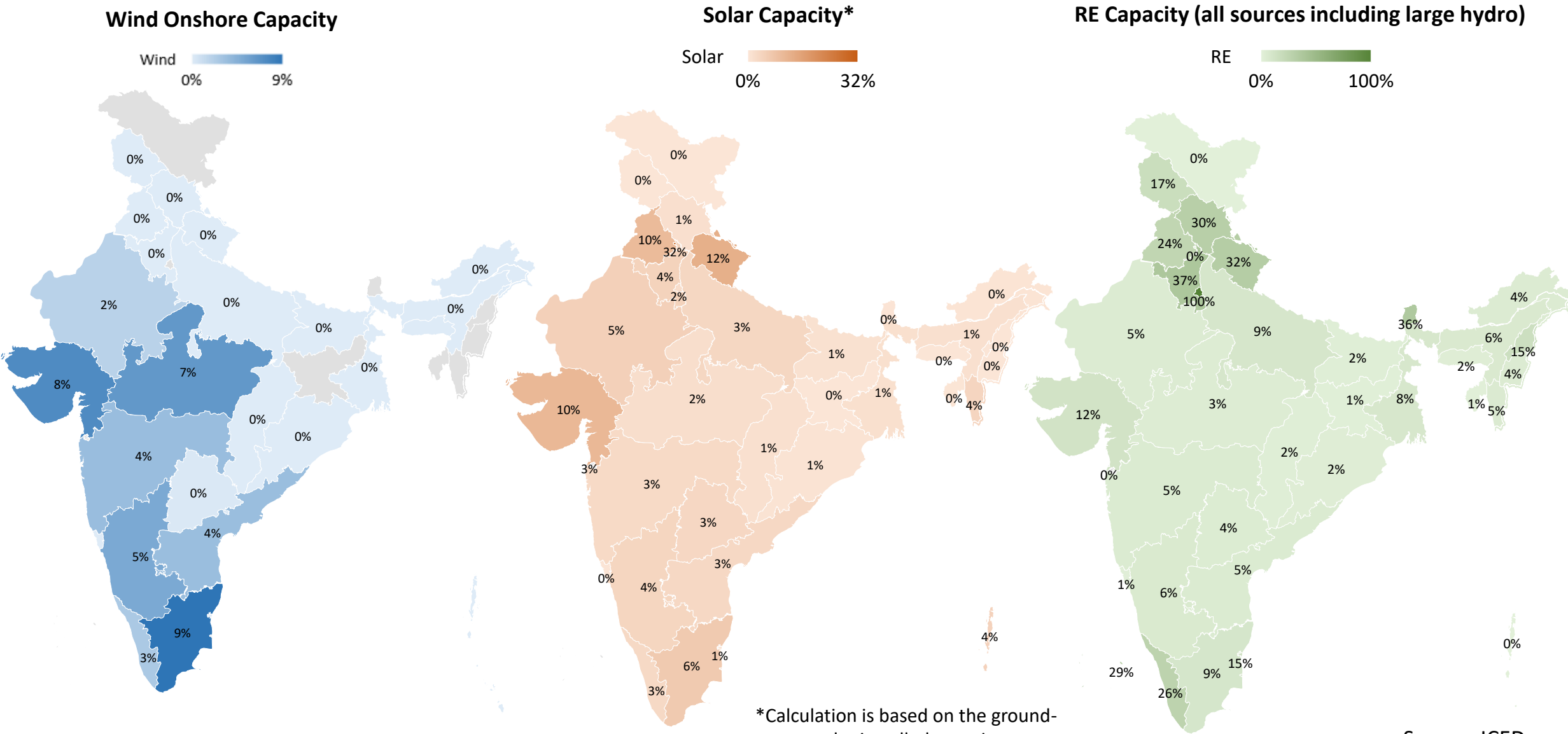
Potential (GW)
0 1115



National Potential (MNRE)- 4,775 GW

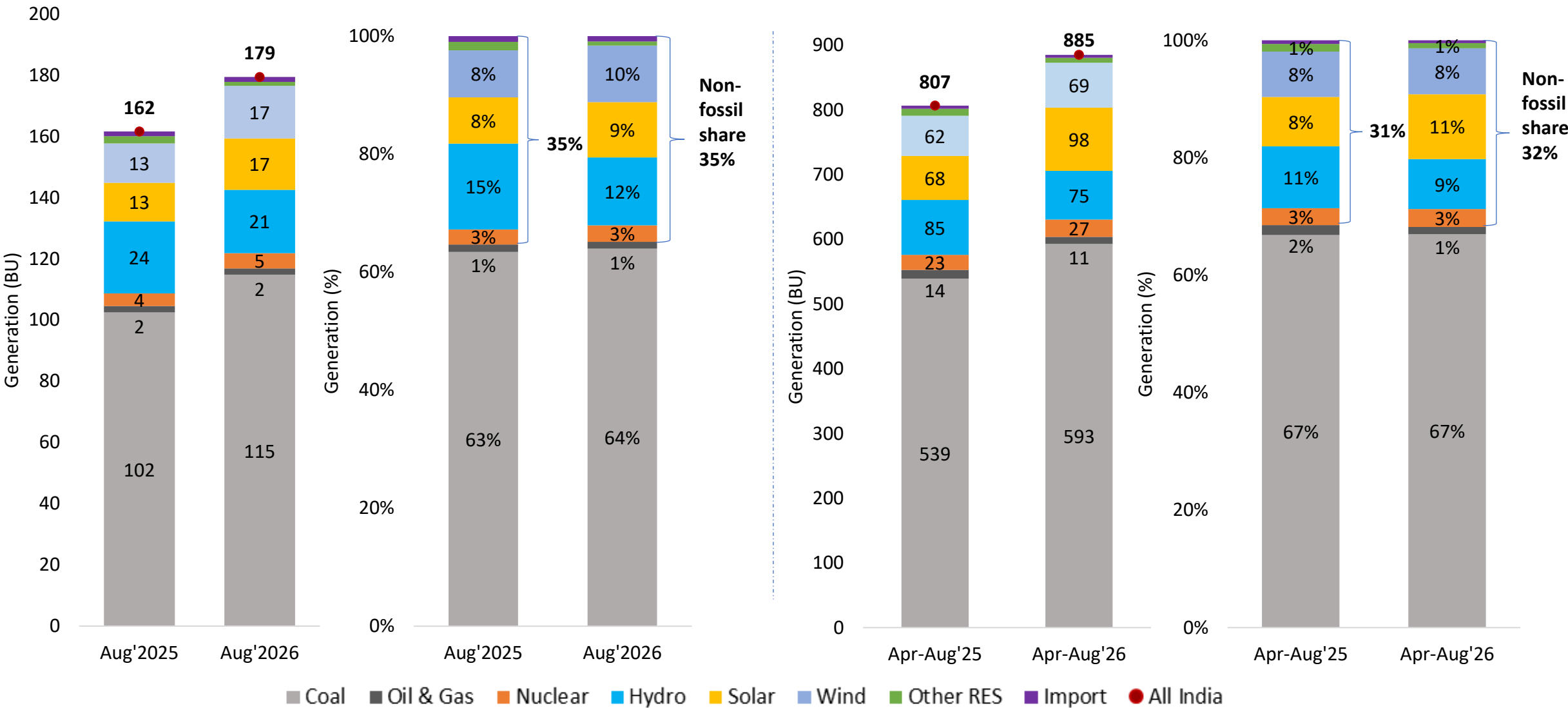
Source: MoSPI, MNRE

RE Installed Capacity as a Percentage of the Total Resource Potential in the State (as on August 2026)

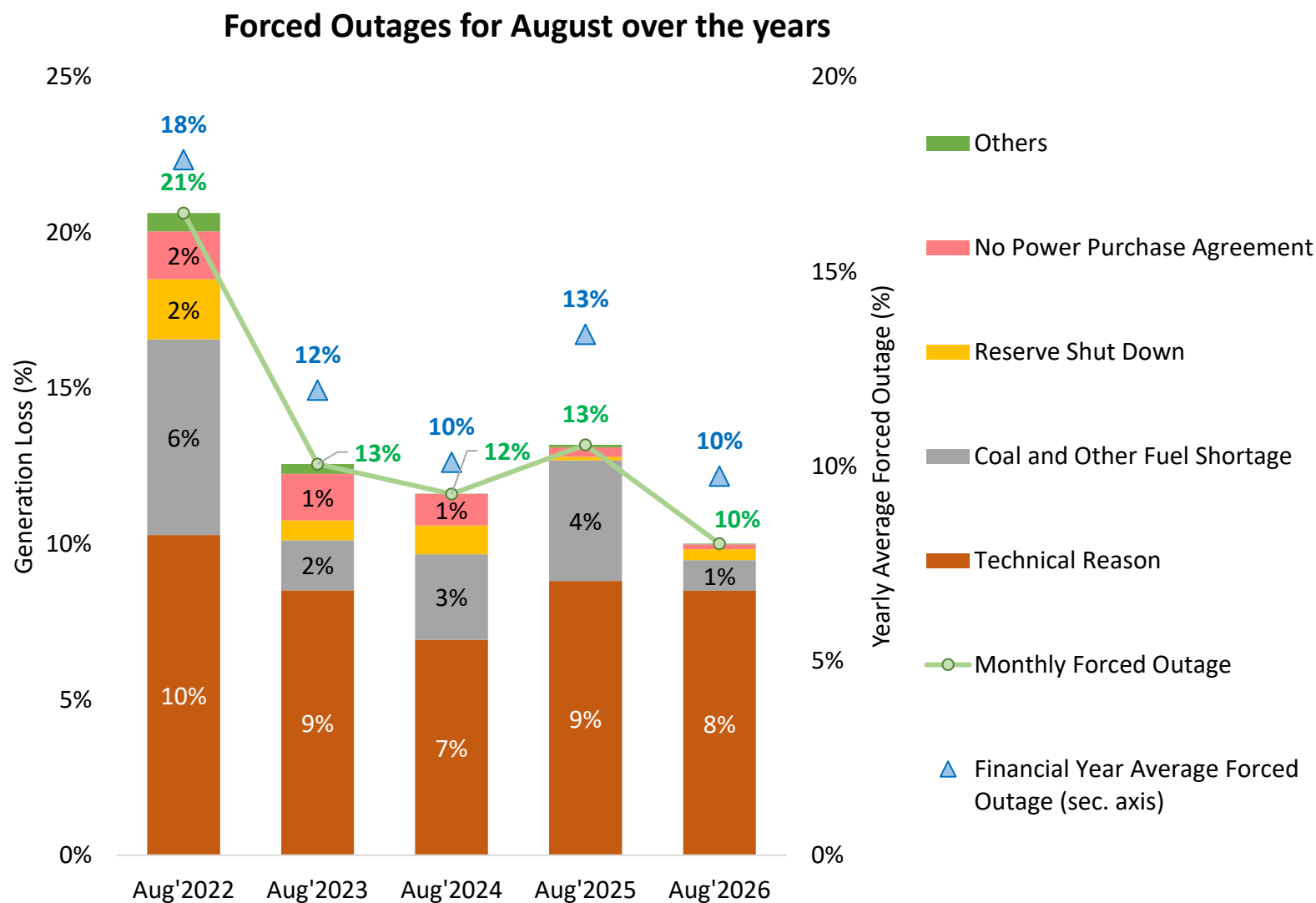


India's Electricity Generation Mix

Source-wise Generation Mix



Thermal Generation Loss and Reasons for Forced Outages



Year/ Month		Average Forced Outage Share
Yearly	FY 2024-25	10%
	FY 2025-26	13%
	FY 2026-27 (up to Aug'2026)	10%
Monthly	Aug'2024	12%
	Aug'2025	13%
	Aug'2026	10%

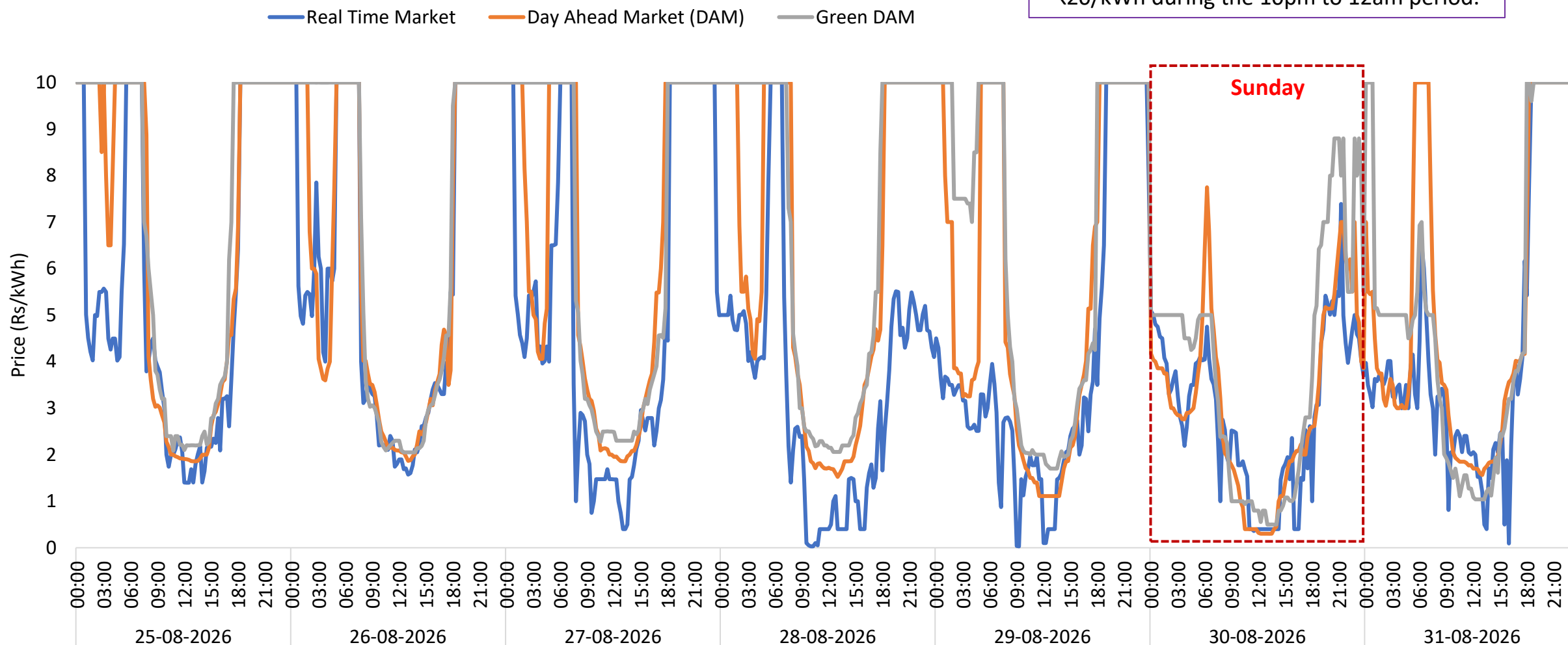
NOTE: Thermal includes only Coal and Lignite Plants.
Others includes Other Commercial Reasons, Raw Water Unavailability and Technical Grid.

Source: ICED

Indian Electricity Exchange (IEX) Market Snapshot

Market Clearing Prices of last 7 days of August 2026

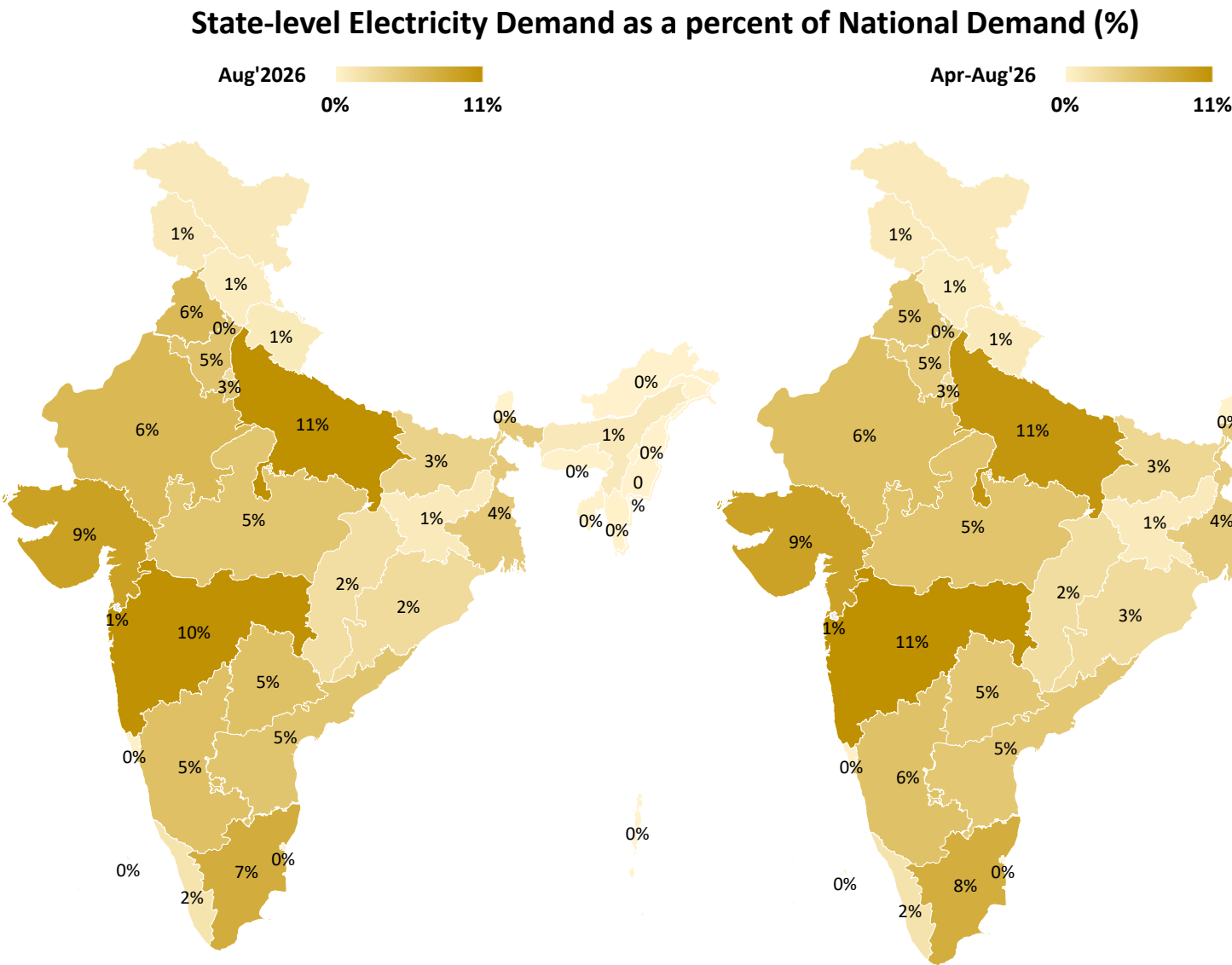
In Aug'2026, High Price DAM prices reached ₹20/kWh during the 10pm to 12am period.



In April 2023, CERC revised the price ceiling from ₹12/kWh to ₹10/kWh in the power exchange market.

Source: IEX

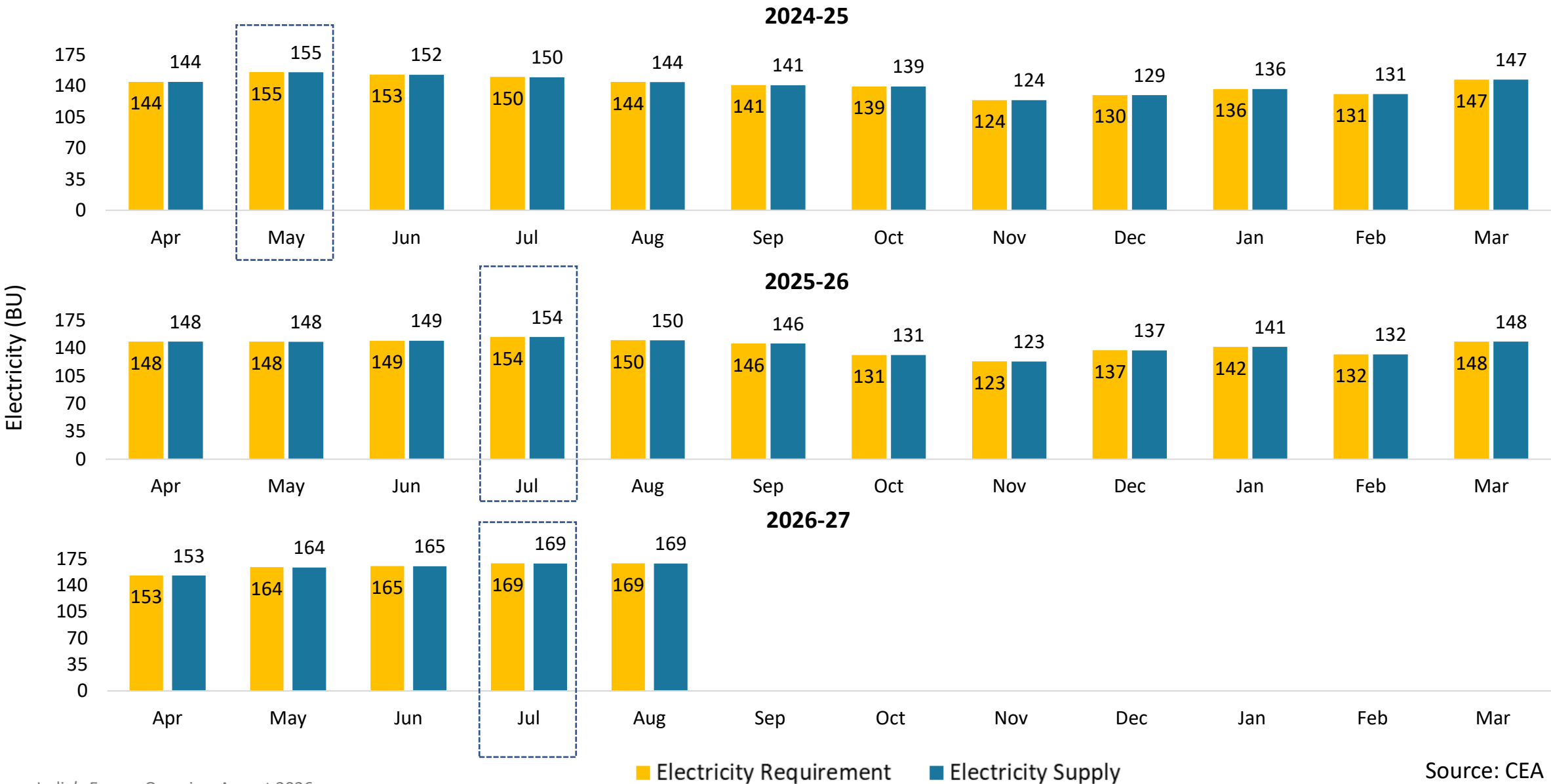
National and State level Electricity Demand



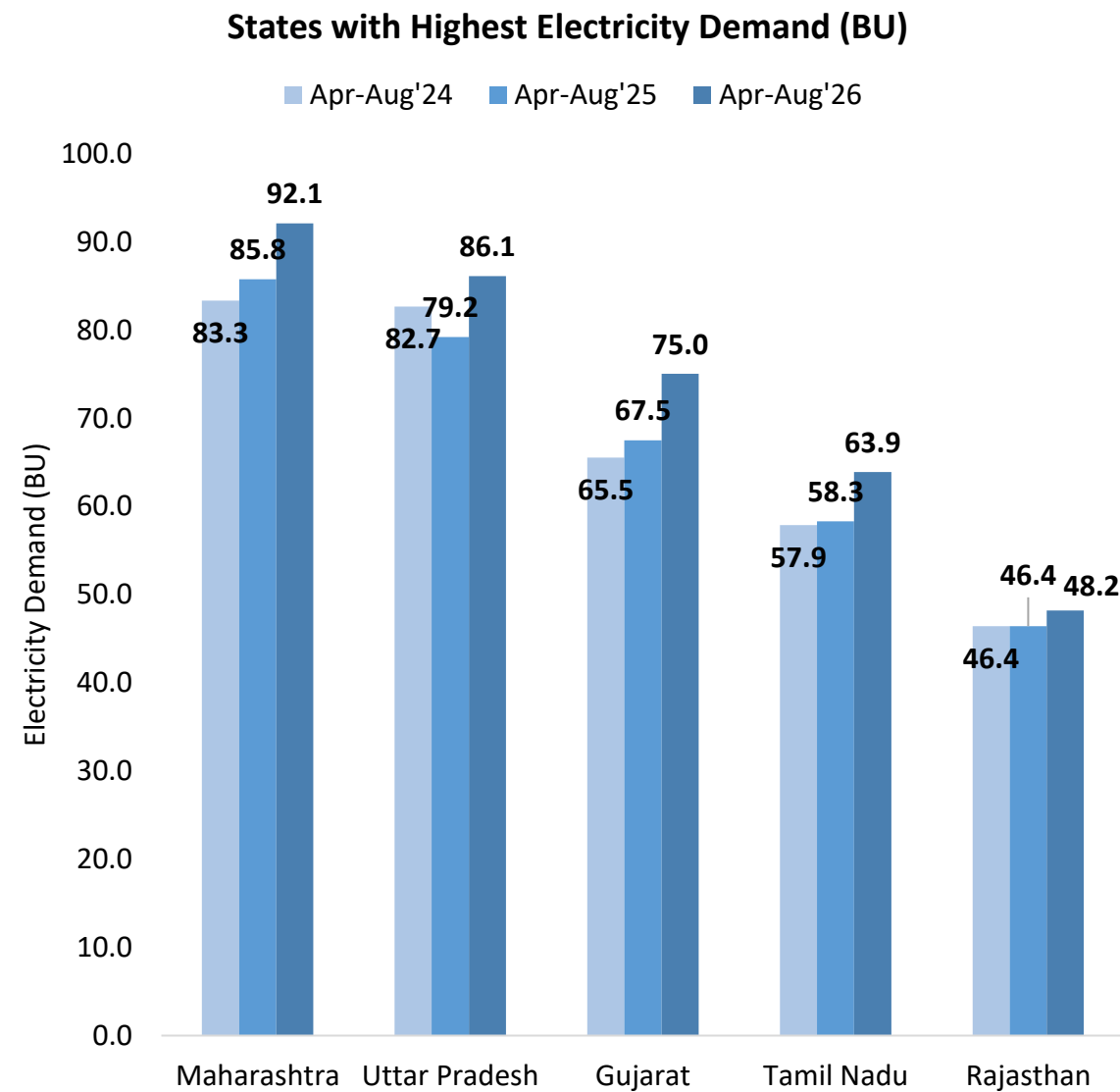
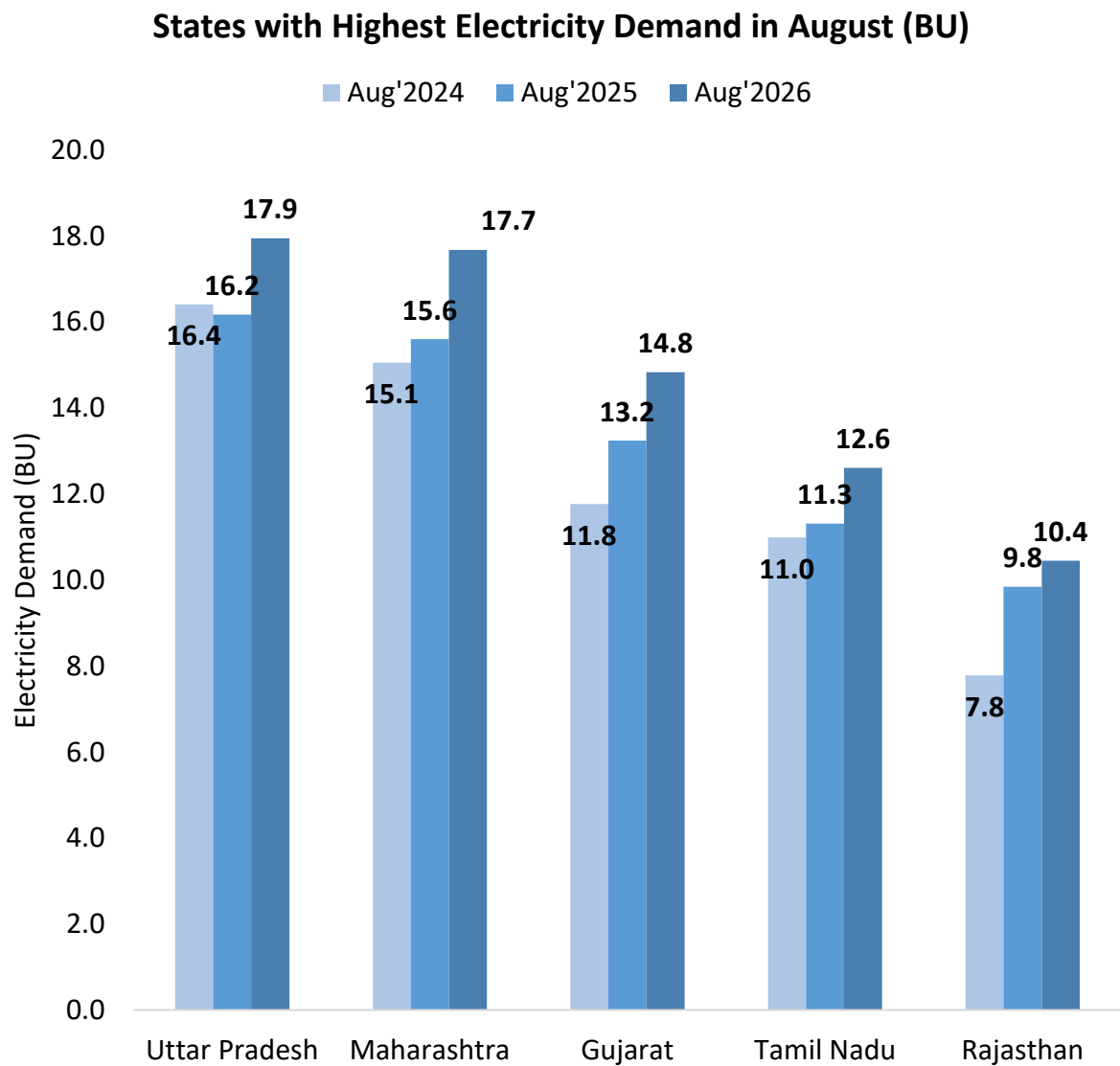
Month	Electricity Demand (BU)	Electricity Supply (BU)	Gap (BU) (+/-)
Aug'2024	144	144	0.2
Aug'2025	150	150	0.0
Aug'2026	169	169	0.1

Apr-Aug	Electricity Demand (BU)	Electricity Supply (BU)	Gap (BU) (+/-)
FY 2023-24	747	746	1.1
FY 2024-25	749	749	0.2
FY 2025-26	820	819	1.0

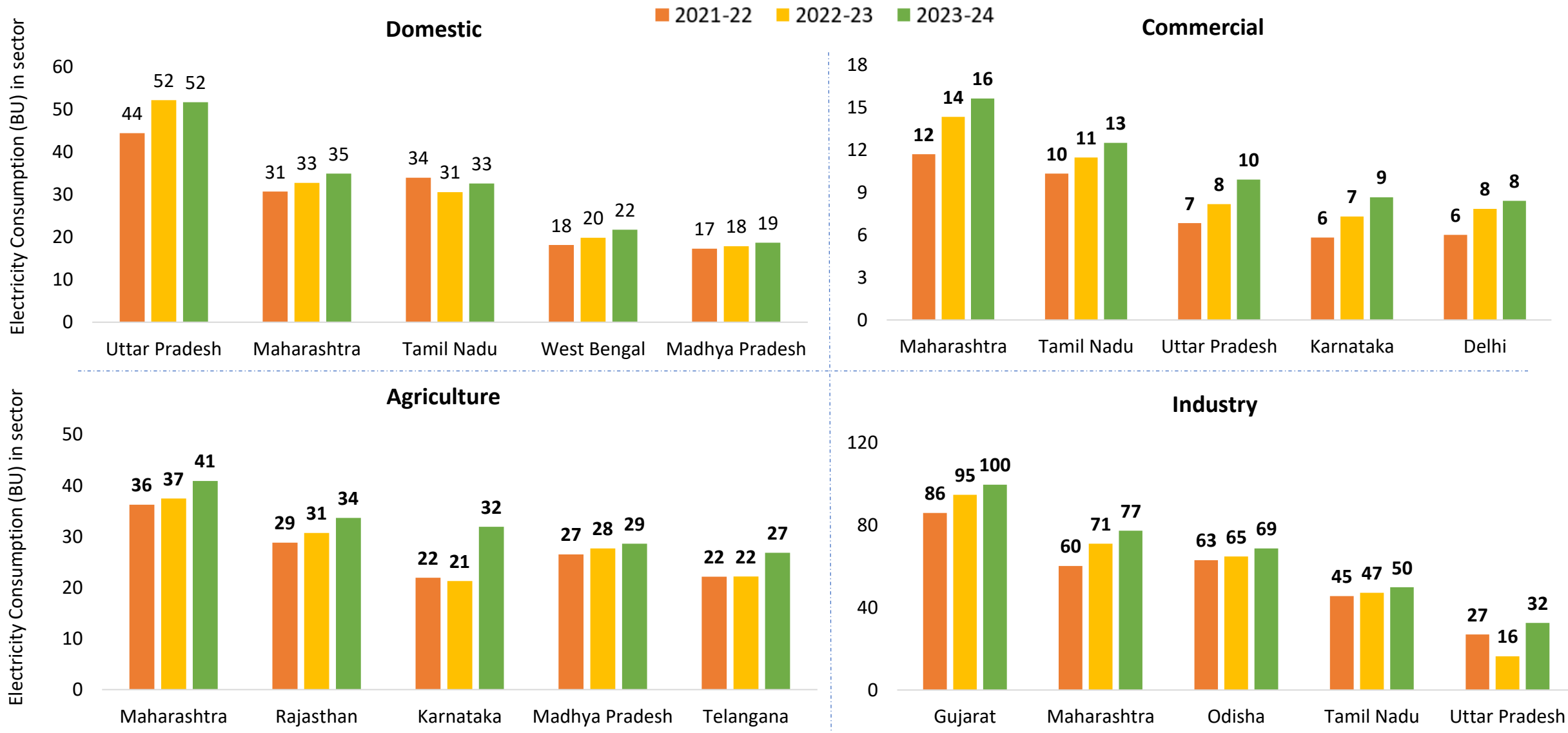
India's Monthly Electricity Requirement and Supply



Monthly Electricity Demand of the Top 5 States



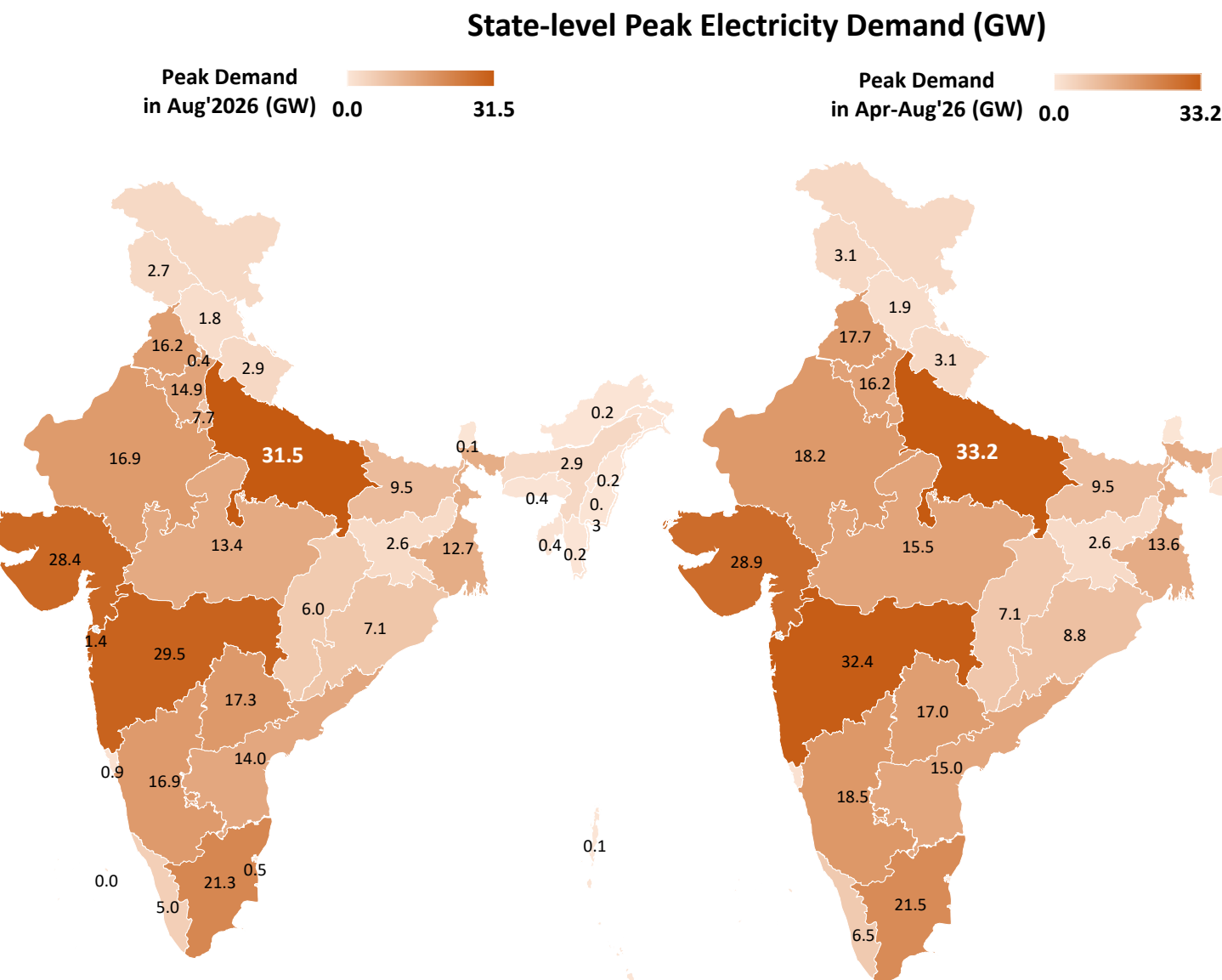
Electricity Consumer-category wise Top 5 States



NOTE: Top 5 States under consumer-categories are selected on the basis of 2023-24

Source: CEA

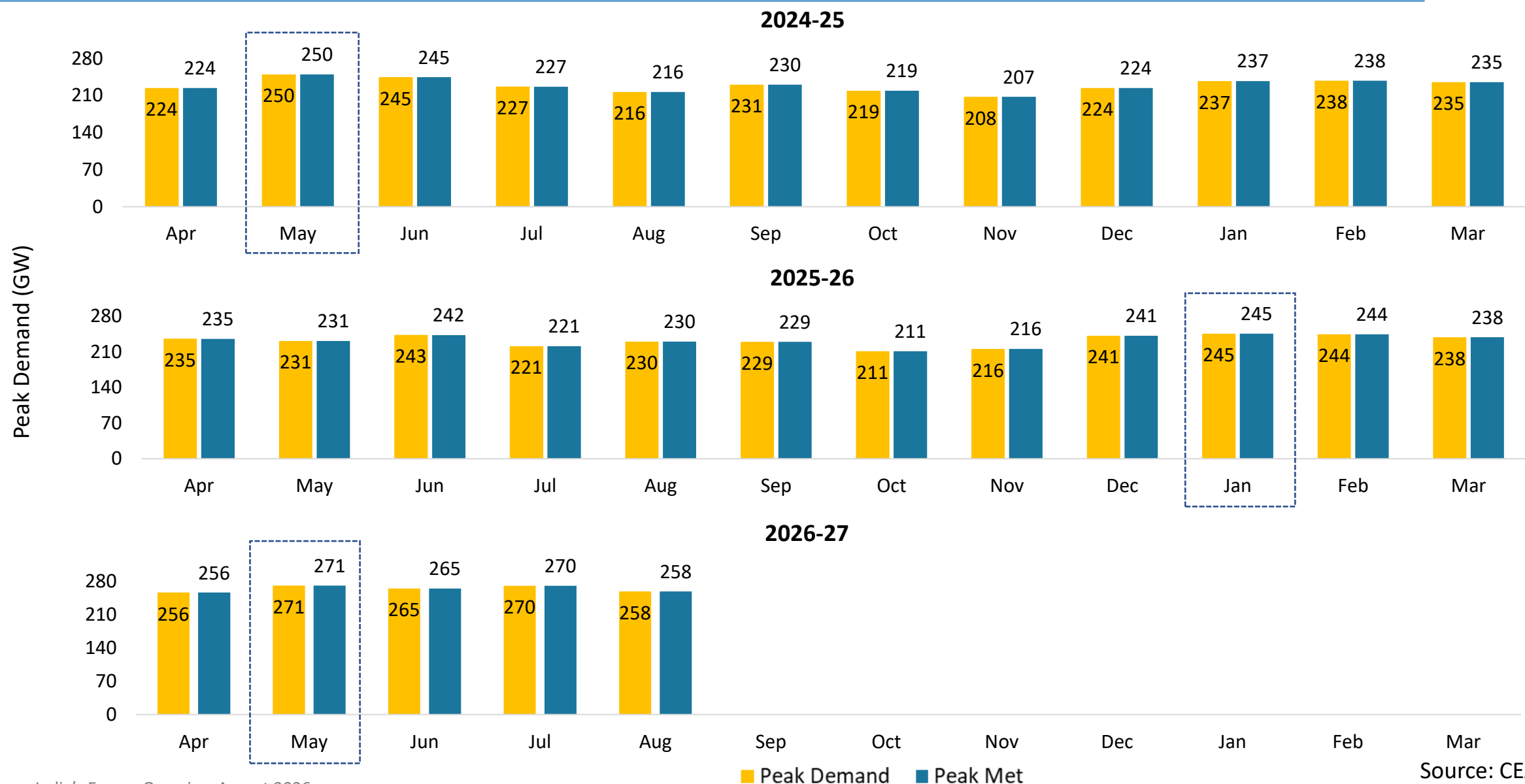
National and State level Peak Electricity Demand



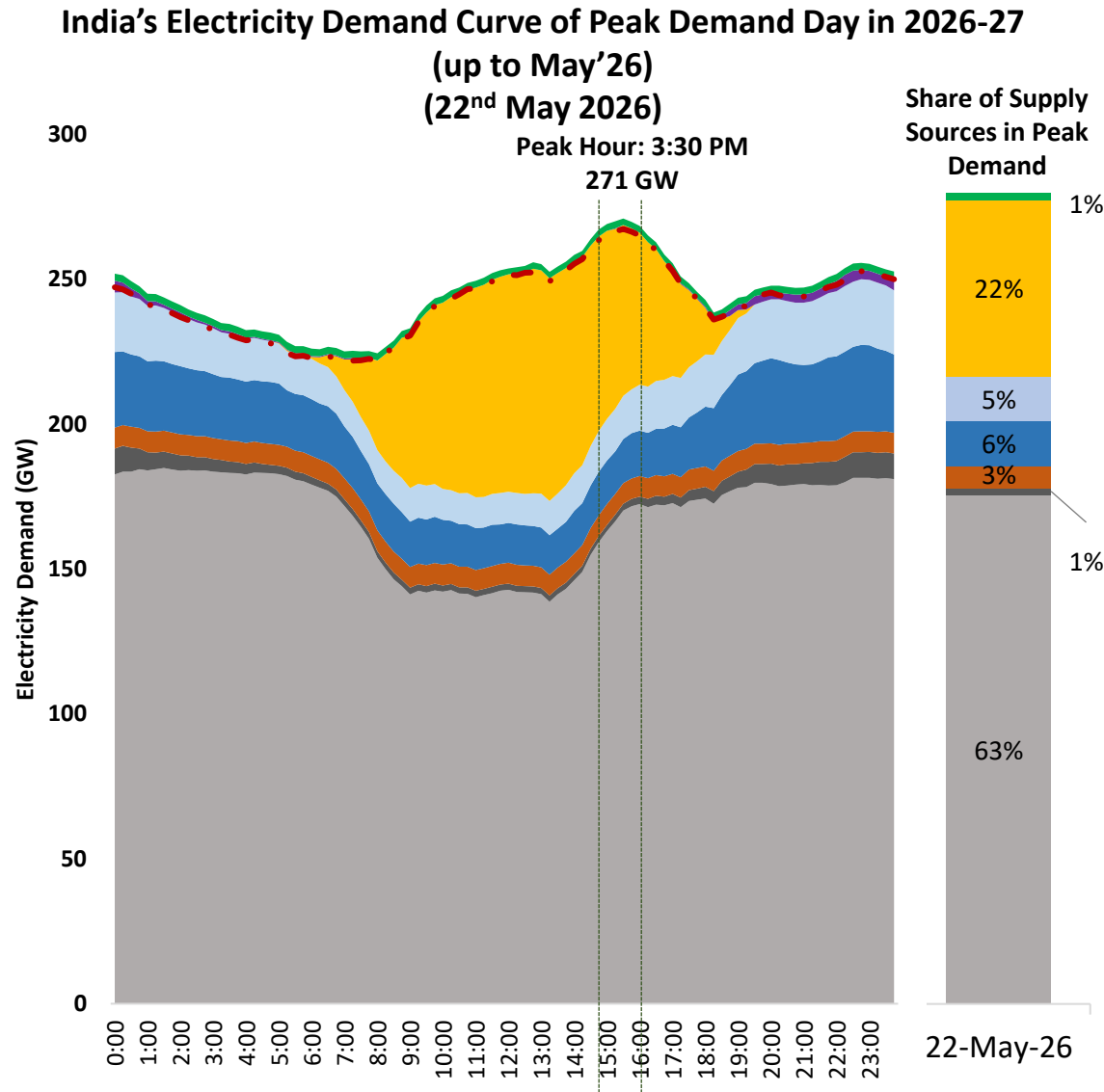
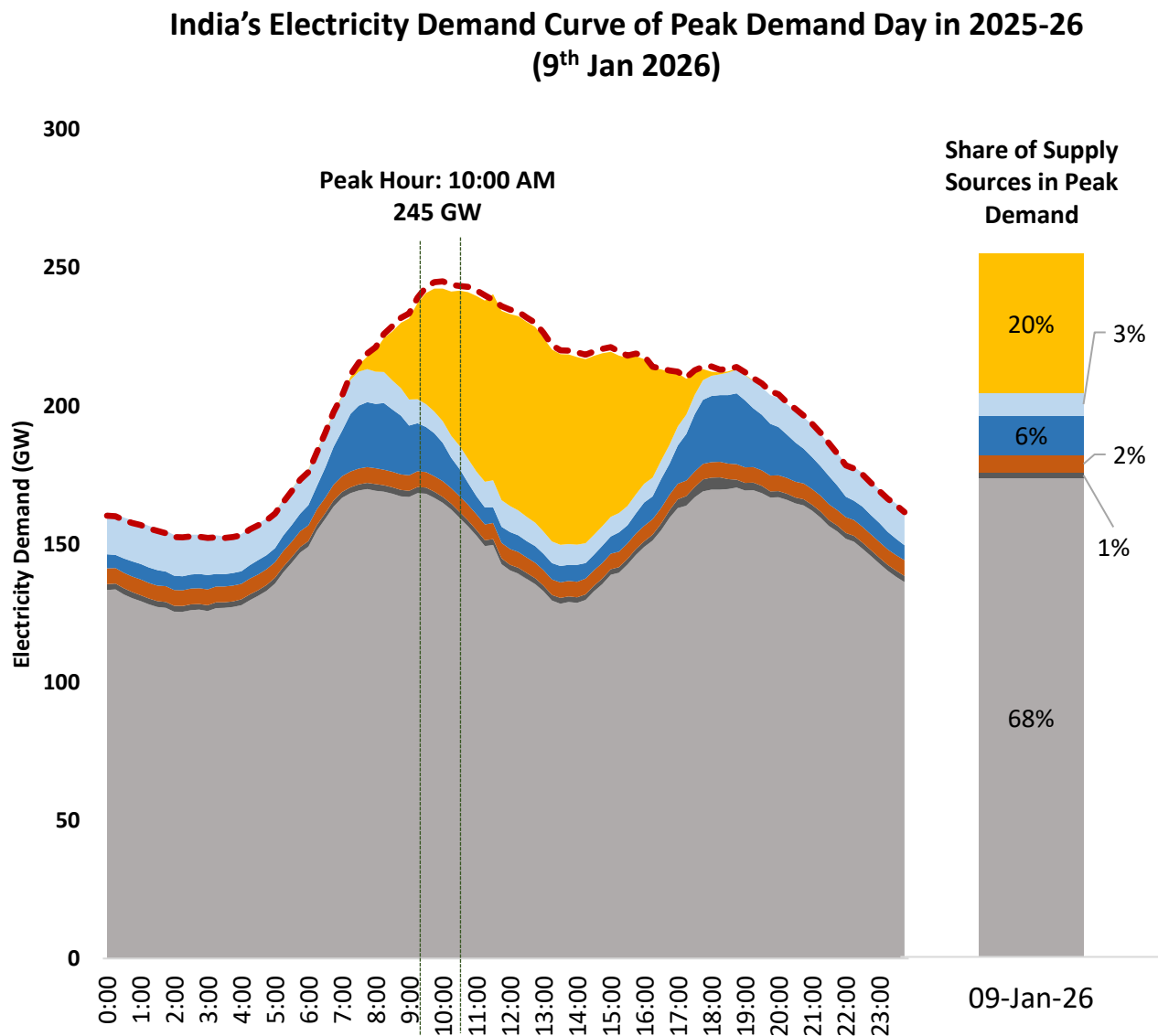
Month	Peak Demand (GW)	Peak Supply (GW)	Gap(GW) (+/-)
Aug'2024	216	216	0.0
Aug'2025	230	230	0.0
Aug'2026	258	258	0.0

Apr-Aug	Peak Demand (GW)	Peak Supply (GW)	Gap (GW) (+/-)
FY 2024-25	250	250	0.0
FY 2025-26	243	242	0.3
FY 2026-27	271	271	0.0

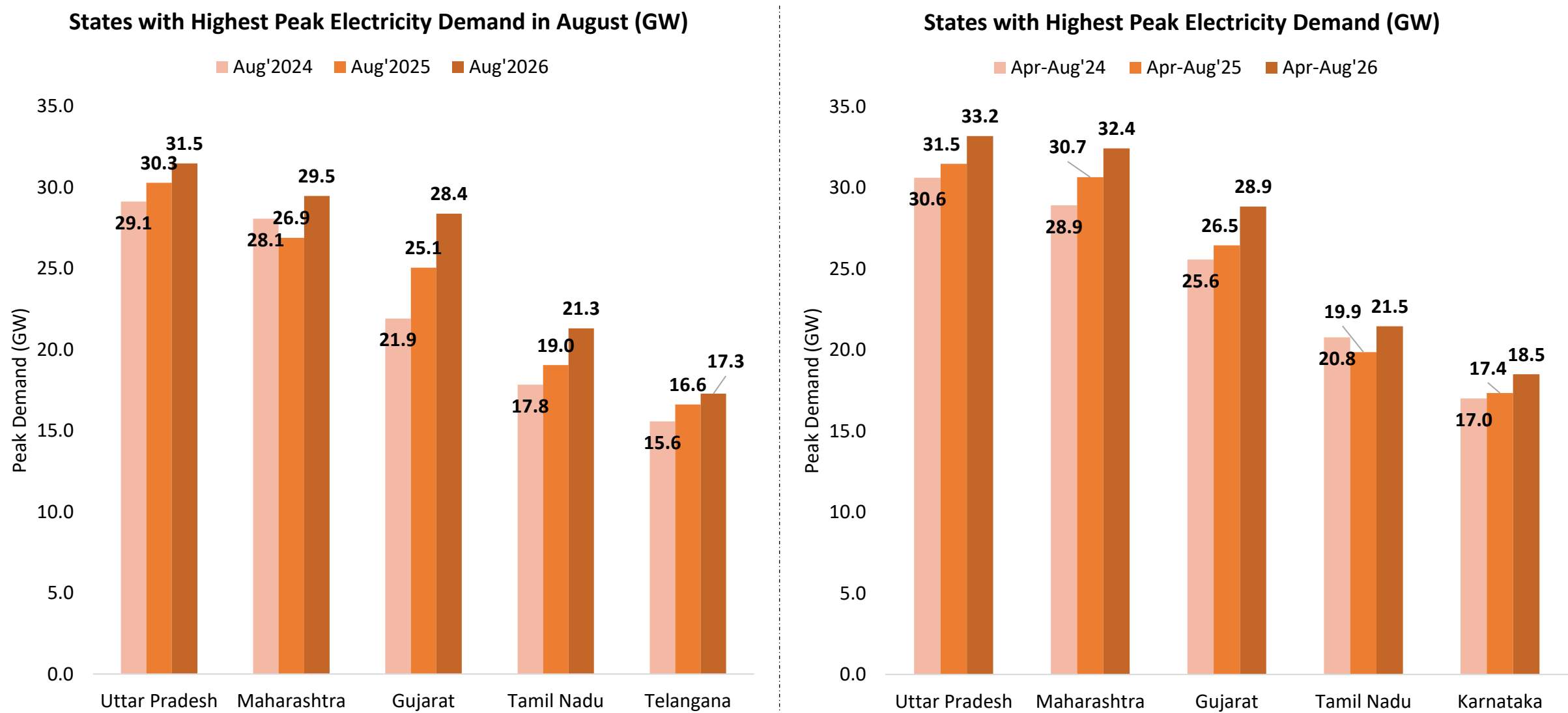
India's Monthly Peak Electricity Demand and Supply



All India and Source-wise Electricity Demand Curve of Peak Demand Day

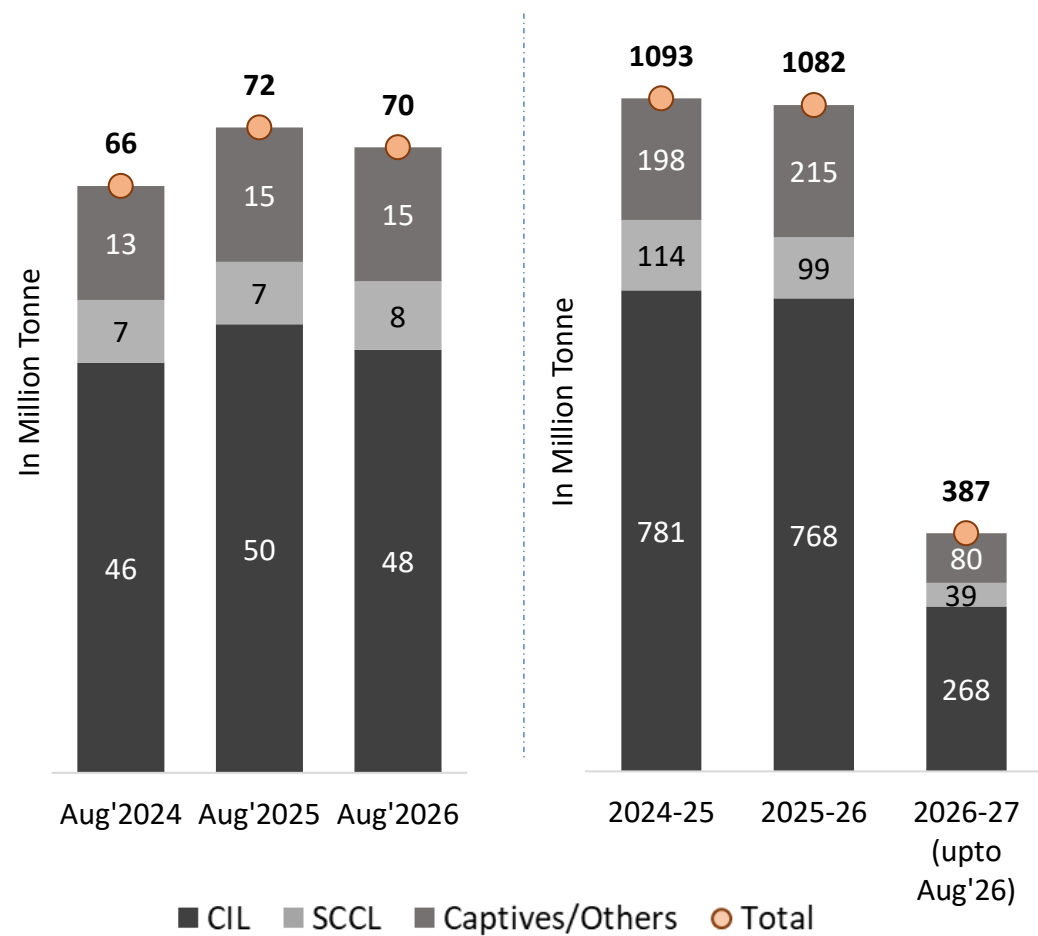


Monthly Peak Electricity Demand of the Top 5 States



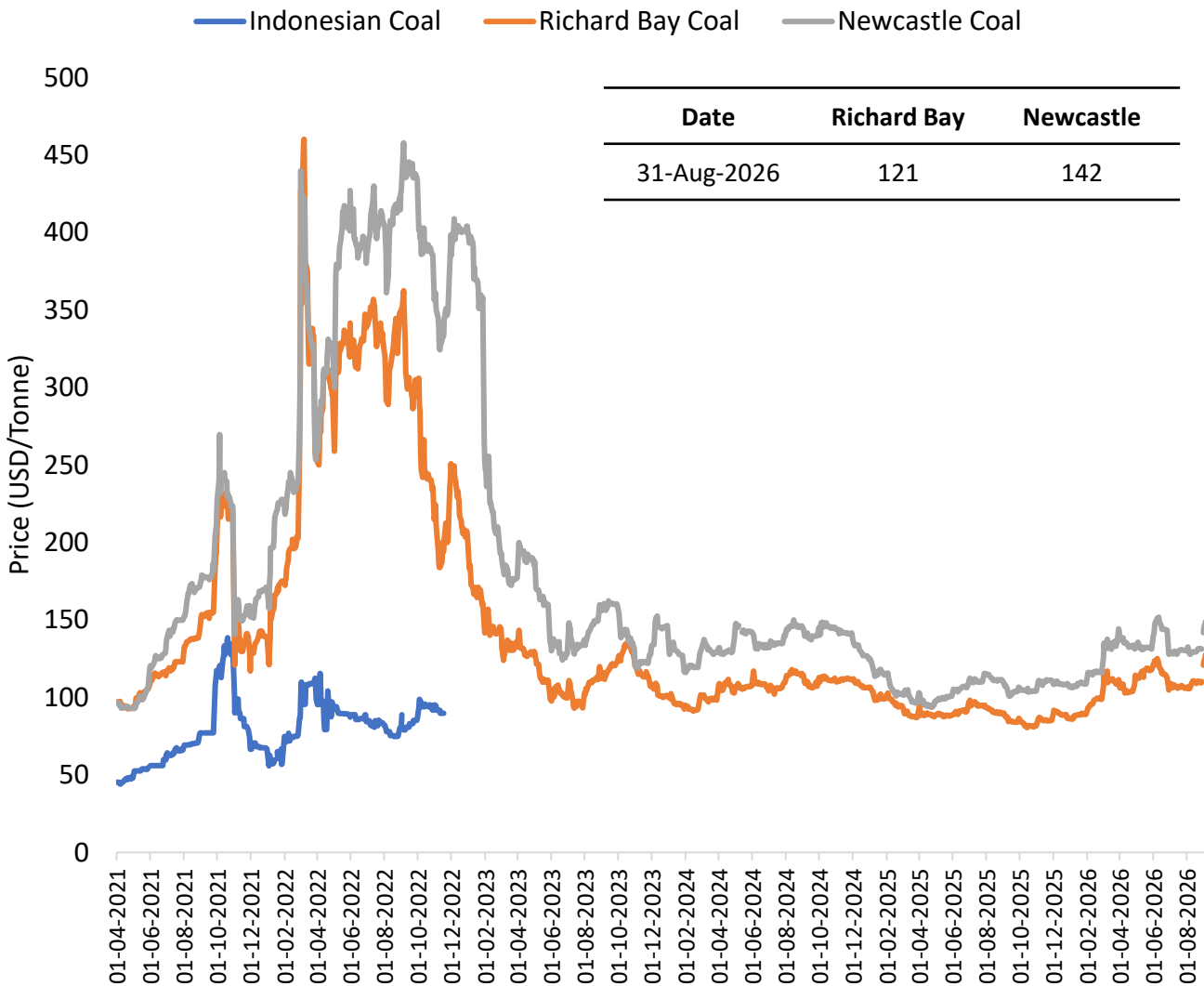
Monthly Coal Statistics

Monthly/ Annual Coal (incl. Lignite) Production
(in Million Tonnes)



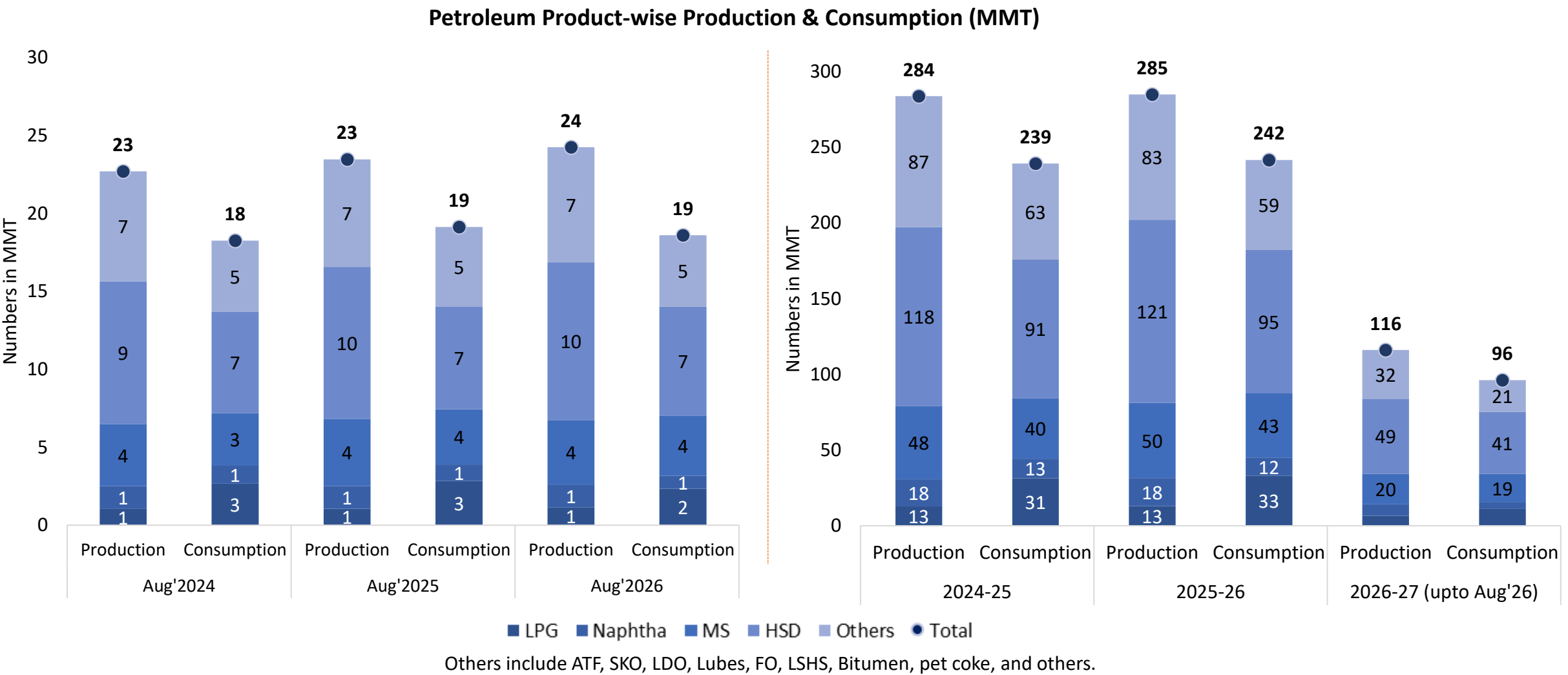
Source: Ministry of Coal

International Coal Prices



Source: Investing.com

Oil Market Scenario (1/3)



Abbreviations: ATF- Aviation Turbine Fuel, FO- Furnace Oil, HSD- High-Speed Diesel, LDO- Light Diesel Oil, MS- Motor Spirit (Petrol), SKO- Superior Kerosene Oil, LSHS- Low Sulphur Heavy Stock, LPG- Liquefied Petroleum Gas, MMT- Million Metric Tonne

Oil Market Scenario (2/3)

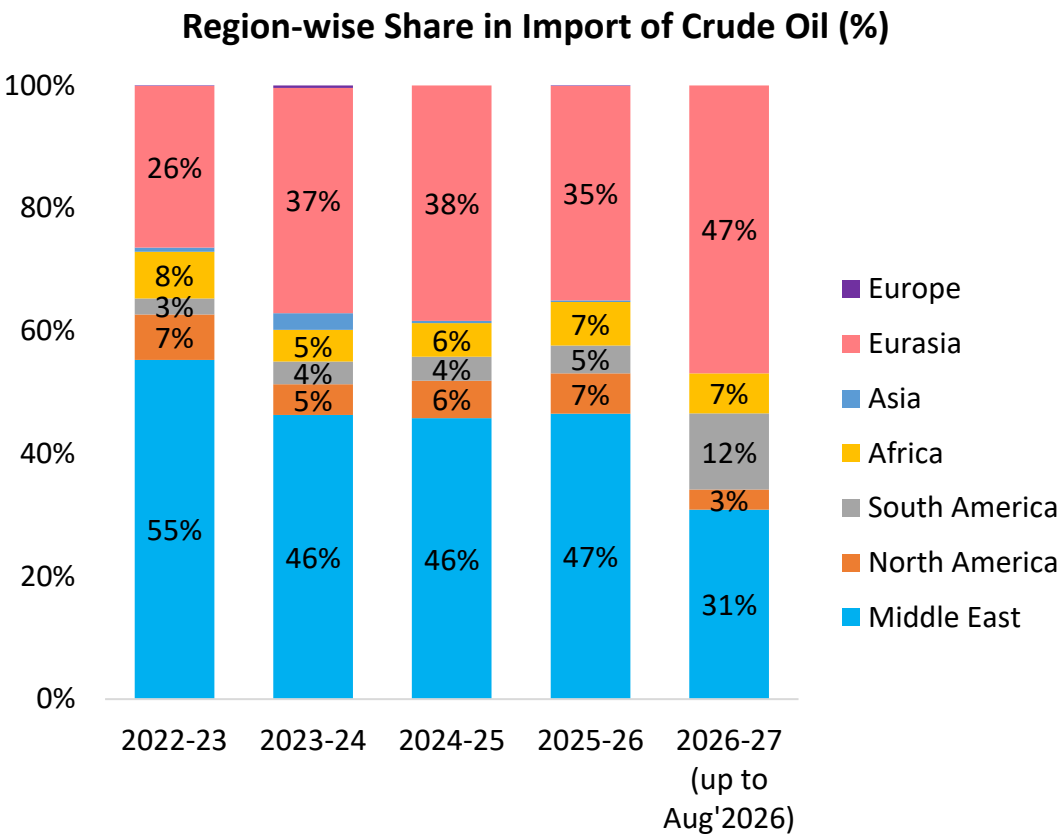
Import/Export of Crude Oil and Petroleum Products ('000 Tonnes)							
Petroleum Products	Import/ Export	Monthly			Yearly		
		Aug'24	Aug'25	Aug'26	2024-25	2025-26	2026-27 (Apr-Aug'26)
Crude Oil	Import	20180	19603	19014	243225	245769	100669
	Export	0	0	0	0	0	0
	Net Import	20180	19603	19014	243225	245769	100669
LPG	Import	1775	1932	1304	20667	21268	4992
	Export	44	43	61	551	566	218
	Net Import	1731	1889	1243	20116	20702	4774
Diesel	Import	2	4	3	42	38	9
	Export	2099	2583	2089	28027	27318	8976
	Net Import	-2096	-2580	-2086	-27985	-27280	-8967
Petrol	Import	0	0	0	235	0	0
	Export	1177	1525	1304	15830	16666	5422
	Net Import	-1177	-1525	-1304	-15596	-16666	-5422
Others	Import	2425	2596	1412	29960	24887	6246
	Export	1774	1511	1466	20667	16877	6910
	Net Import	651	1085	-54	9293	8010	-664

*Others include ATF, Naphtha, SKO, LDO, Lubes, FO, LSHS, Bitumen, pet coke, and others.

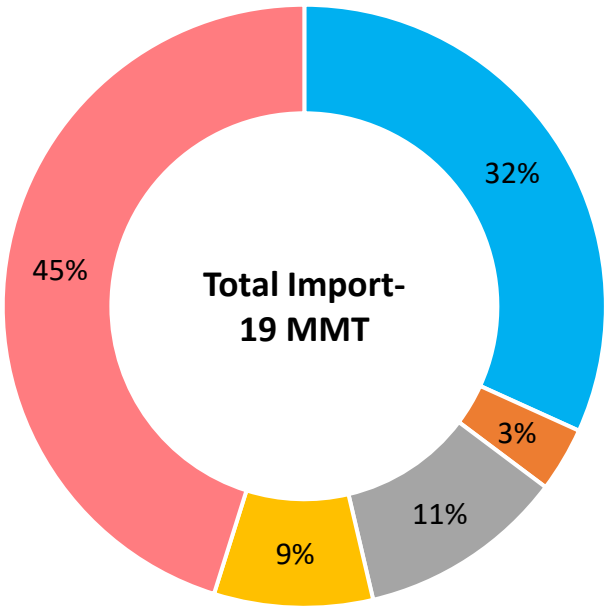
NOTE: The data is available latest up to August 2026.

Source: PPAC

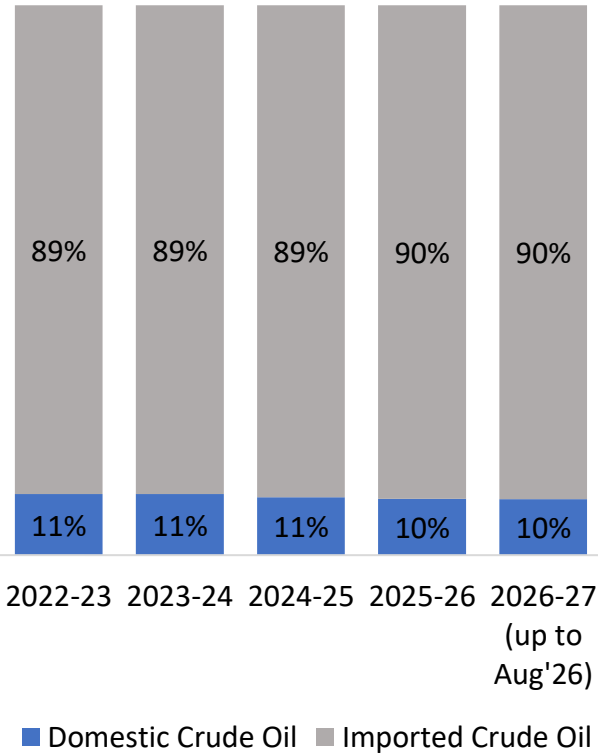
Oil Market Scenario (3/3)



Regional share of Imported Crude oil in August 2026



Domestic and Imported Crude Oil share in India (%)

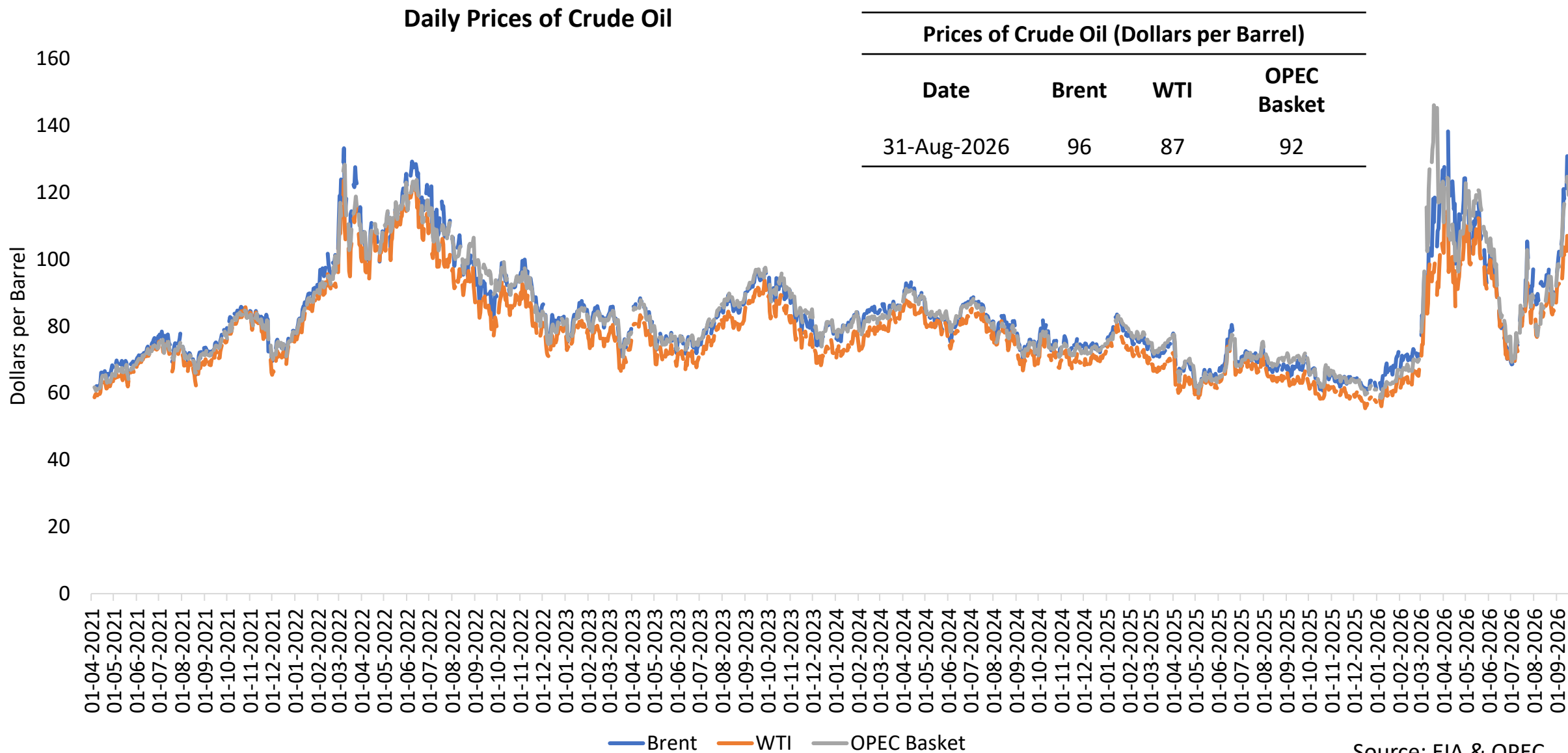


Total Import of Crude Oil (MMT)			
Total Import	2024-25	2025-26	2026-27 (up to Aug'26)
Crude Oil	243	246	101

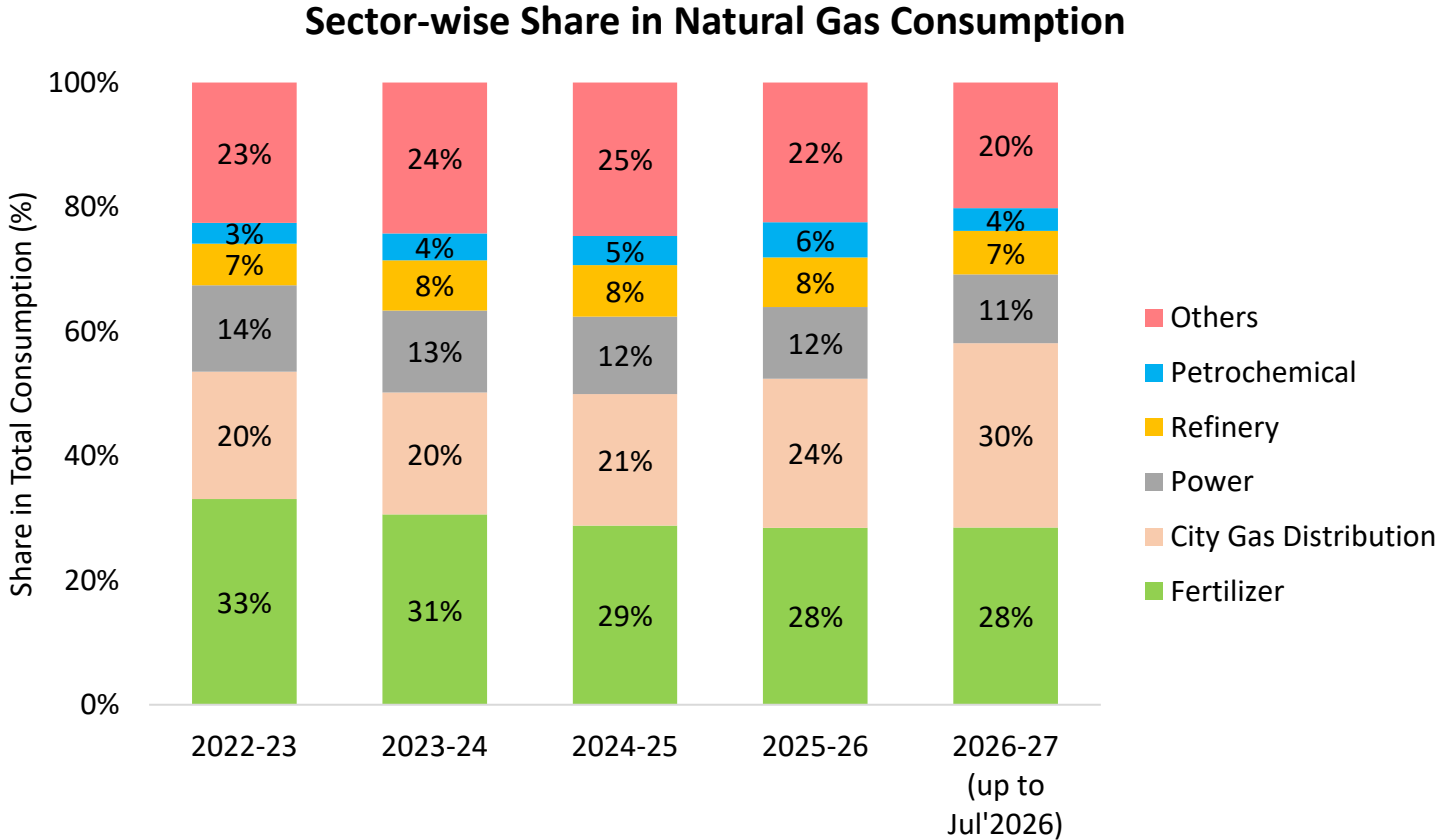
NOTE: The data is based on the latest available information.

Source: MoPNG and PPAC

Daily Prices of Crude Oil

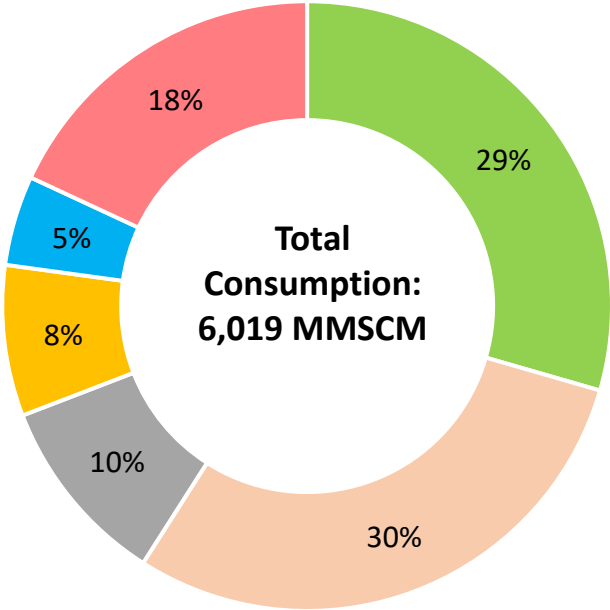


Gas Market Scenario (1/2)



Total Consumption of Natural Gas (NG) (MMSCM)					
Total Consumption	2022-23	2023-24	2024-25	2025-26	2026-27 (up to Jul'2026)
Natural Gas	58,702	68,809	71,196	69,048	22,751

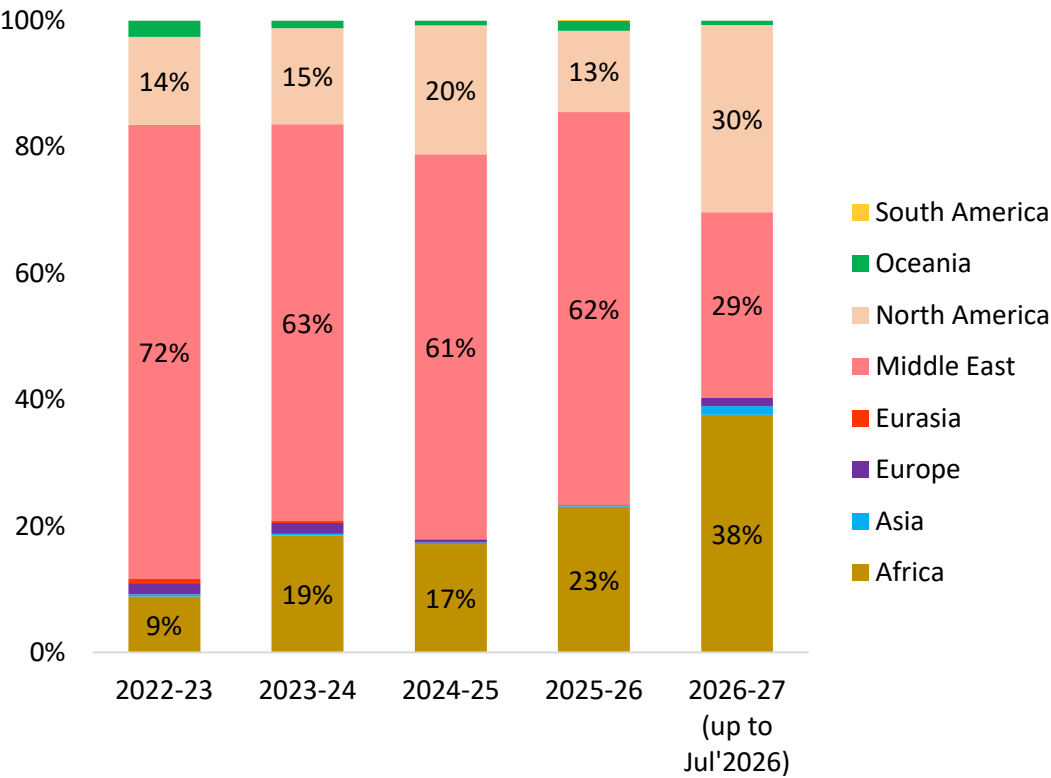
Sector-wise share in Natural Gas Consumption in July 2026



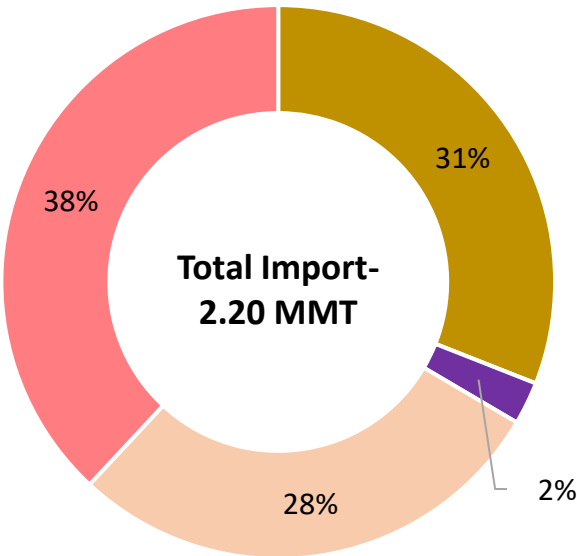
Others include- Internal Consumption of Pipeline System, Industrial, Sponge iron/steel, LPG shrinkage, Manufacturing, Agriculture (tea plantation), Others

Gas Market Scenario (2/2)

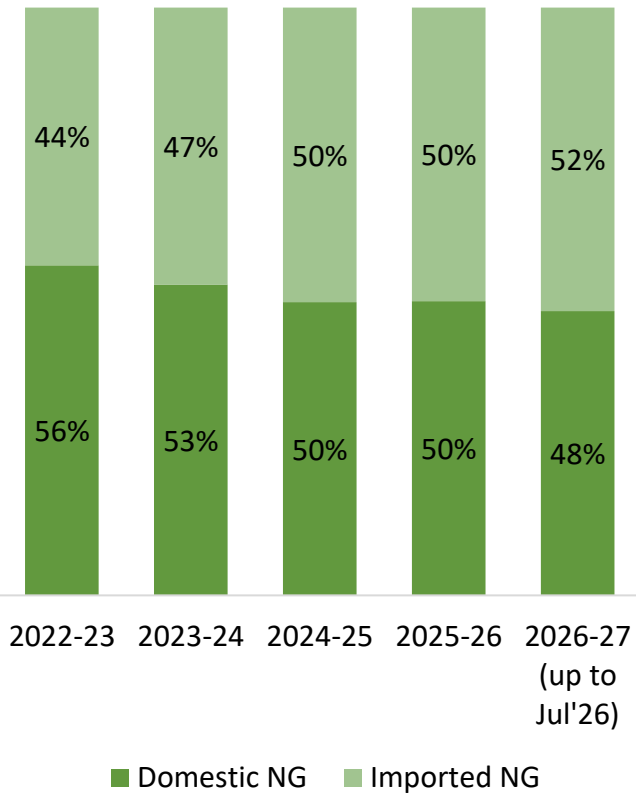
Region-wise Share in Import of LNG (%)



Regional Share of Imported LNG in July 2026

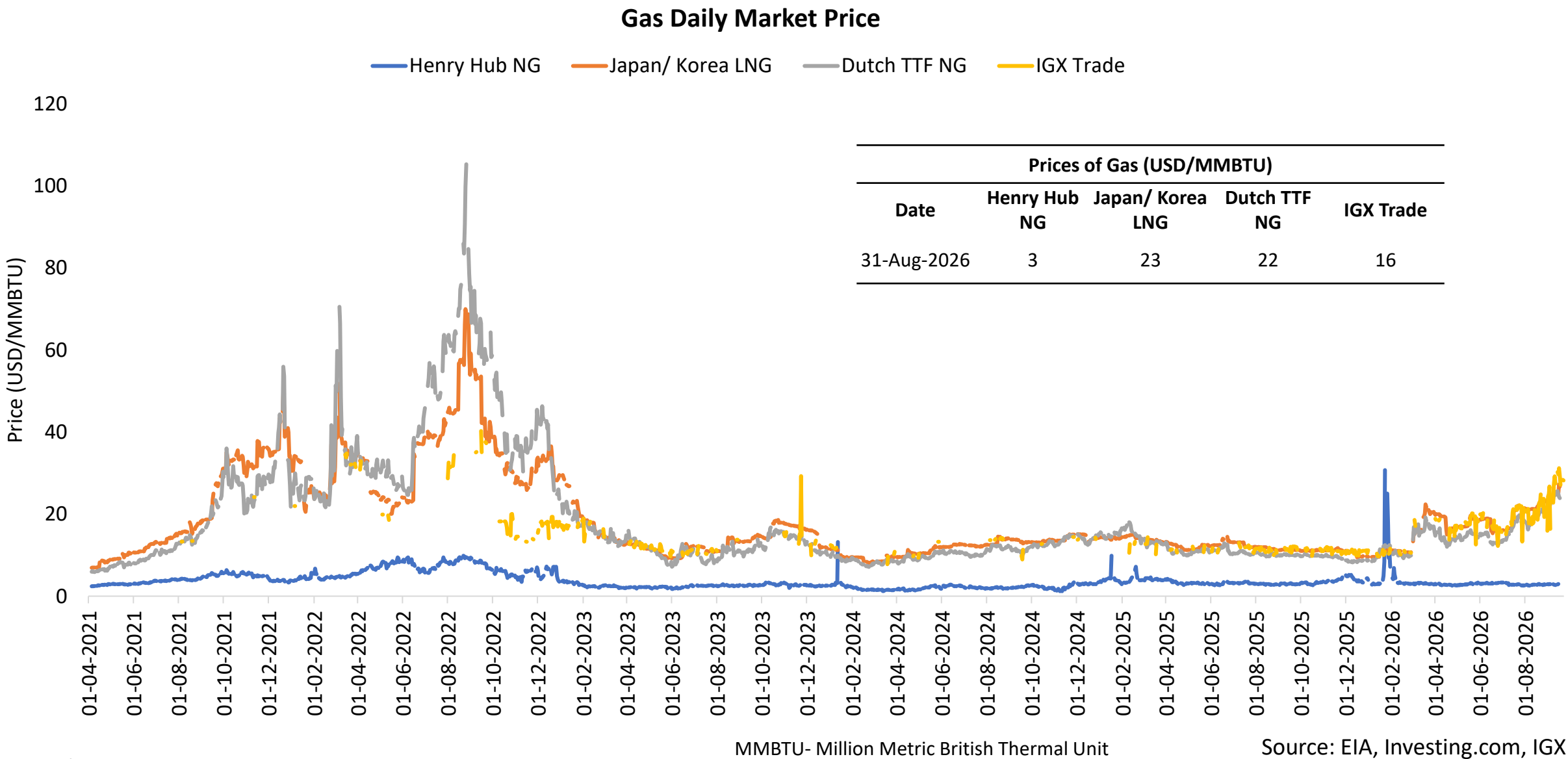


Domestic and Imported Natural Gas share in India (%)

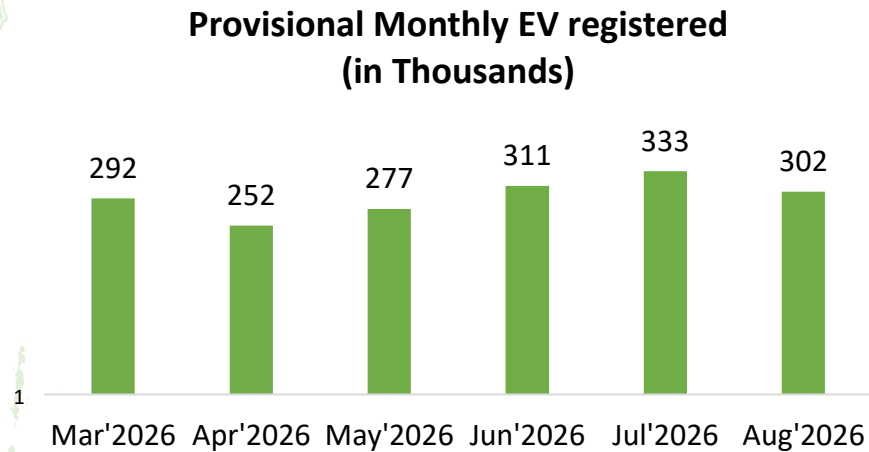
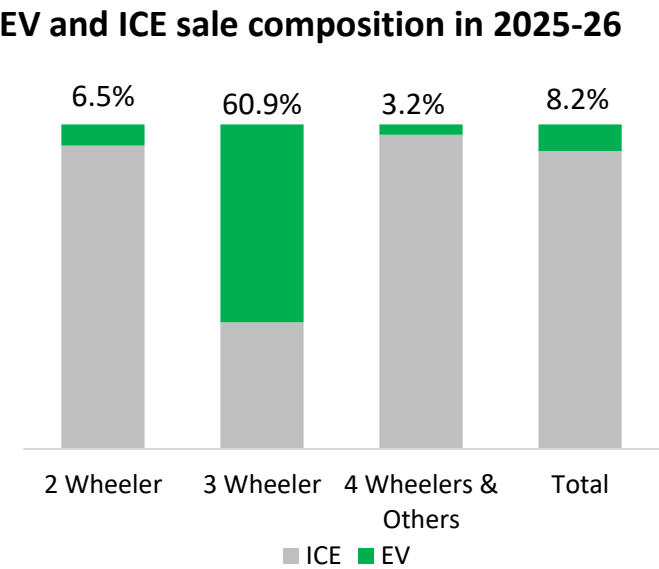
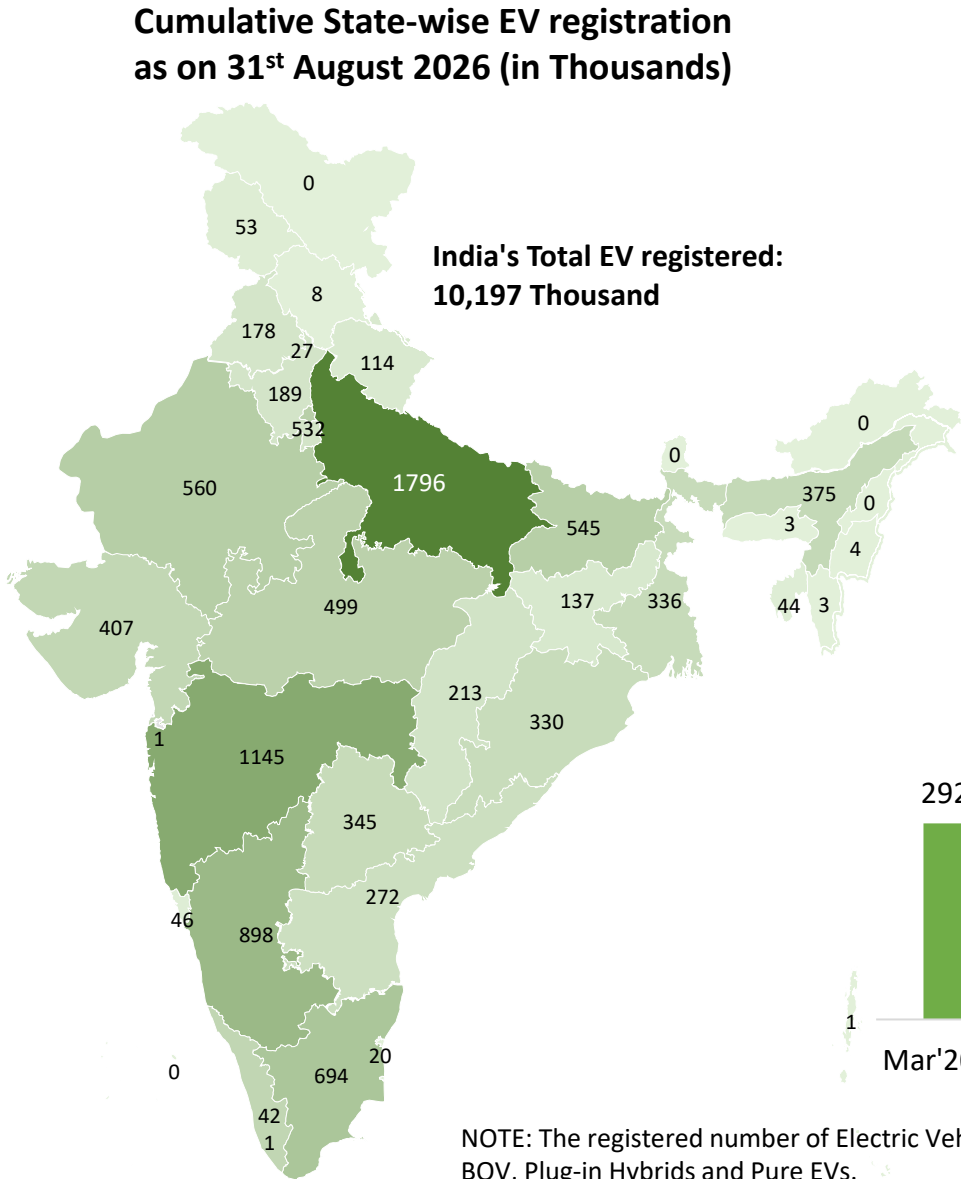
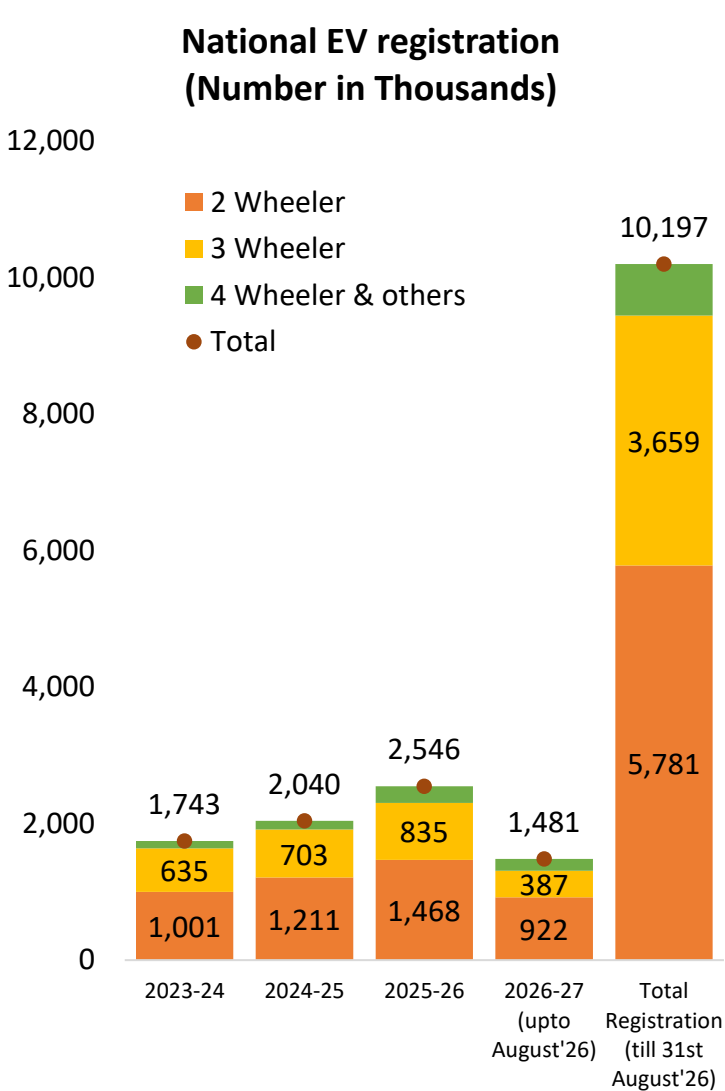


Total Import of Liquified Natural Gas (LNG) (MMT)			
Total Import	2024-25	2025-26	2026-27 (up to Jul'2026)
LNG	26.96	25.82	8.96

Daily Prices of Gas



Status of Electric Mobility in India (1/2)

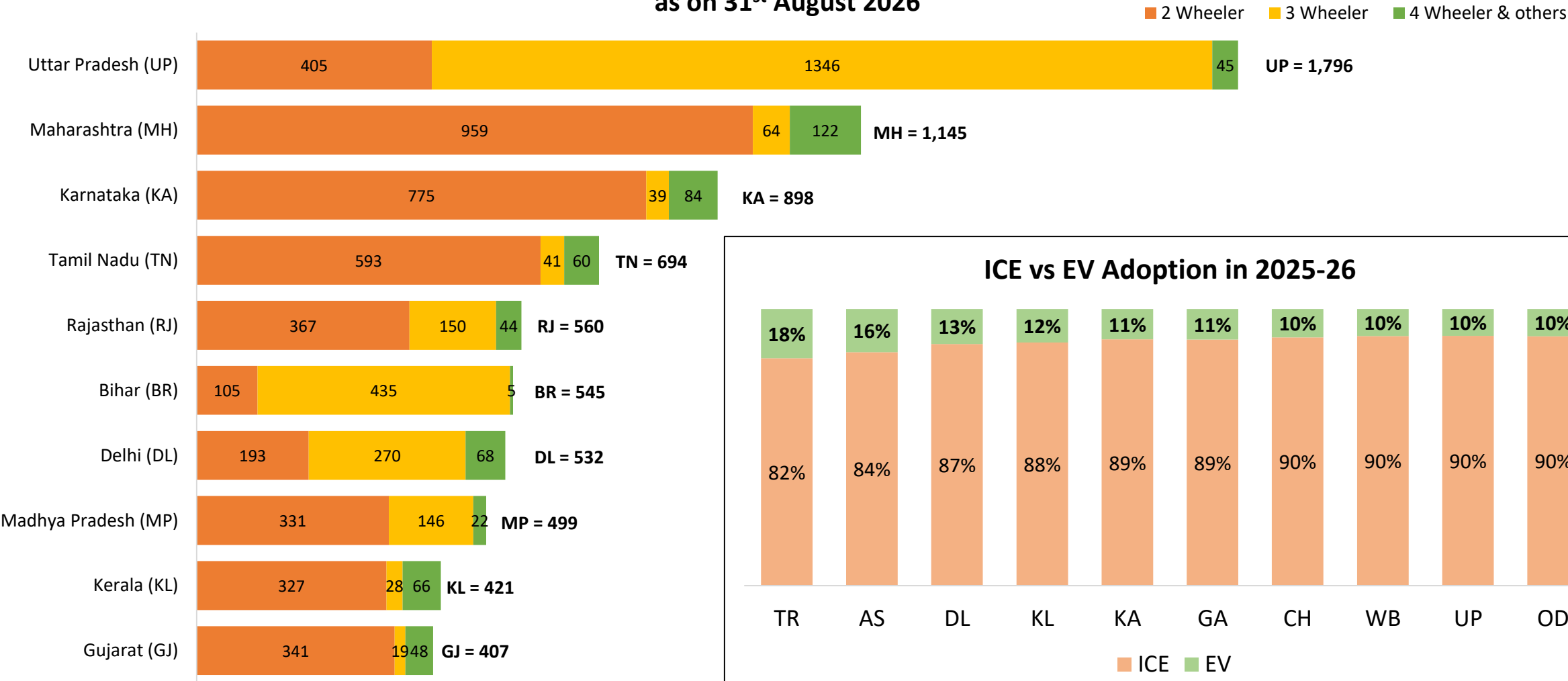


NOTE: The registered number of Electric Vehicles includes Electric BOV, Plug-in Hybrids and Pure EVs.

Source: VAHAN Dashboard

Status of Electric Mobility in India (2/2)

Top 10 States for Electric Vehicles (in Thousands)
as on 31st August 2026



Recent Key Highlights or Announcements

- On 16th September 2026, Union Minister of State for Environment, Forest and Climate Change, Shri Kirti Vardhan Singh, launched [India's Net Zero Portal and the National Action Plan on Climate Change \(NAPCC\) Dashboard](#).
 - The Net Zero Portal is a centralised digital platform for voluntary registration and disclosure of Net Zero commitments by Indian entities across sectors. Participating entities can disclose their greenhouse gas (GHG) emissions, declare Net Zero targets and provide annual progress updates.
 - The NAPCC Dashboard provides a consolidated digital view of implementation and progress across the National Missions under the NAPCC. It brings together mission-related information and identified indicators on a common platform, facilitating systematic monitoring by concerned Ministries and Departments.
- CEA has released the latest [CO₂ Baseline Database \(Version 22.0\)](#), highlighting a decline in India's grid emission intensity and power-sector CO₂ emissions. Some of the key outcomes are-
 - India's weighted average grid emission factor declined to 0.675 tCO₂/MWh in 2025-26, from 0.710 tCO₂/MWh in 2024-25.
 - Absolute CO₂ emissions from the power sector decreased to 1,189 MtCO₂ in 2025-26, compared with 1,236 MtCO₂ in 2024-25.
 - Biomass co-firing in coal-based thermal power plants increased from 1.618 million tonnes in 2024-25 to around 3.07 million tonnes in 2025-26, representing nearly 90% growth. This resulted in estimated CO₂ emission savings of around 3.68 million tonnes in 2025-26, as reported under the National Biomass Mission.
 - The [National Institute of Solar Energy \(NISE\)](#) estimates India's floating solar potential at approximately 102.18 GWp, considering the use of only 20% of reservoir areas (1,946.24 km²). The study also identifies a feasible waterbody potential of 238.66 GWp across an area of 4,546.01 km².

Recent Key Highlights or Announcements

- NITI Aayog released the second edition of the [India Electric Mobility Index \(IEMI\) 2025](#), a composite index assessing the policy framework and implementation outcomes for e-mobility across 28 States and 8 Union Territories. The Index evaluates performance across three themes: Transport Electrification Progress, Charging Infrastructure Readiness, and EV Research & Innovation. The key highlights are:
 - Delhi recorded the highest overall IEMI score at 84, followed by Maharashtra (78), Karnataka (73), Chandigarh (71), and Goa (65).
 - Several states and UTs recorded significant improvements in their overall rankings compared with 2024: Madhya Pradesh moved from 23rd to 7th, Goa from 15th to 5th, Puducherry from 27th to 17th, Bihar from 26th to 18th and Jammu & Kashmir from 34th to 27th.
- [Rajasthan Renewable Energy Corporation Limited \(RRECL\) has launched the Distributed Renewable Energy Project Monitoring Tool \(DRE-PMT\)](#), a digital platform for monitoring and managing renewable energy projects across Rajasthan. The platform integrates project and real-time generation monitoring, subsidy and DBT workflow tracking, and DISCOM-level project and generation monitoring. It also supports monitoring of PM-KUSUM and PM Surya Ghar schemes, along with vendor management and empanelment, centralised dashboards, and data analytics. The platform is aimed at strengthening transparency, operational efficiency, and data-driven decision-making for monitoring Rajasthan's expanding renewable energy ecosystem.



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FOUNDATION
Green ways for a good earth!

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