

India's Energy Overview

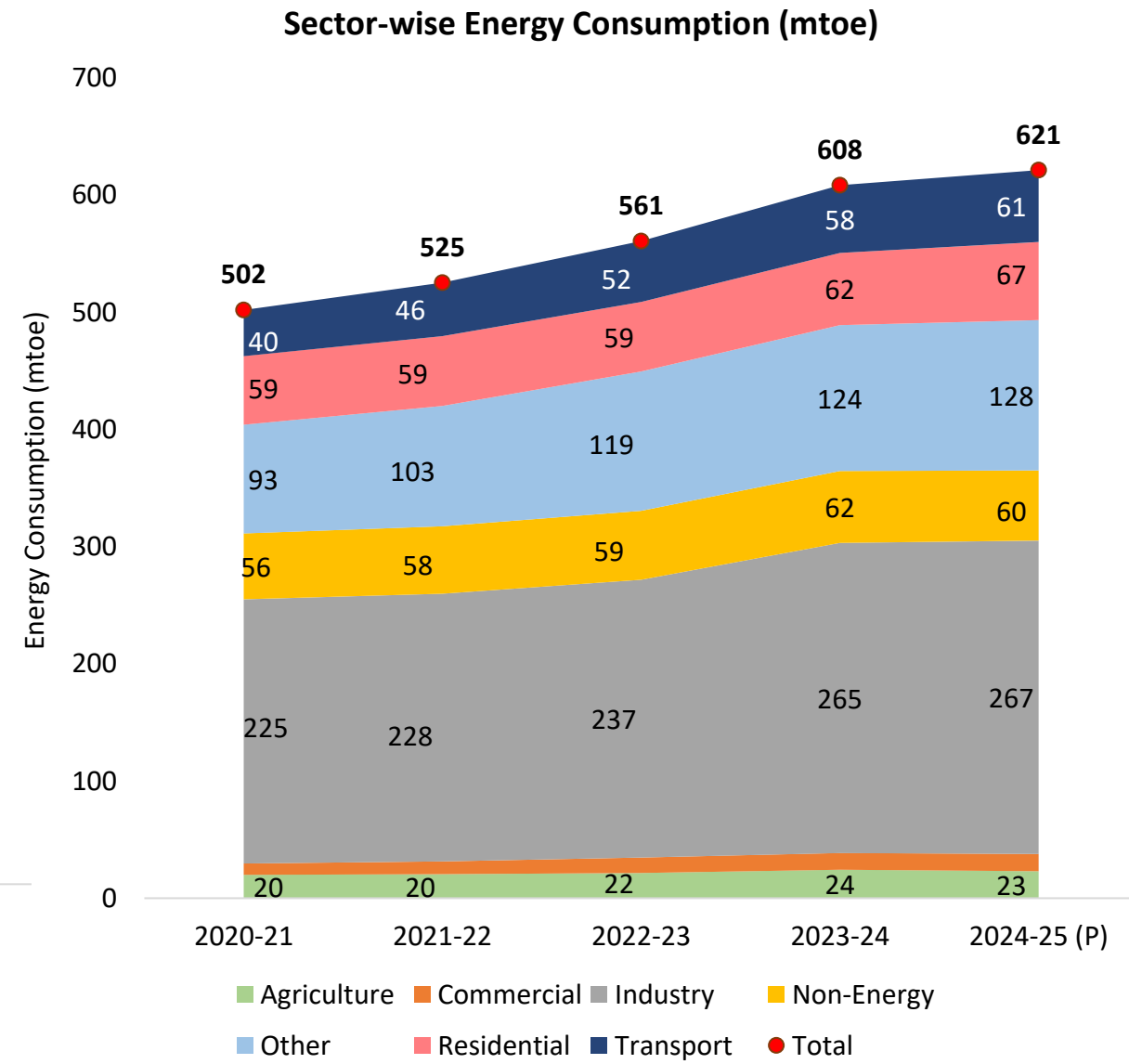
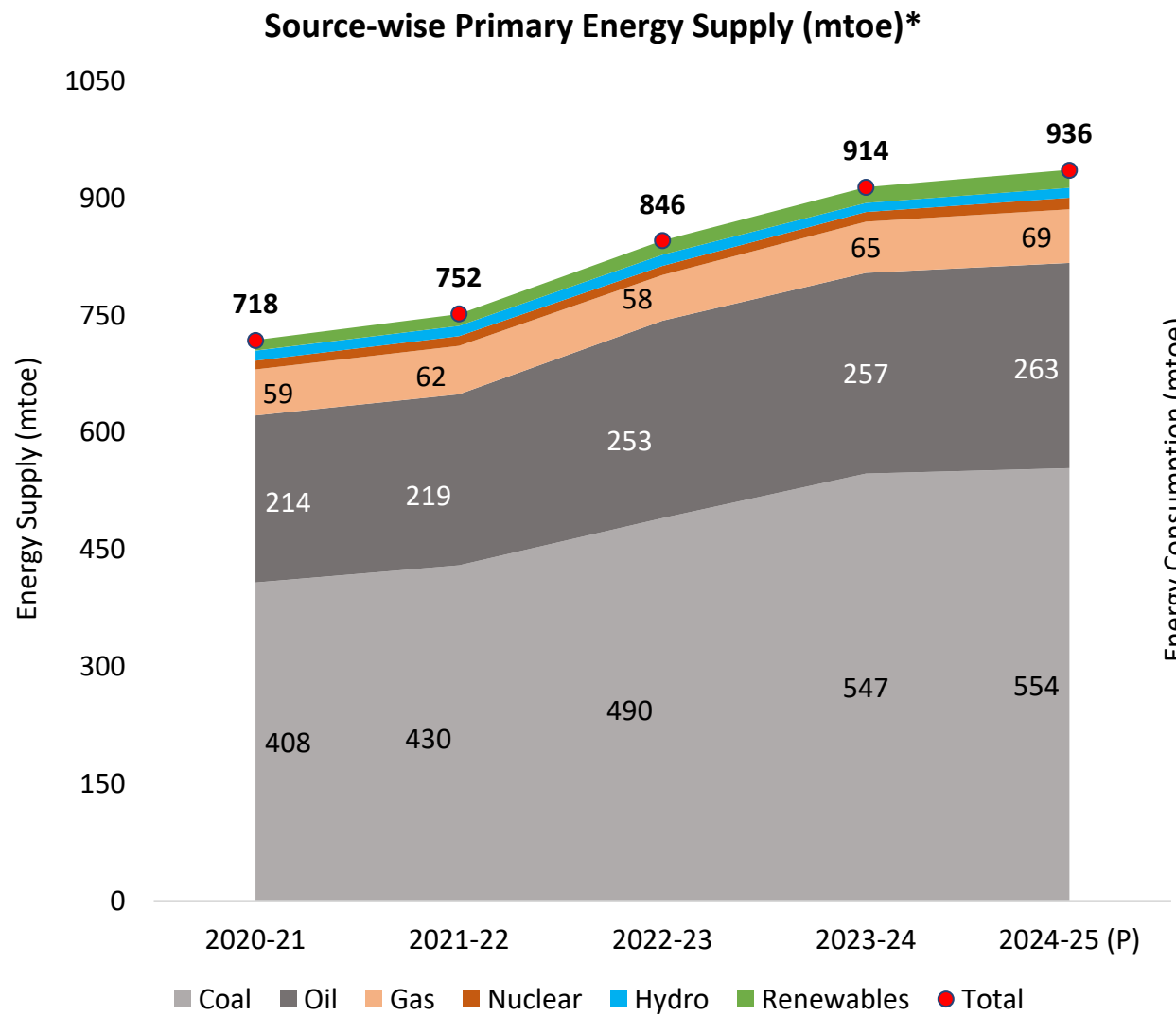
July 2026



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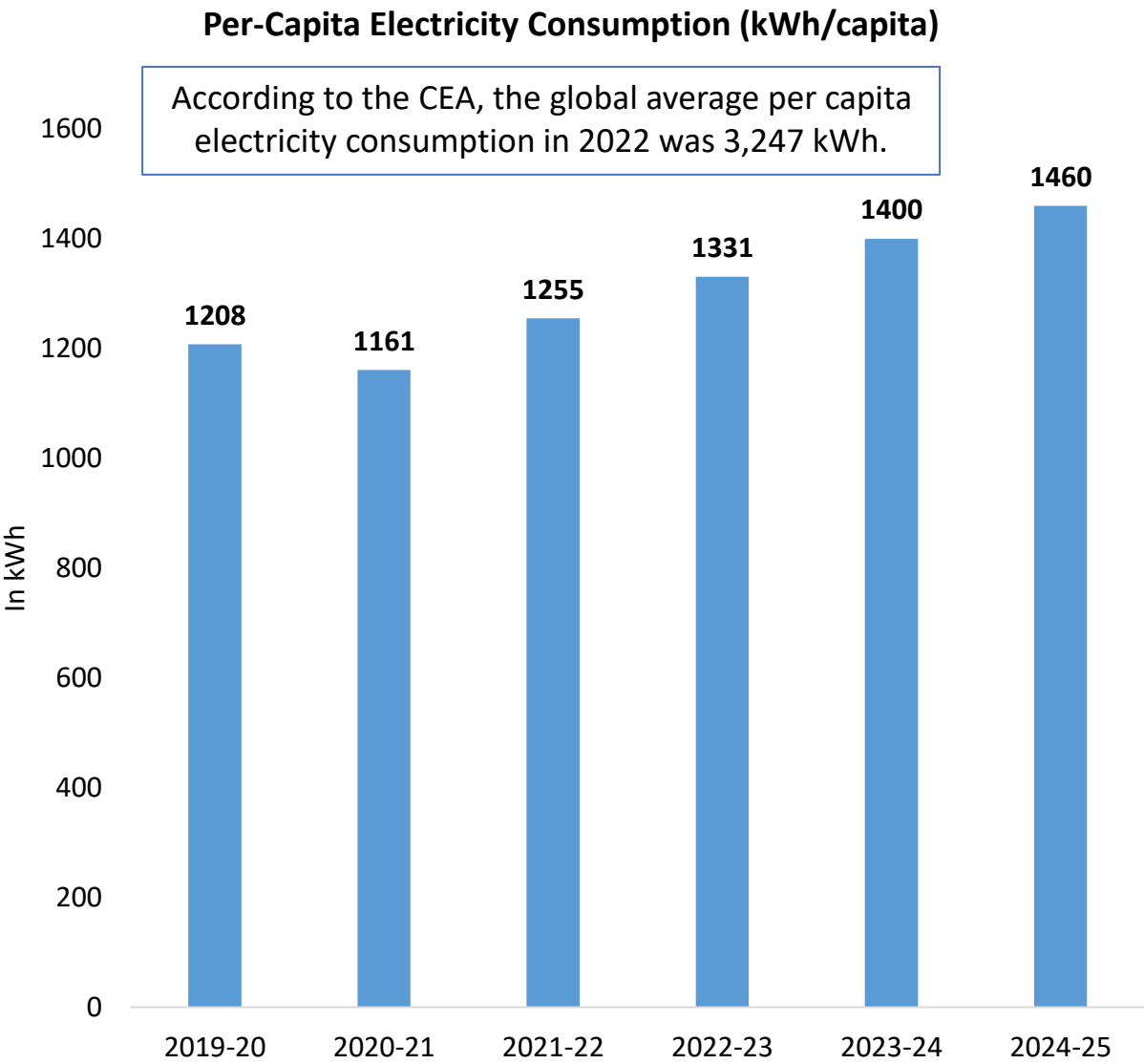
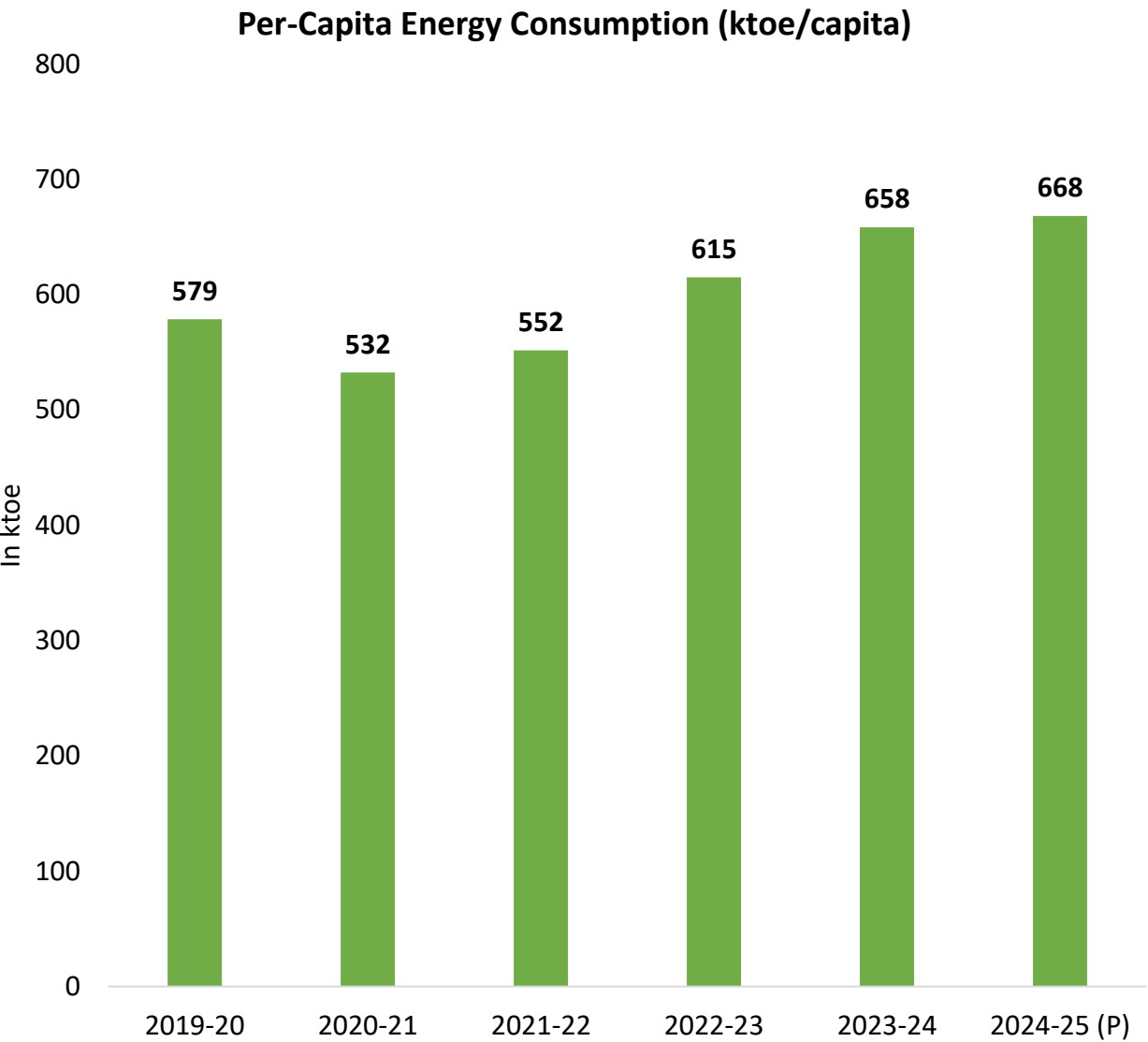
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Primary* and Final Energy Mix in India



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

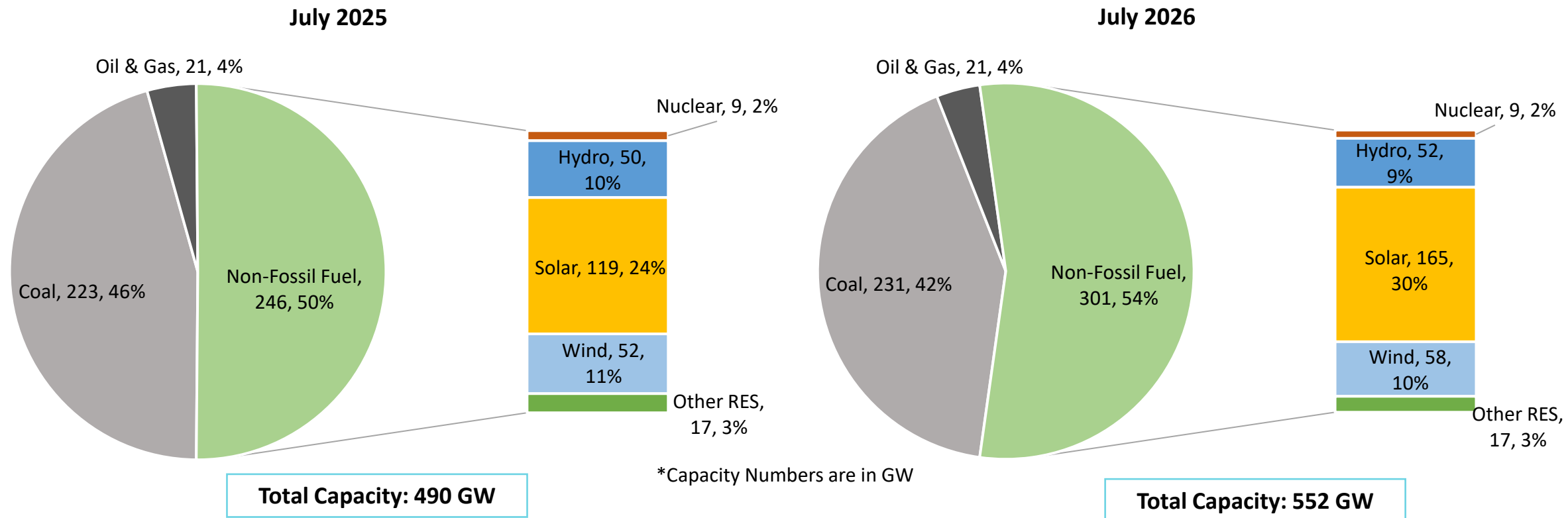
Per-Capita Energy and Electricity Consumption



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

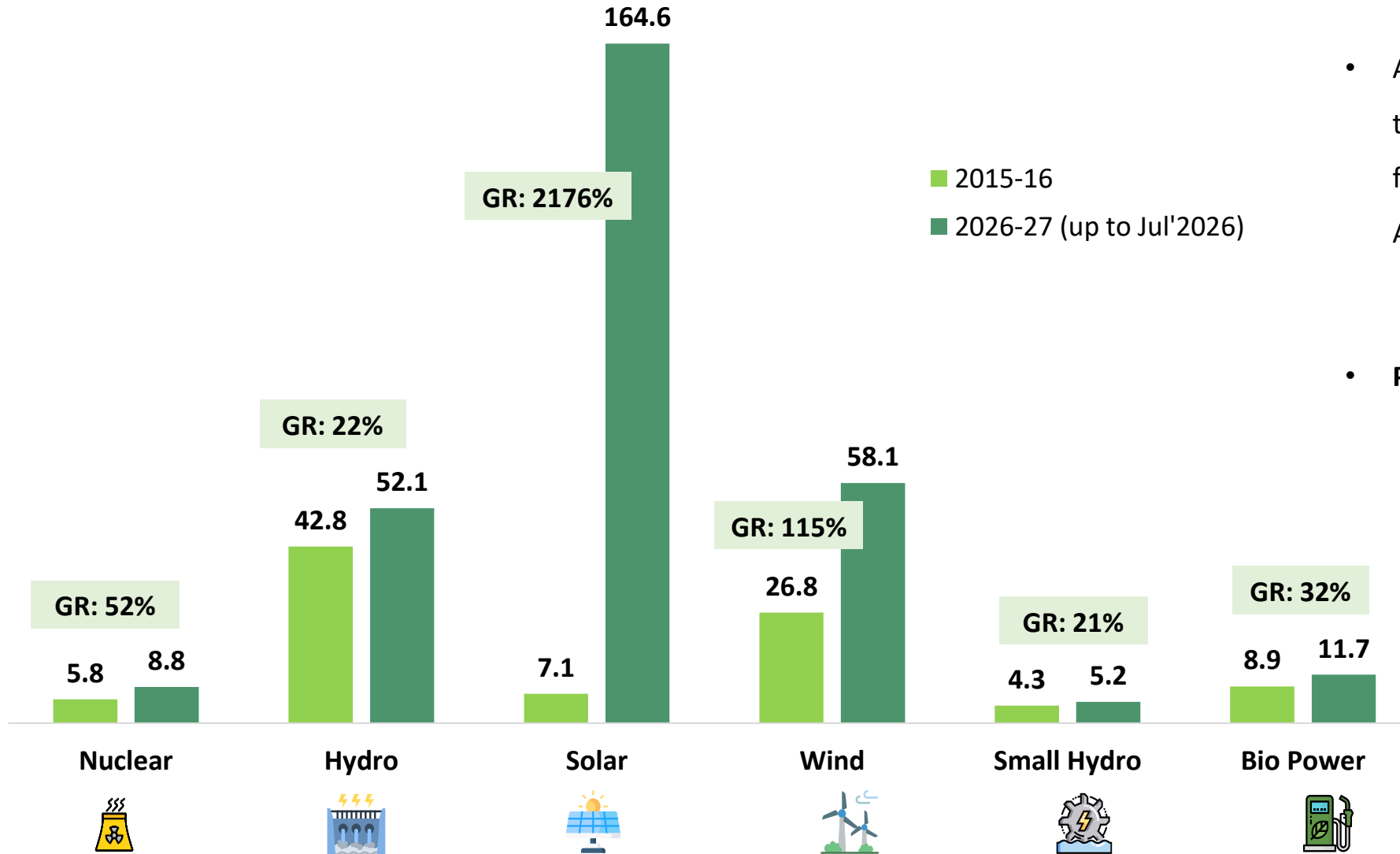
Source: ICED & CEA

India's Electricity Capacity Mix (Utility-scale)



- India's electricity generating capacity is 552 GW as on July 2026 [coal 231 GW (42%), solar 165 GW (30%), wind 58 GW (10%), and large hydro 52 (9%)].
- As on July 2026, the share of non-fossil-based electricity capacity is 54% against the updated target of 60% non-fossil capacity by 2035.
- As on July 2026, India's renewable energy capacity (including large hydro) stood at 292 GW out of 552 GW.

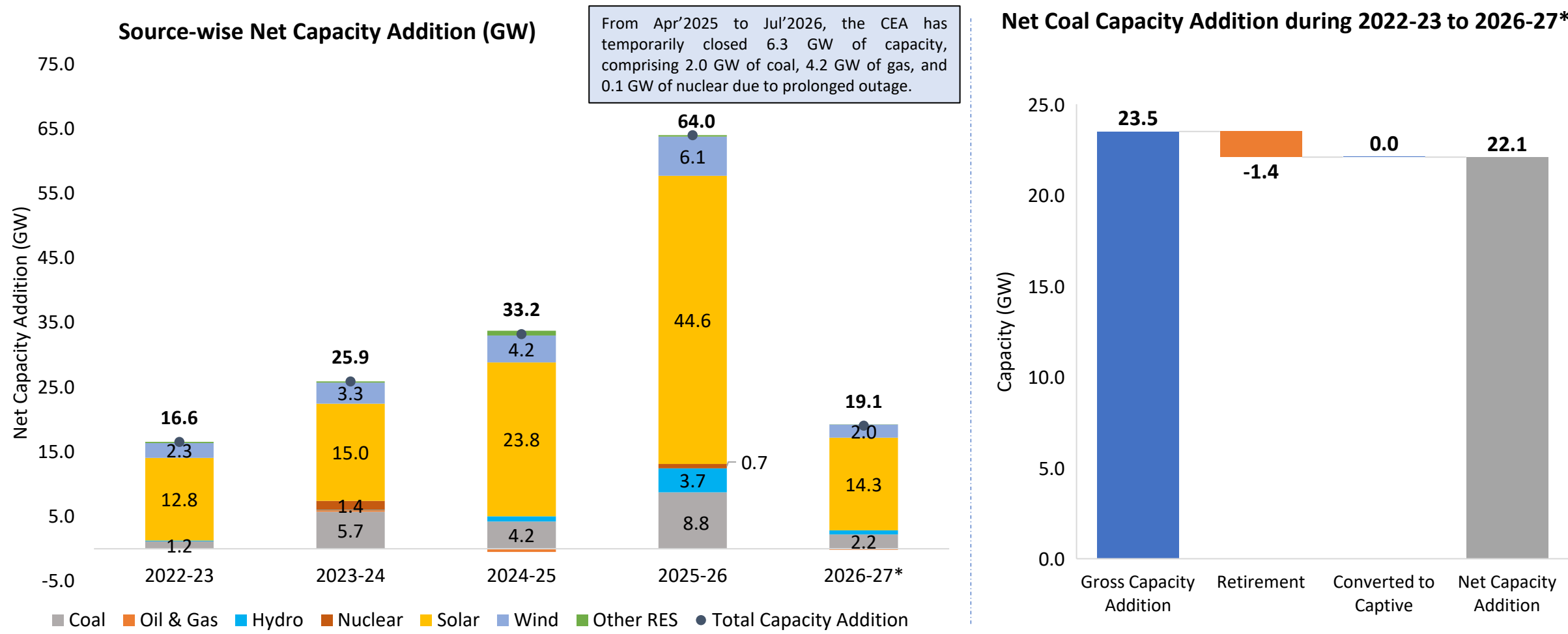
Non-Fossil Energy Capacity (in GW) Growth Post-2015 Paris Agreement



- As of 31 July 2026, **54% (301 GW)** of India's total power capacity (**552 GW**) is now non-fossil fuel-based, meeting the Paris Agreement pledge.

- Post-2015 Paris Agreement Growth:**
 - solar capacity increased **23-folds**
 - wind power **doubled**
 - nuclear increased by **4% CAGR**.

India's Electricity Capacity Addition in last 5 years



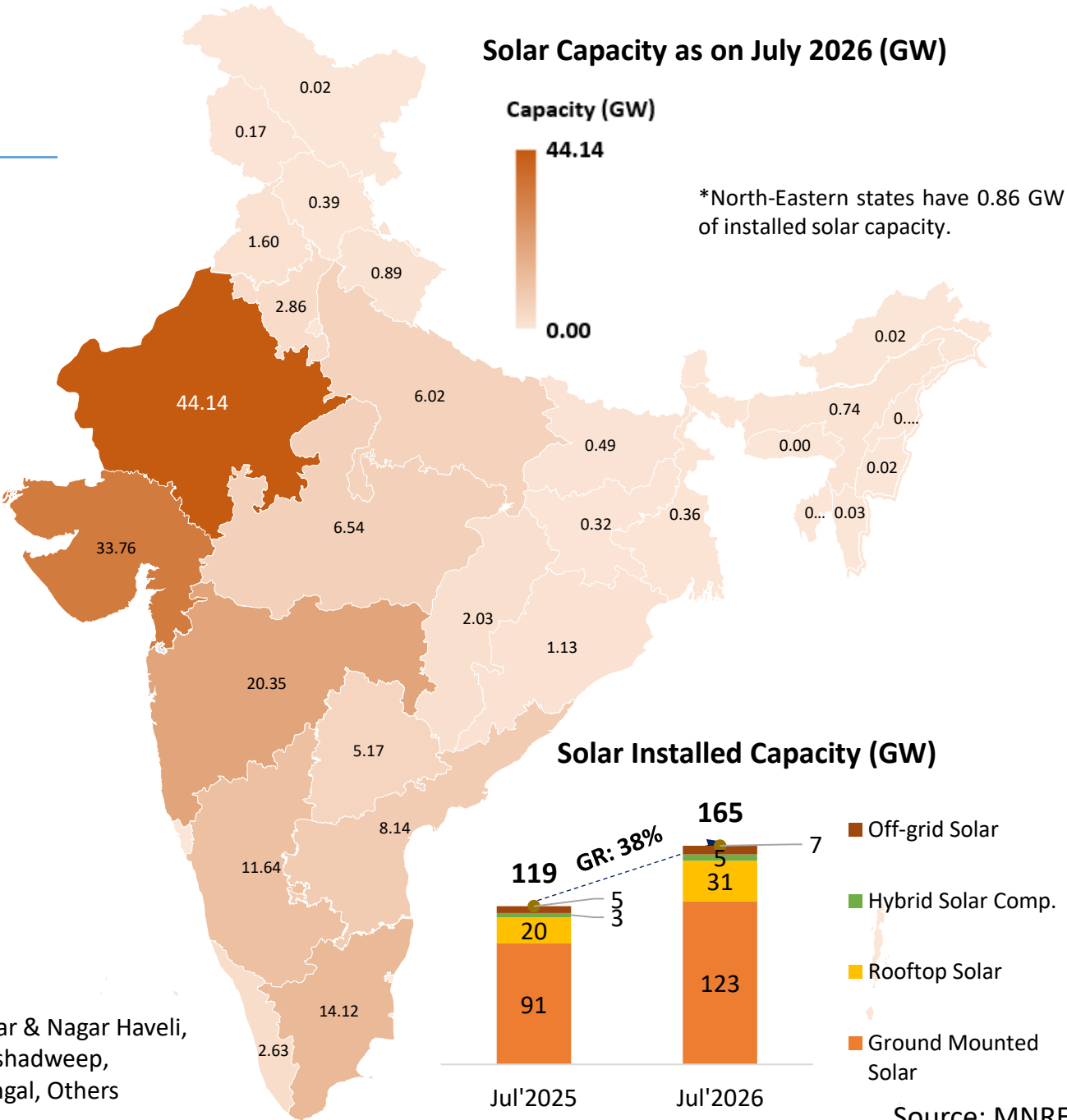
- A total of 135 GW of generation capacity has been added in RE (Hydro, solar, wind, and other RES) over the past 5 years (2022-23 to 2026-27*), whereas the net coal capacity addition during the same period was 22 GW, mostly in the central sector.

State-wise Solar Capacity

as on July 2026

State-wise Installed Capacity of Solar Power (GW)					
States	Ground Mounted	Rooftop	Solar Component in Hybrid	Off Grid	Total Solar Power
Rajasthan	38.66	2.32	2.28	0.87	44.14
Gujarat	24.51	7.52	1.53	0.20	33.76
Maharashtra	12.17	5.98	0.00	2.20	20.35
Tamil Nadu	12.41	1.64	0.00	0.08	14.12
Karnataka	10.13	0.93	0.36	0.21	11.64
Andhra Pradesh	6.56	0.89	0.60	0.09	8.14
Madhya Pradesh	5.31	1.06	0.00	0.18	6.54
Uttar Pradesh	3.16	2.49	0.00	0.38	6.02
Telangana	4.36	0.80	0.00	0.01	5.17
Haryana	0.27	1.37	0.00	1.21	2.86
Kerala	0.34	2.26	0.00	0.02	2.63
Chhattisgarh	1.40	0.24	0.00	0.39	2.03
Punjab	0.89	0.60	0.00	0.12	1.60
Odisha	0.72	0.33	0.00	0.08	1.13
Others	1.68	2.33	0.00	0.46	4.46
All India	122.57	30.74	4.77	6.51	164.59

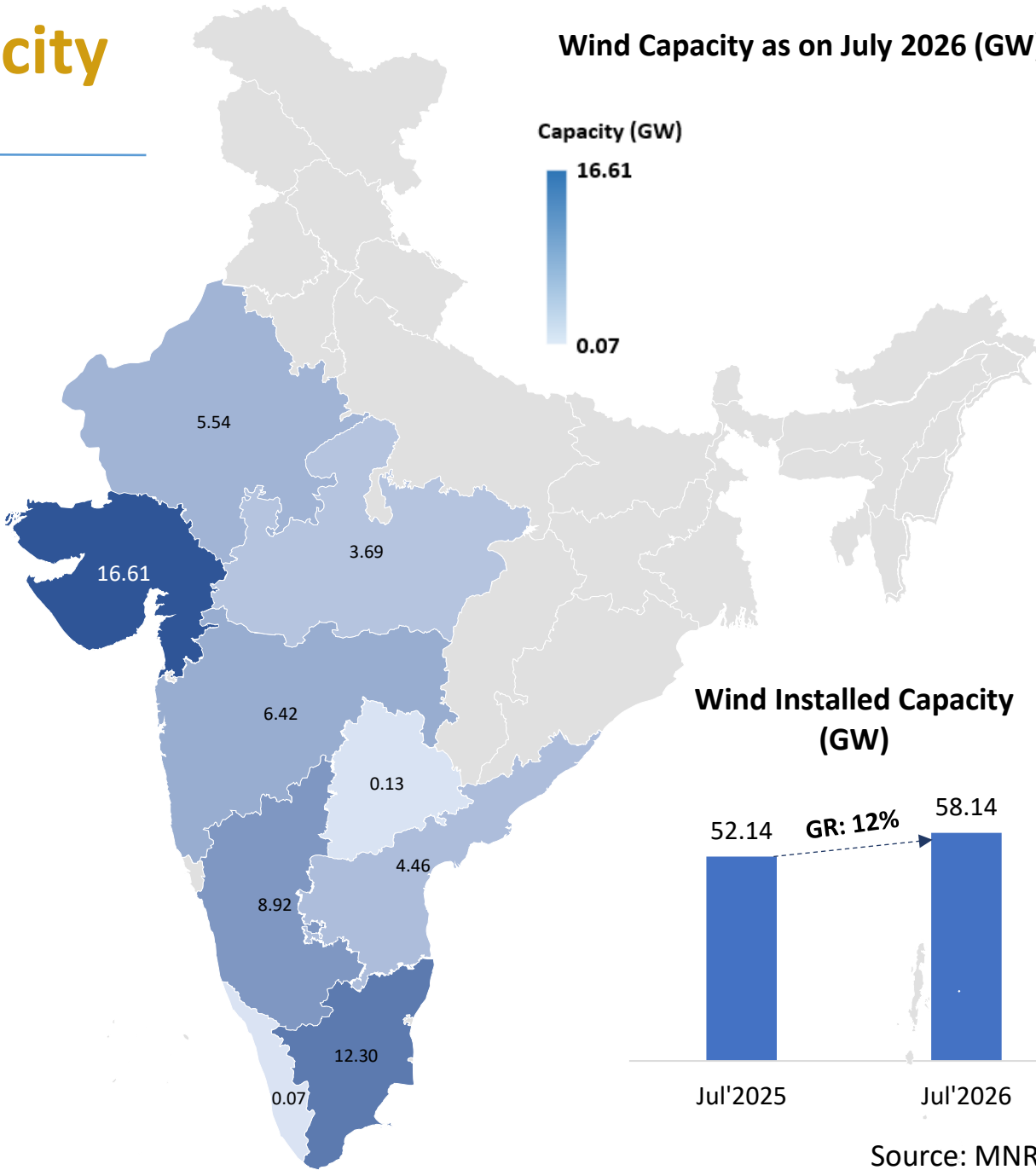
Others include- Andaman & Nicobar, Arunachal Pradesh, Assam, Bihar, Chandigarh, Dadar & Nagar Haveli, Daman & Diu, Delhi, Goa, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Ladakh, Lakshadweep, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Puducherry, Sikkim, Tripura, West Bengal, Others



State-wise Wind Onshore Capacity

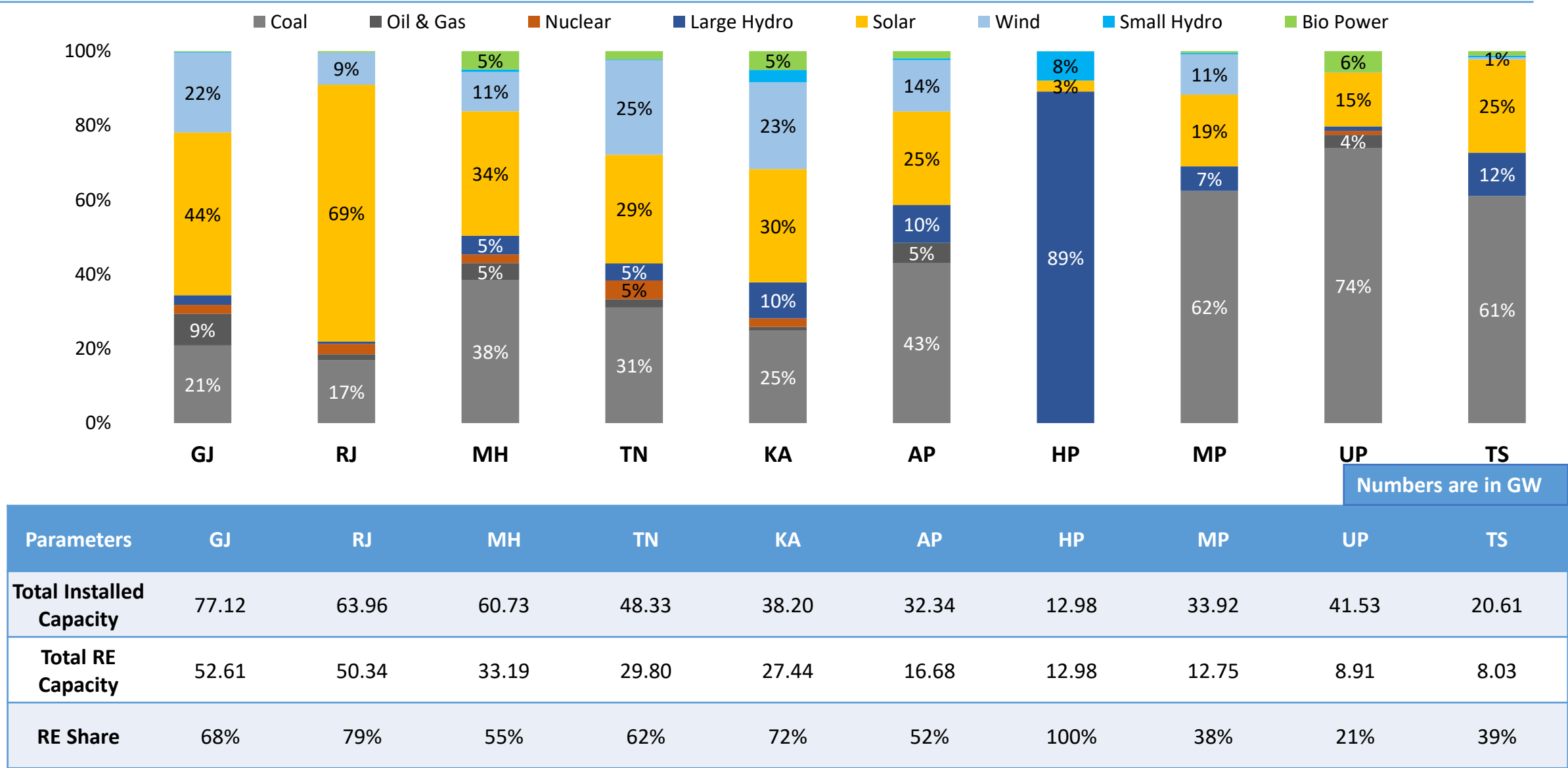
as on July 2026

State-wise installed capacity of Wind (Onshore) Power	
States	Installed Capacity (GW)
Gujarat	16.61
Tamil Nadu	12.30
Karnataka	8.92
Maharashtra	6.42
Rajasthan	5.54
Andhra Pradesh	4.46
Madhya Pradesh	3.69
Telangana	0.13
Kerala	0.07
India Total	58.14



Top 10 High RE* States and Their Capacity Mix

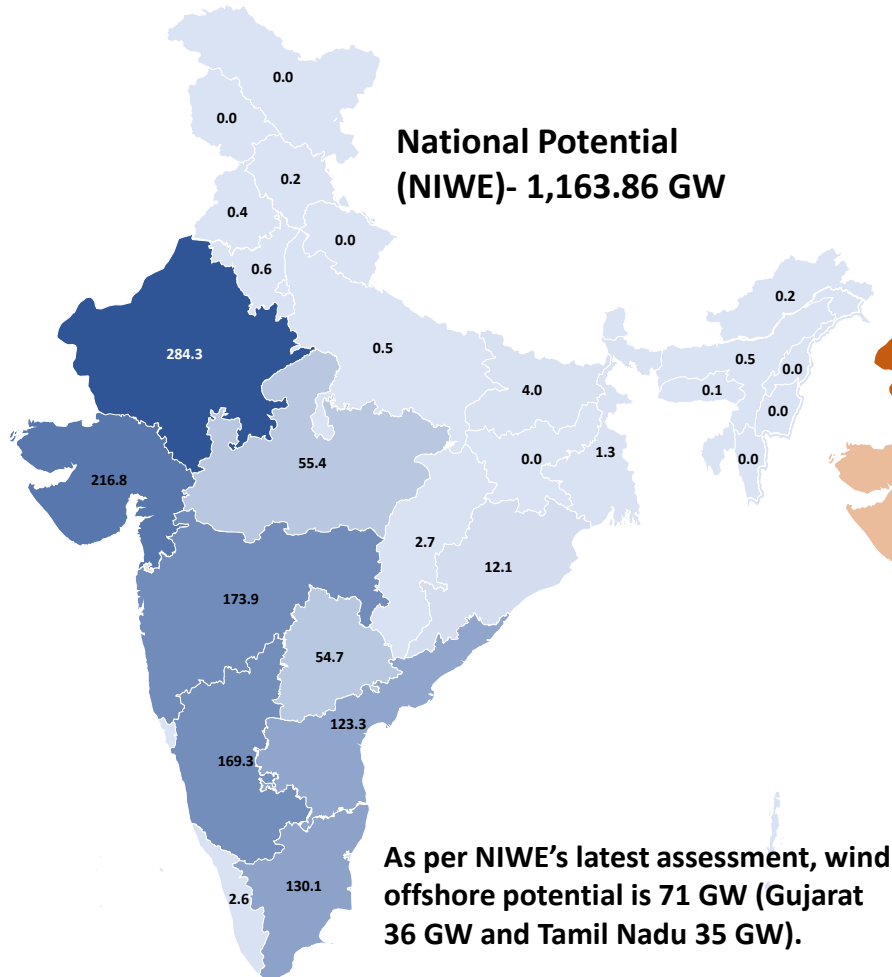
as on July 2026



Renewable Energy (RE) Potential

Wind Onshore (at 150m agl) and Offshore Potential

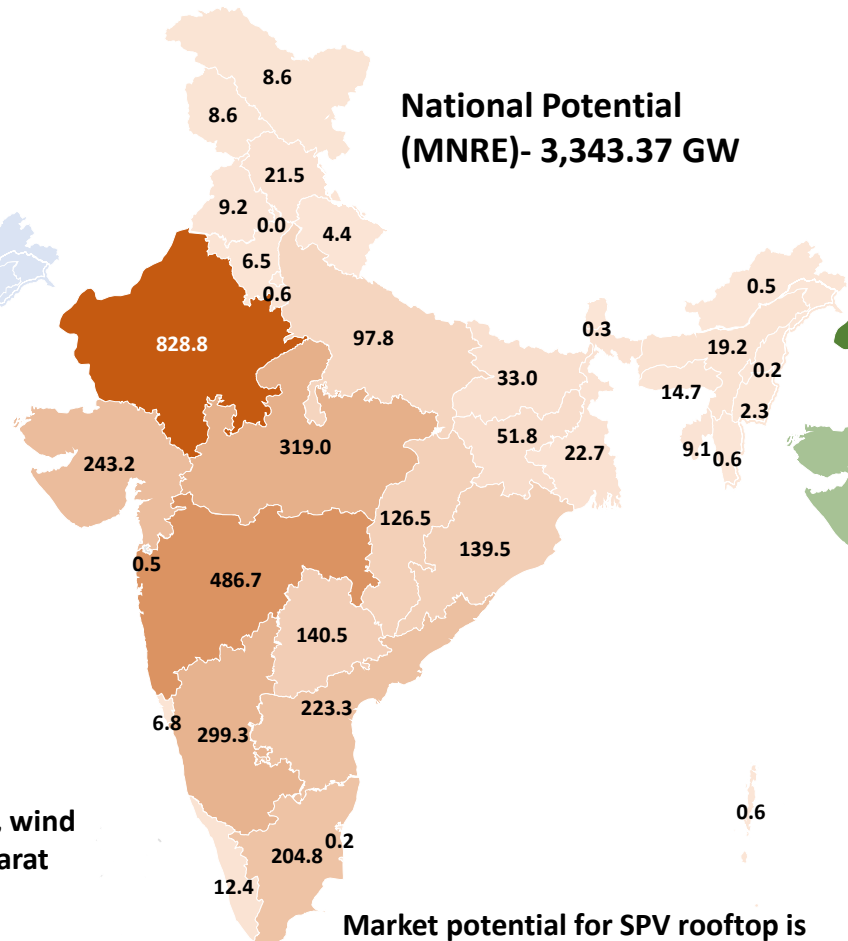
Wind Potential (GW)
0.00 284.25



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)

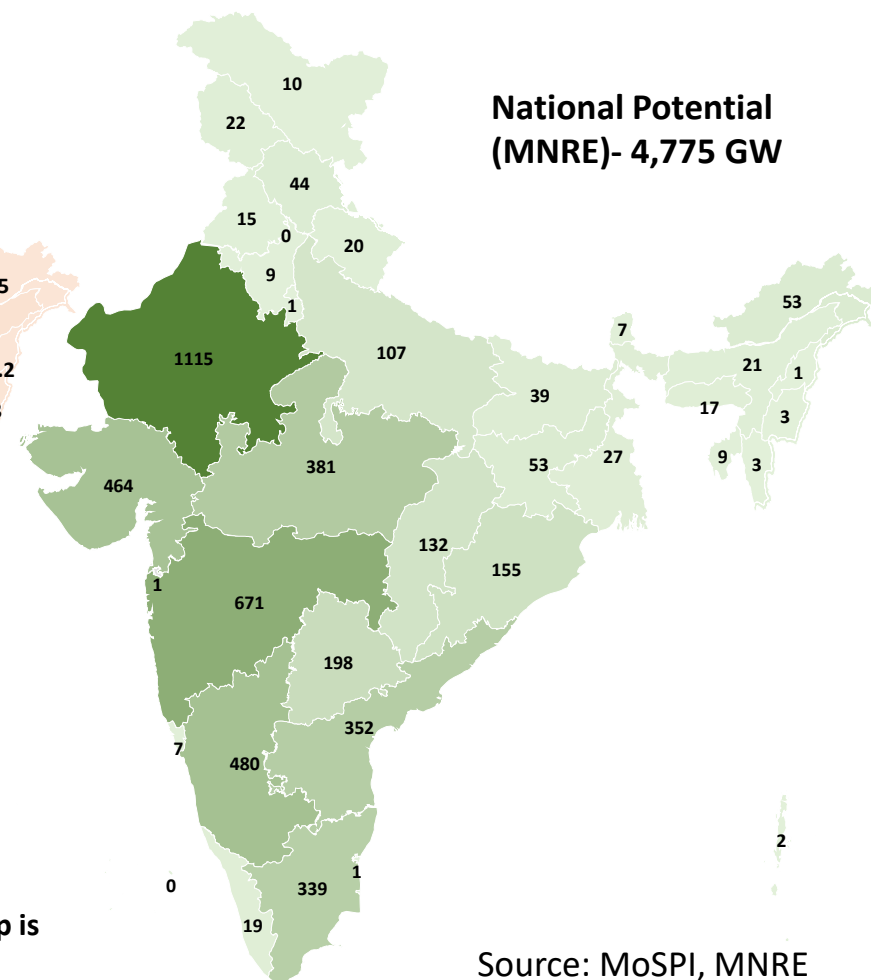
Solar Potential (GW)
0.0 828.8



Market potential for SPV rooftop is 124 GW.

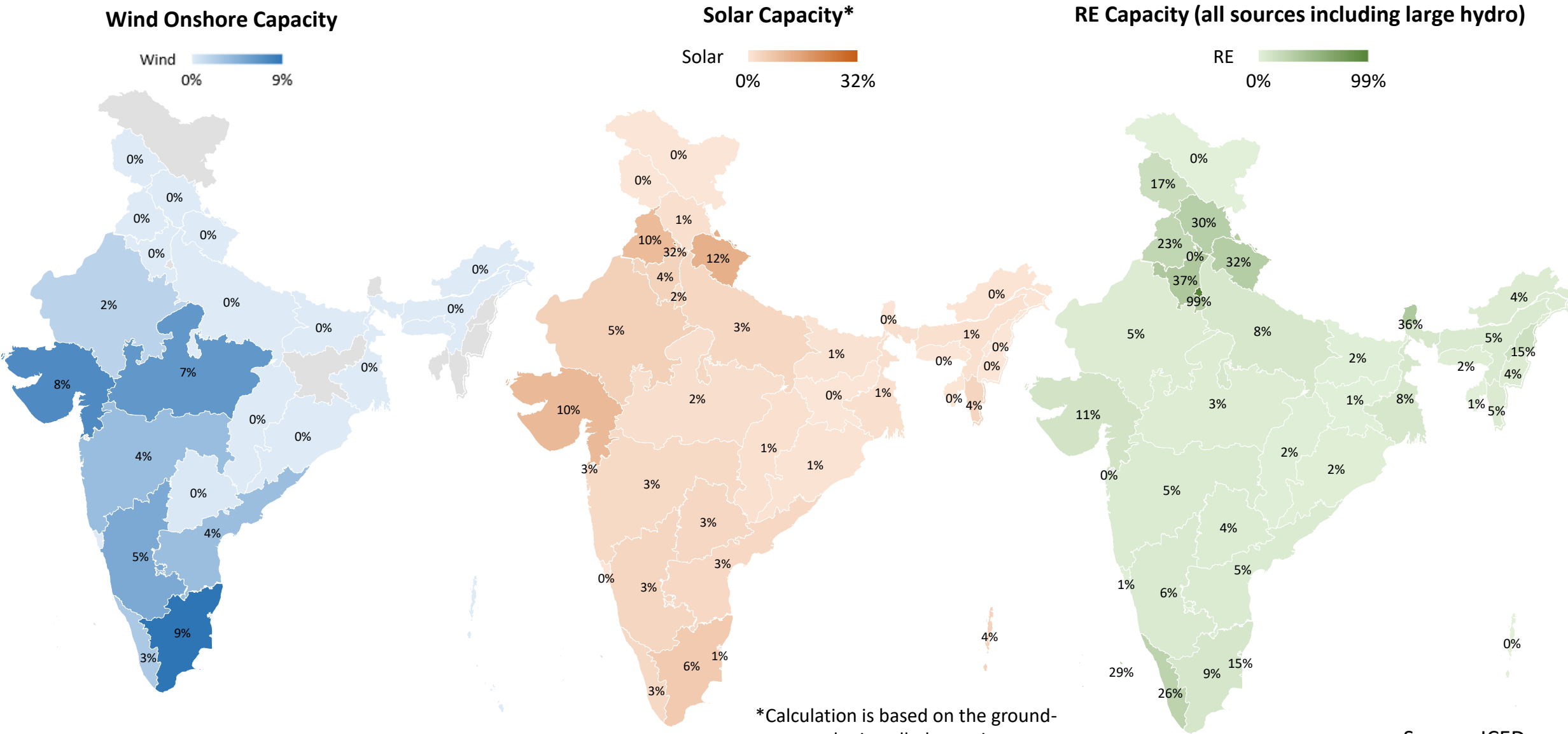
Renewable Energy Potential (all sources incl. large Hydro)

Potential (GW)
0 1115



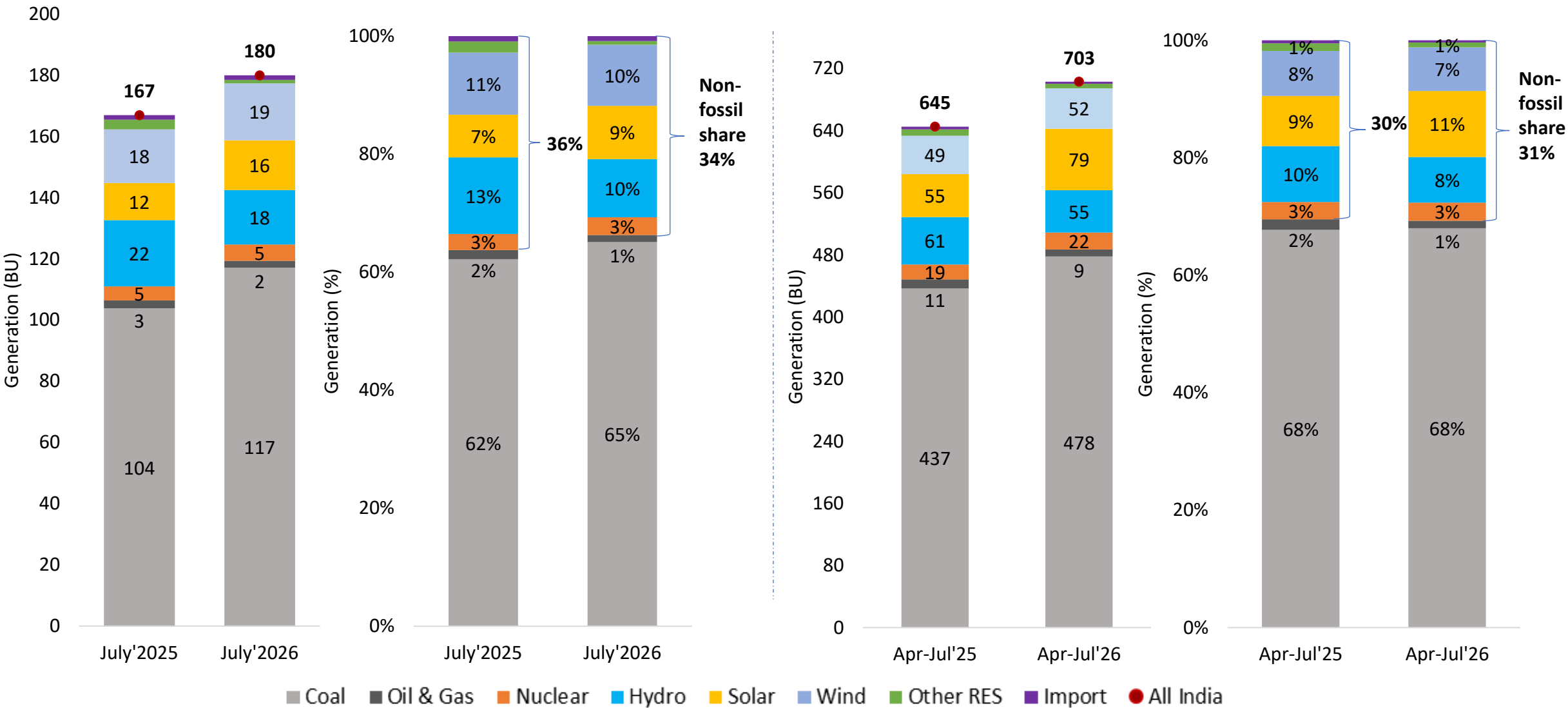
Source: MoSPI, MNRE

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

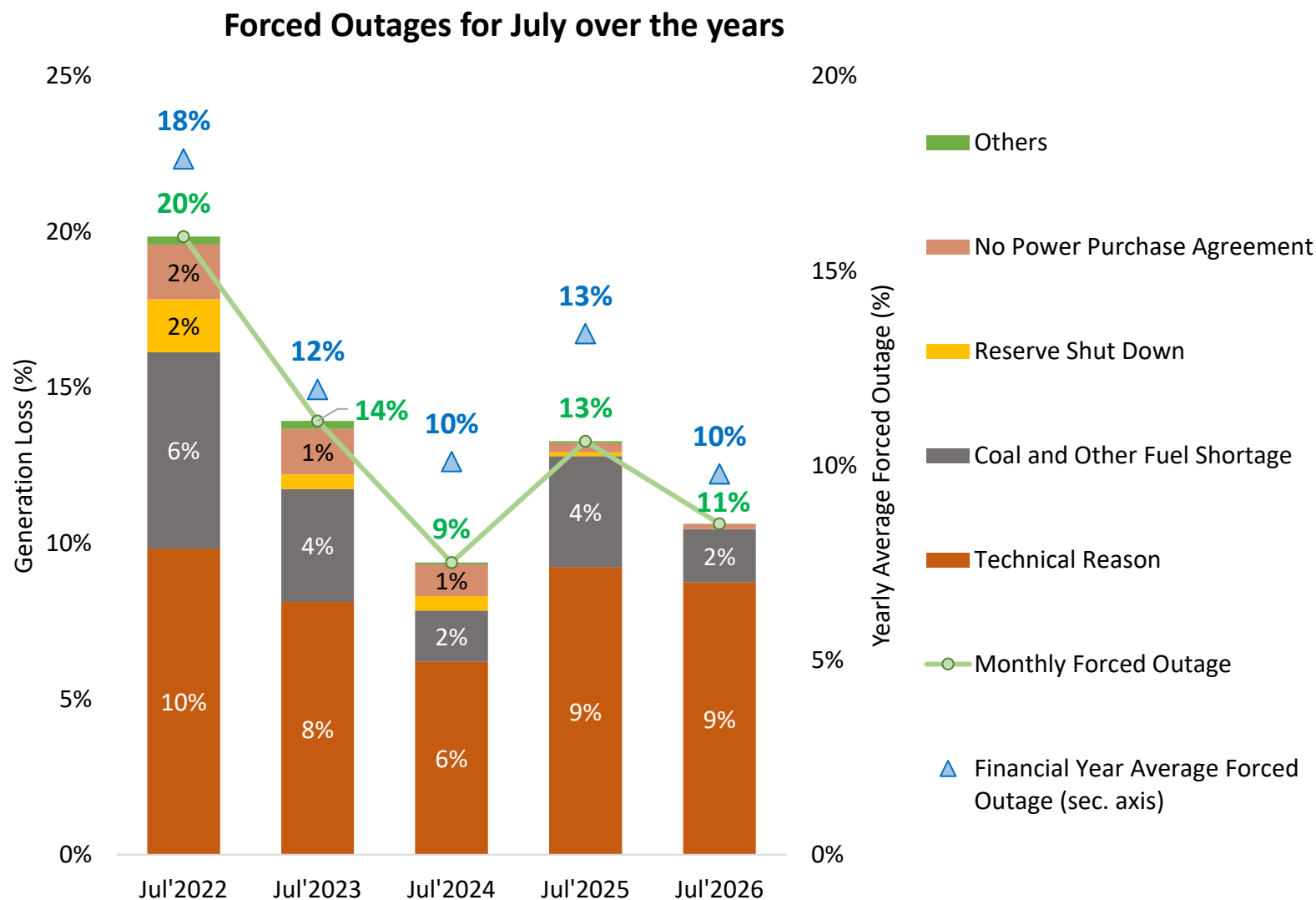


India's Electricity Generation Mix

Source-wise Generation Mix



Thermal Generation Loss and Reasons for Forced Outages



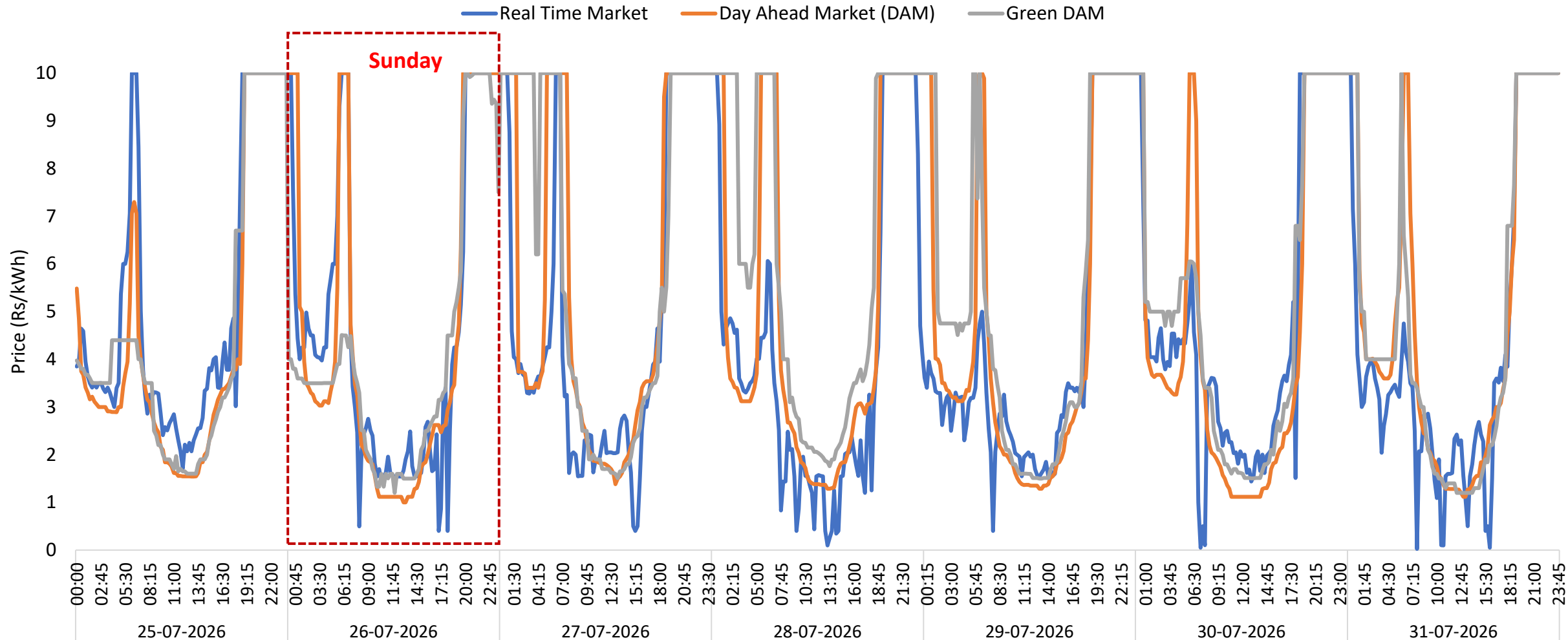
Year/ Month		Average Forced Outage Share
Yearly	FY 2024-25	10%
	FY 2025-26	13%
	FY 2026-27 (up to Jul'2026)	10%
Monthly	Jul'2024	9%
	Jul'2025	13%
	Jul'2026	11%

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

Source: ICED

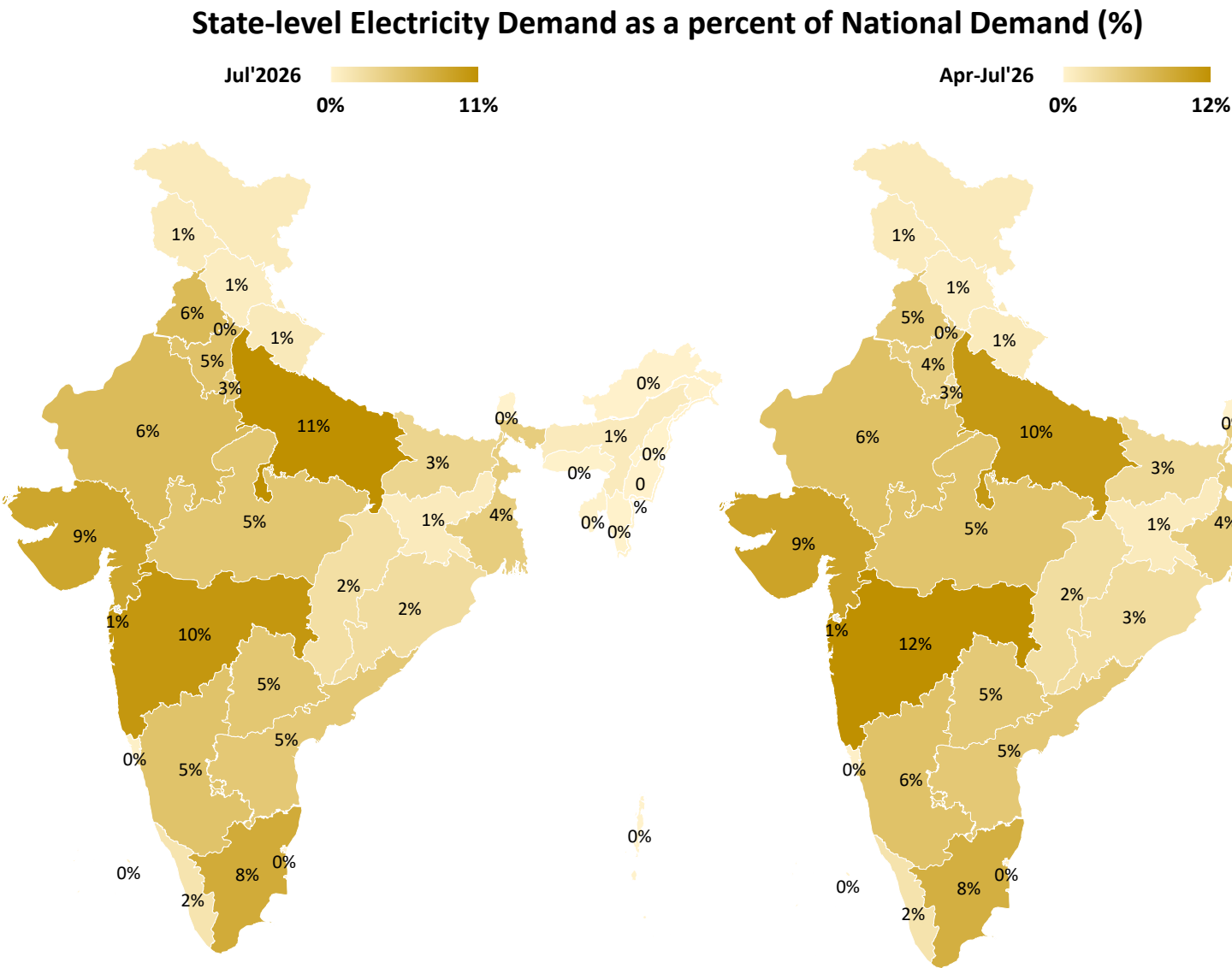
Indian Electricity Exchange (IEX) Market Snapshot

Market Clearing Prices of last 7 days of July 2026



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

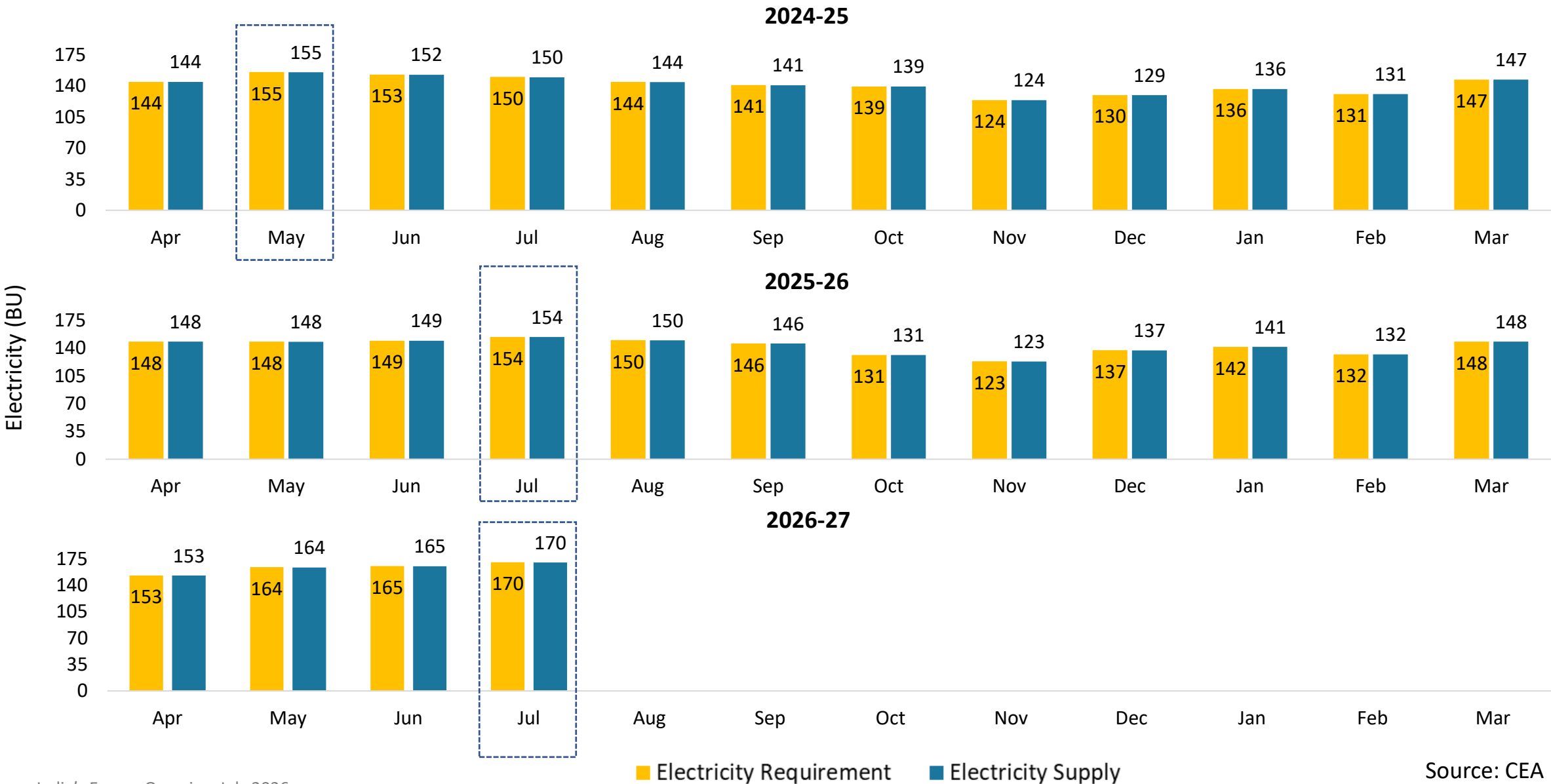
National and State level Electricity Demand



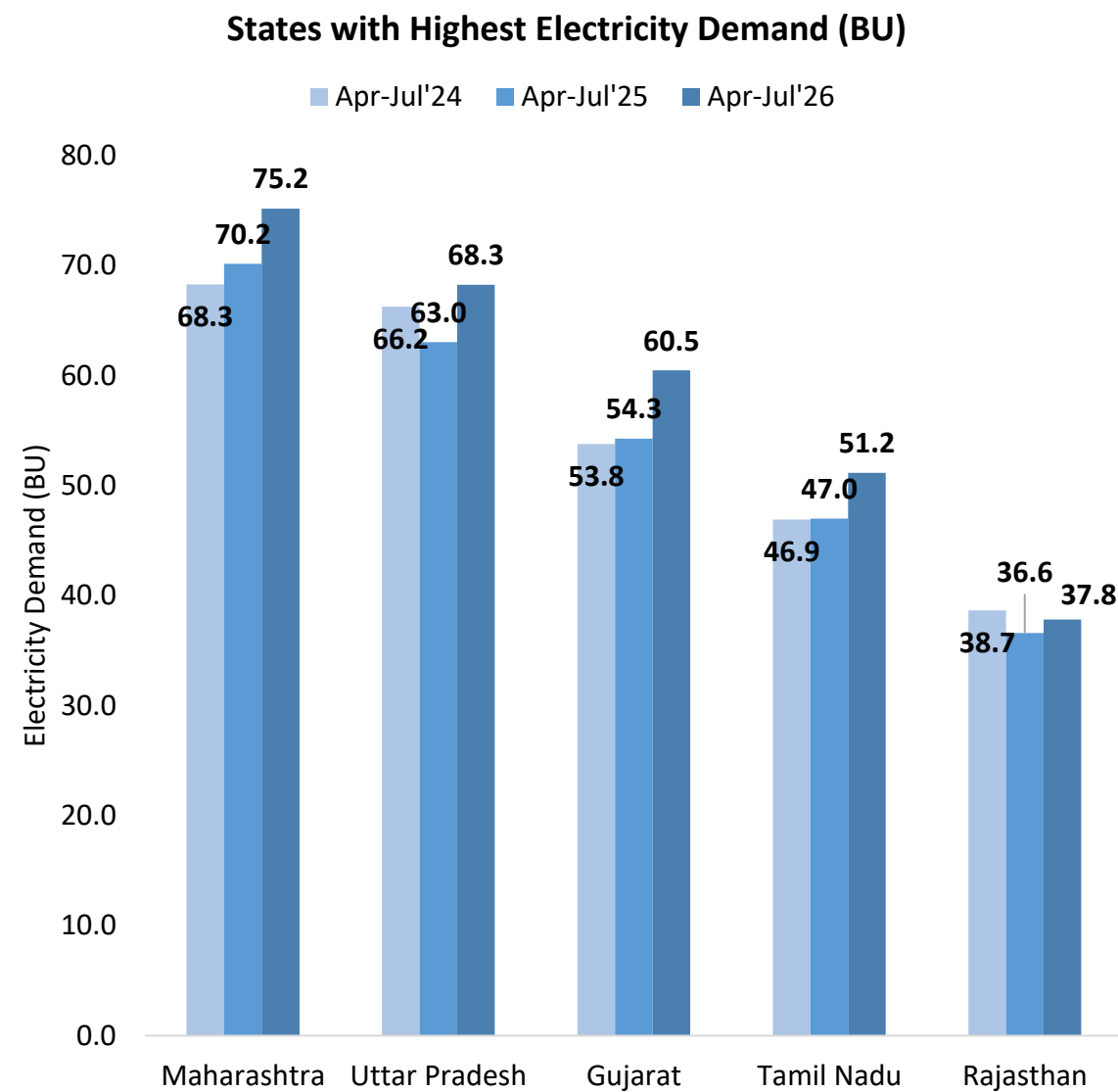
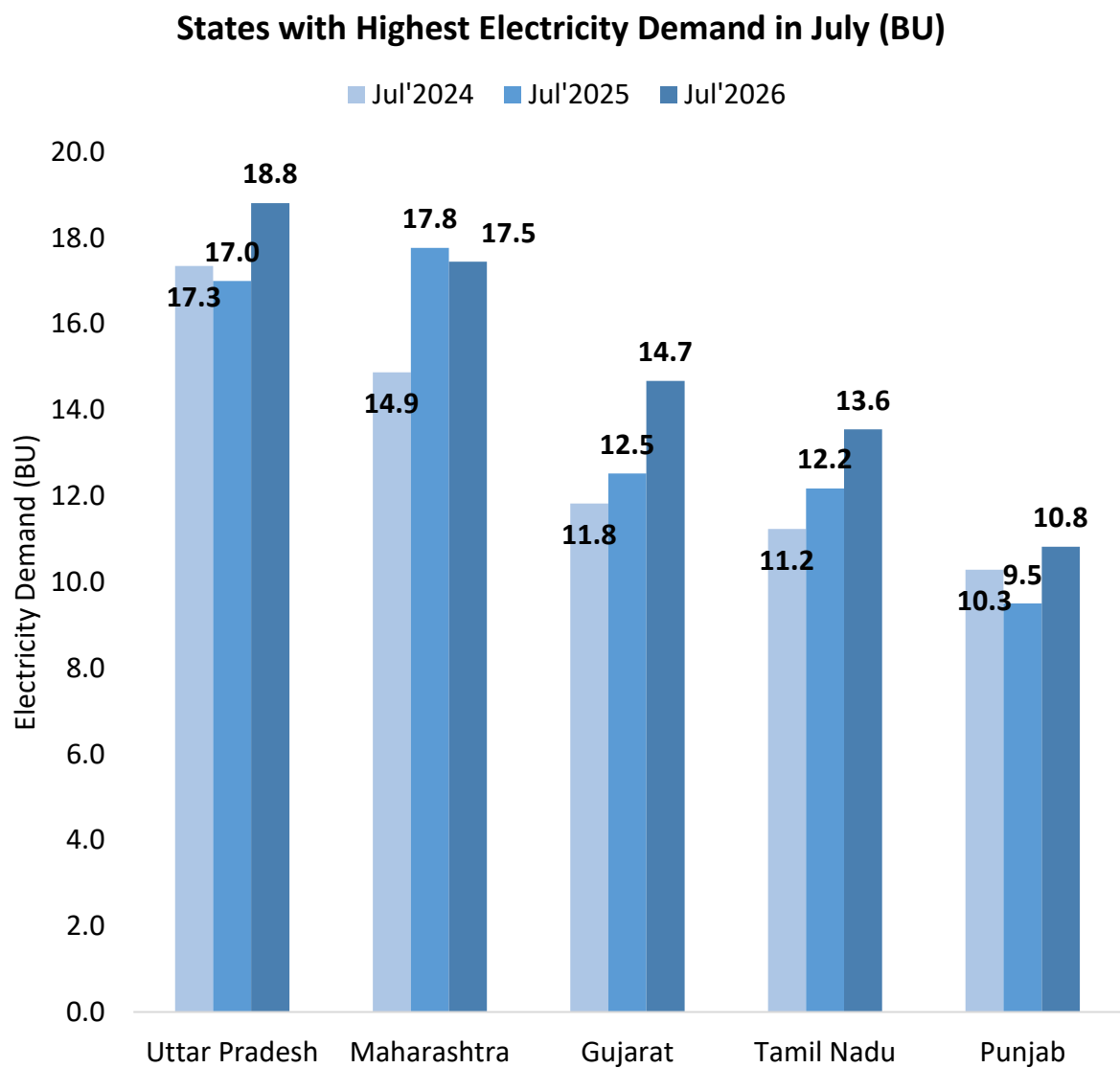
Month	Electricity Demand (BU)	Electricity Supply (BU)	Gap (BU) (+/-)
Jul'2024	150	150	0.4
Jul'2025	154	154	0.0
Jul'2026	170	170	0.2

Apr-Jul	Electricity Demand (BU)	Electricity Supply (BU)	Gap (BU) (+/-)
FY 2023-24	602	601	1.0
FY 2024-25	599	599	0.2
FY 2025-26	652	652	0.9

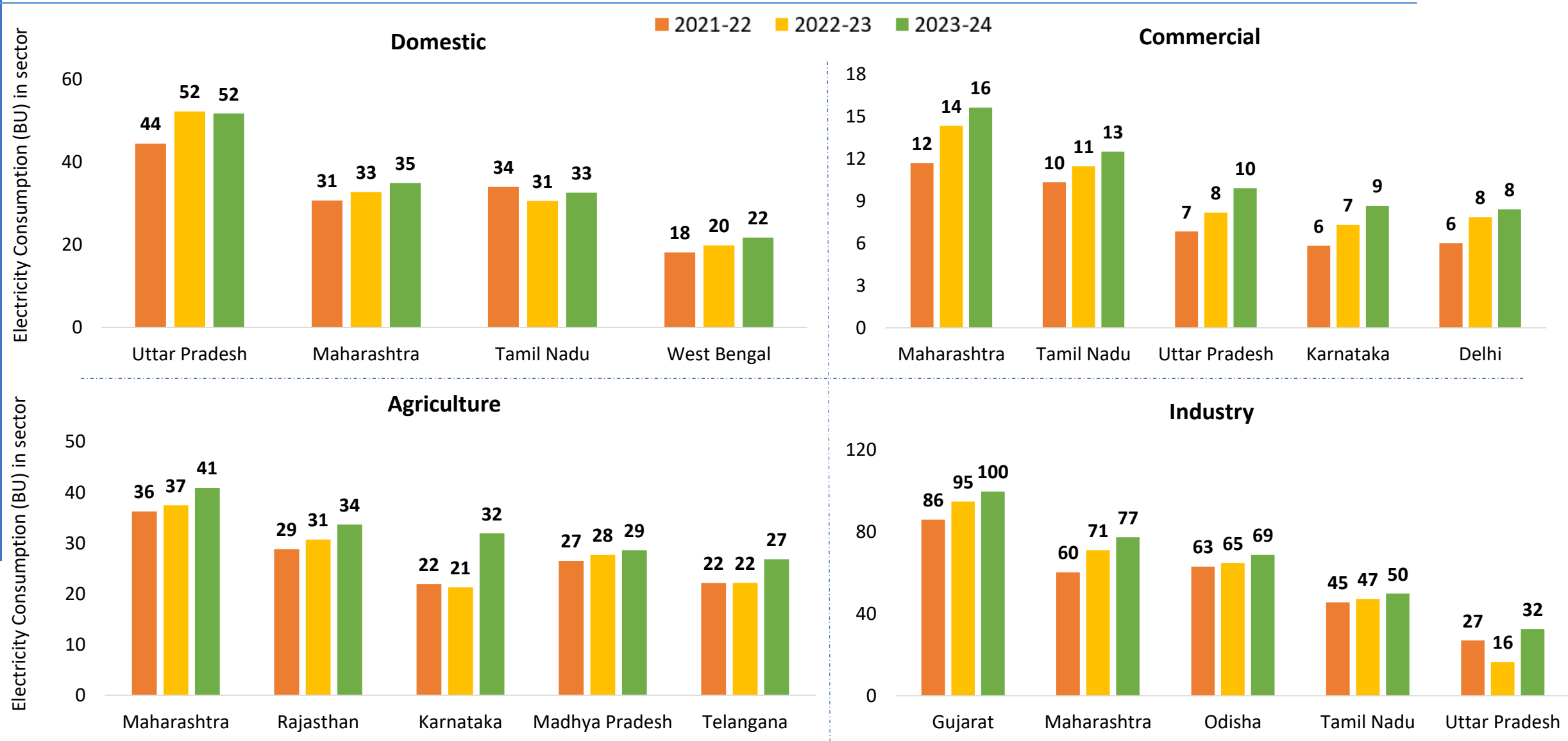
India's Monthly Electricity Requirement and Supply



Monthly Electricity Demand of the Top 5 States



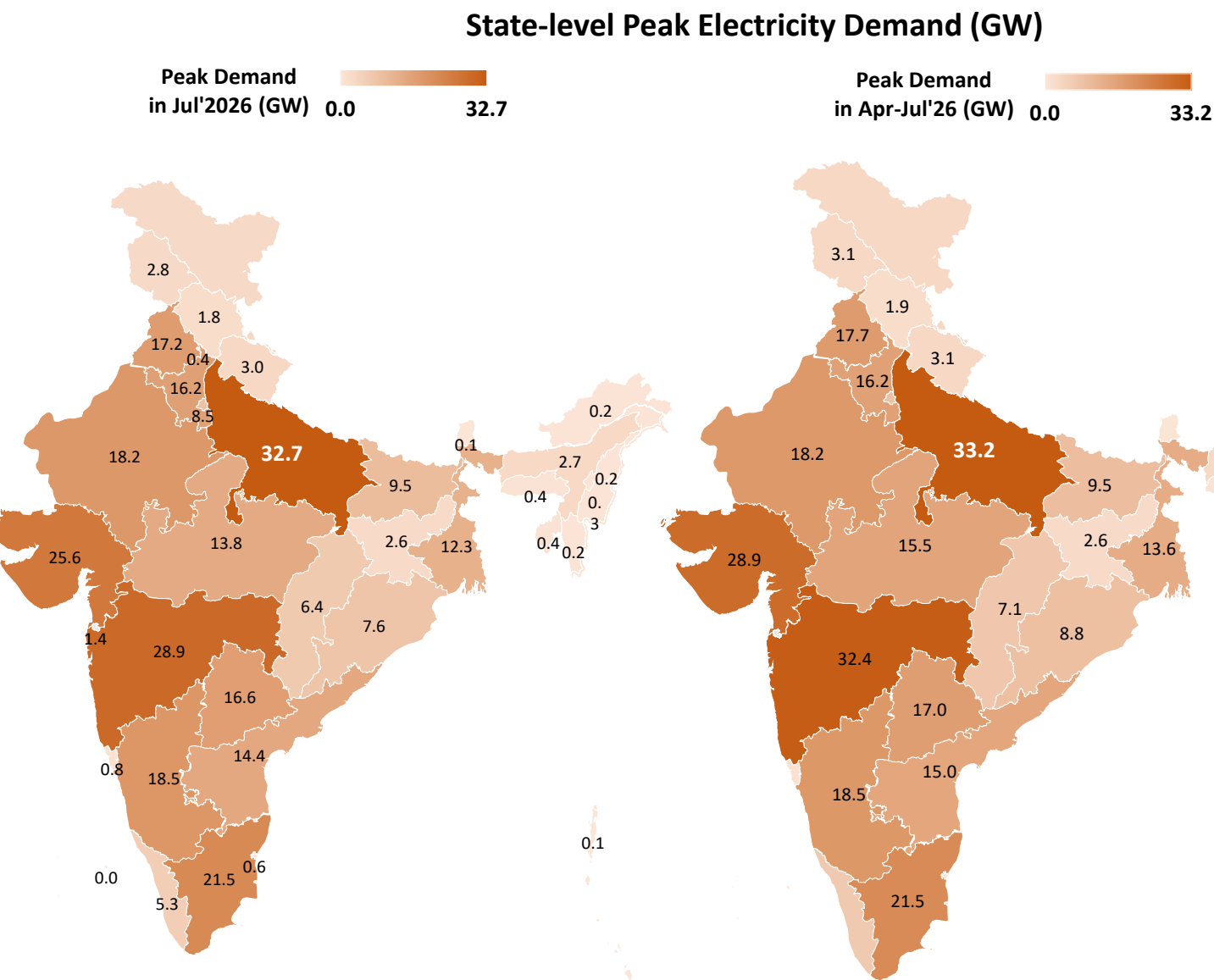
Electricity Consumer-category wise Top 5 States



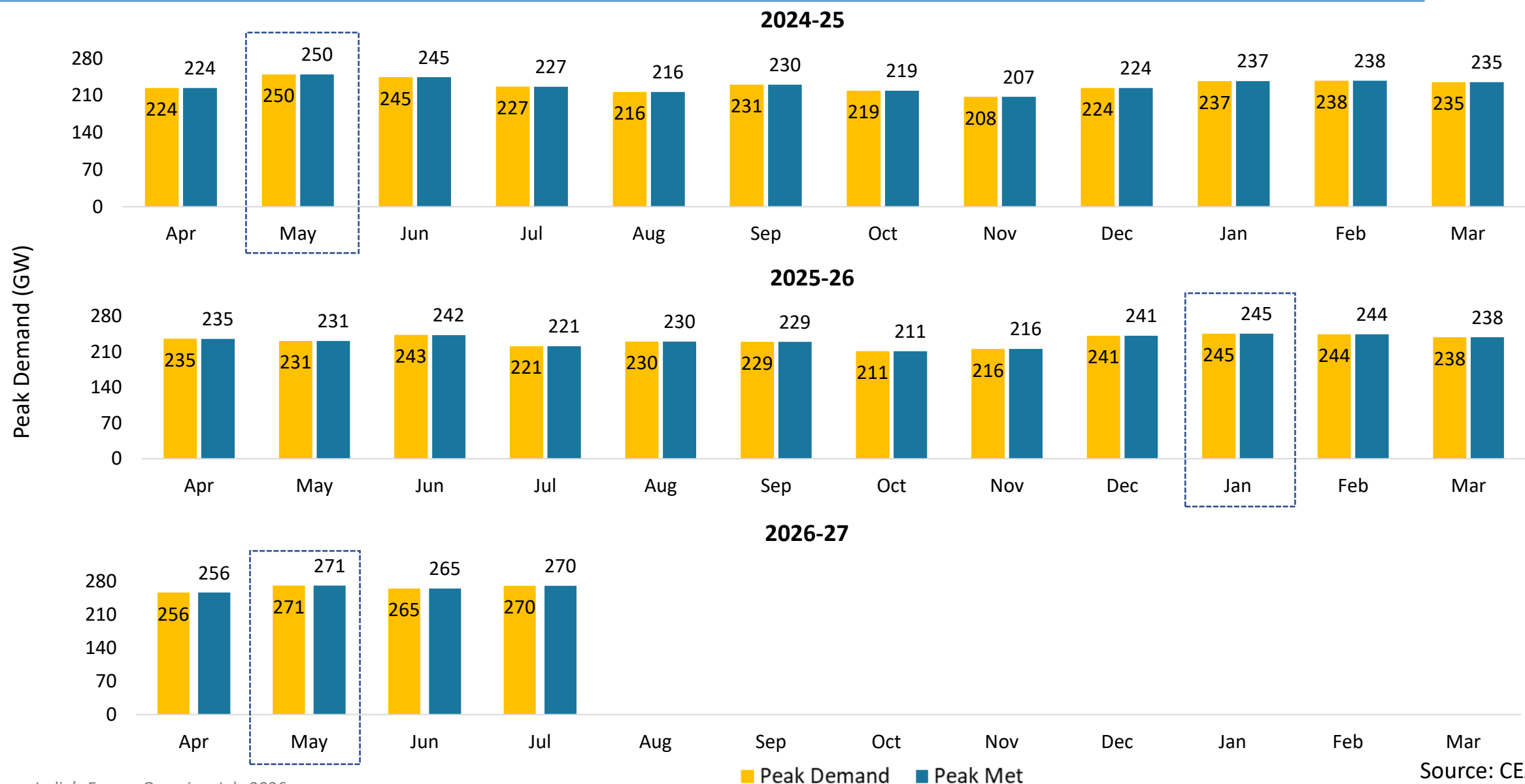
NOTE: Top 5 States under consumer-categories are selected on the basis of 2023-24

Source: CEA

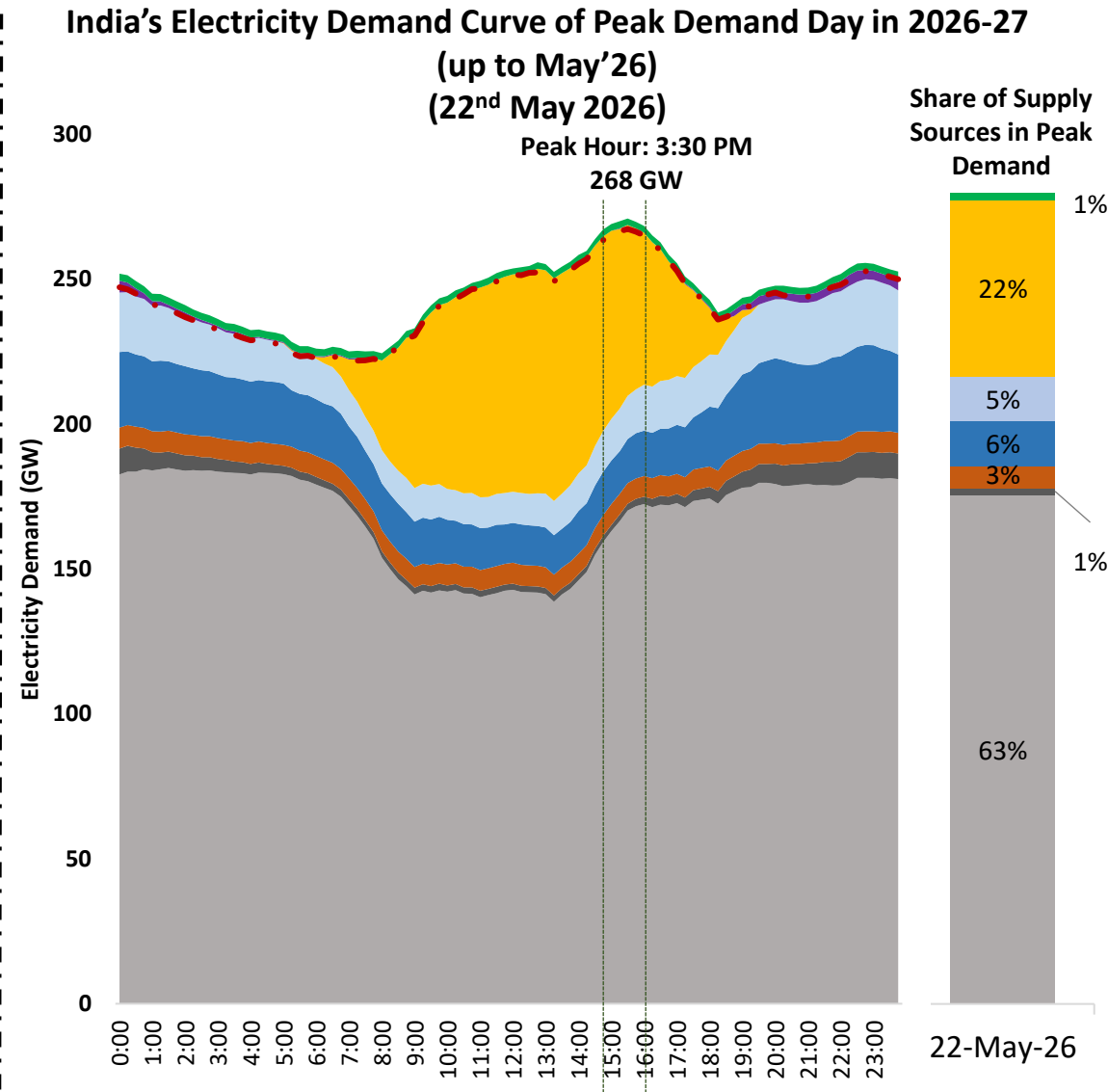
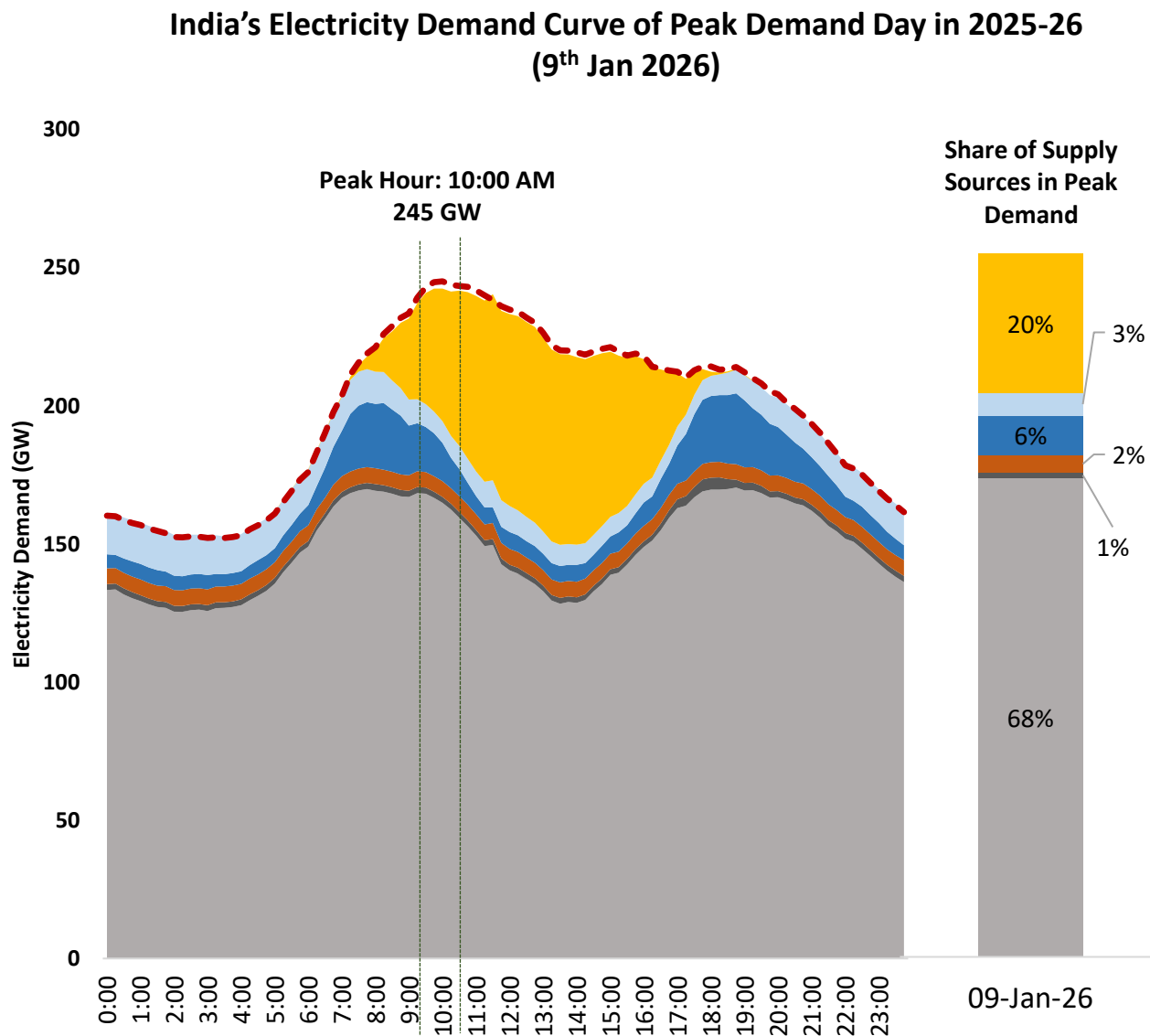
National and State level Peak Electricity Demand



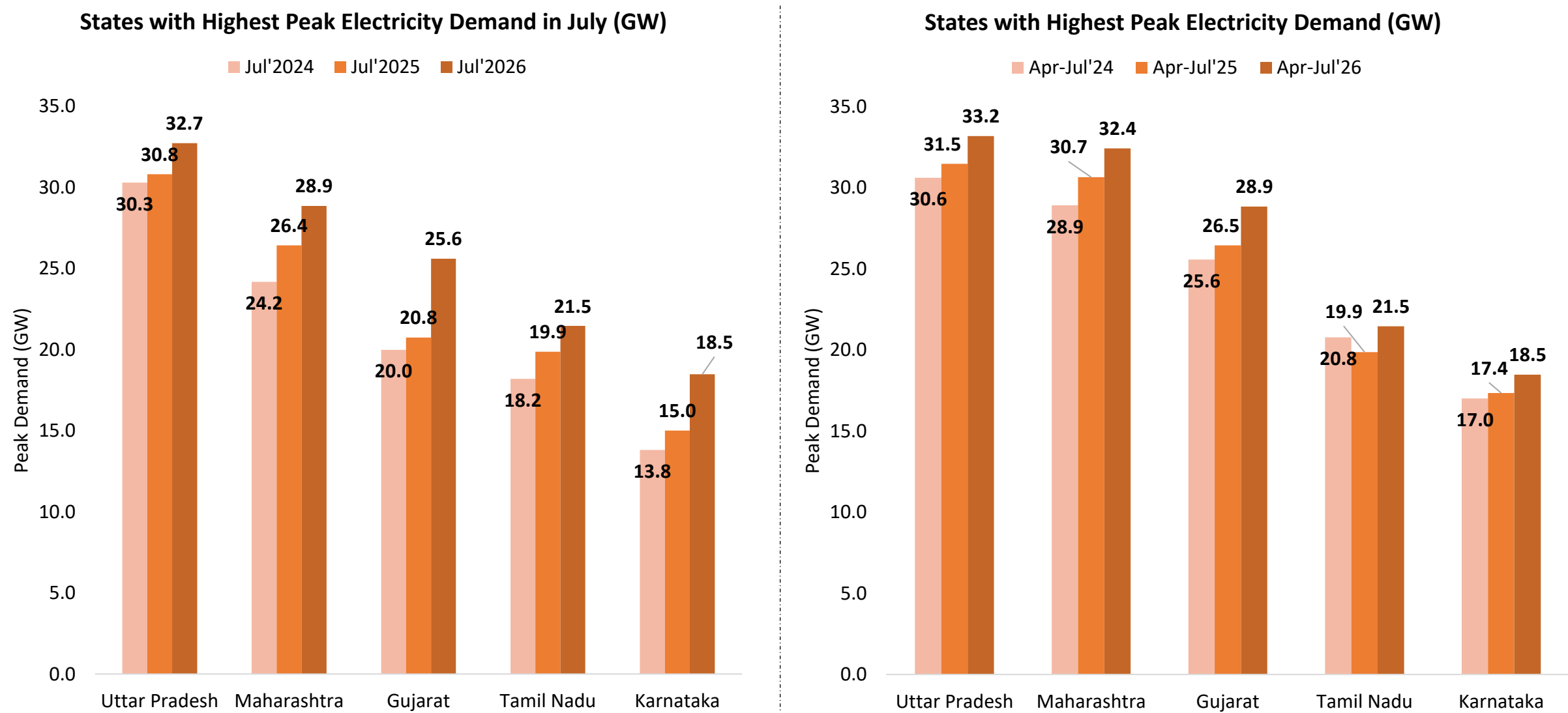
India's Monthly Peak Electricity Demand and Supply



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

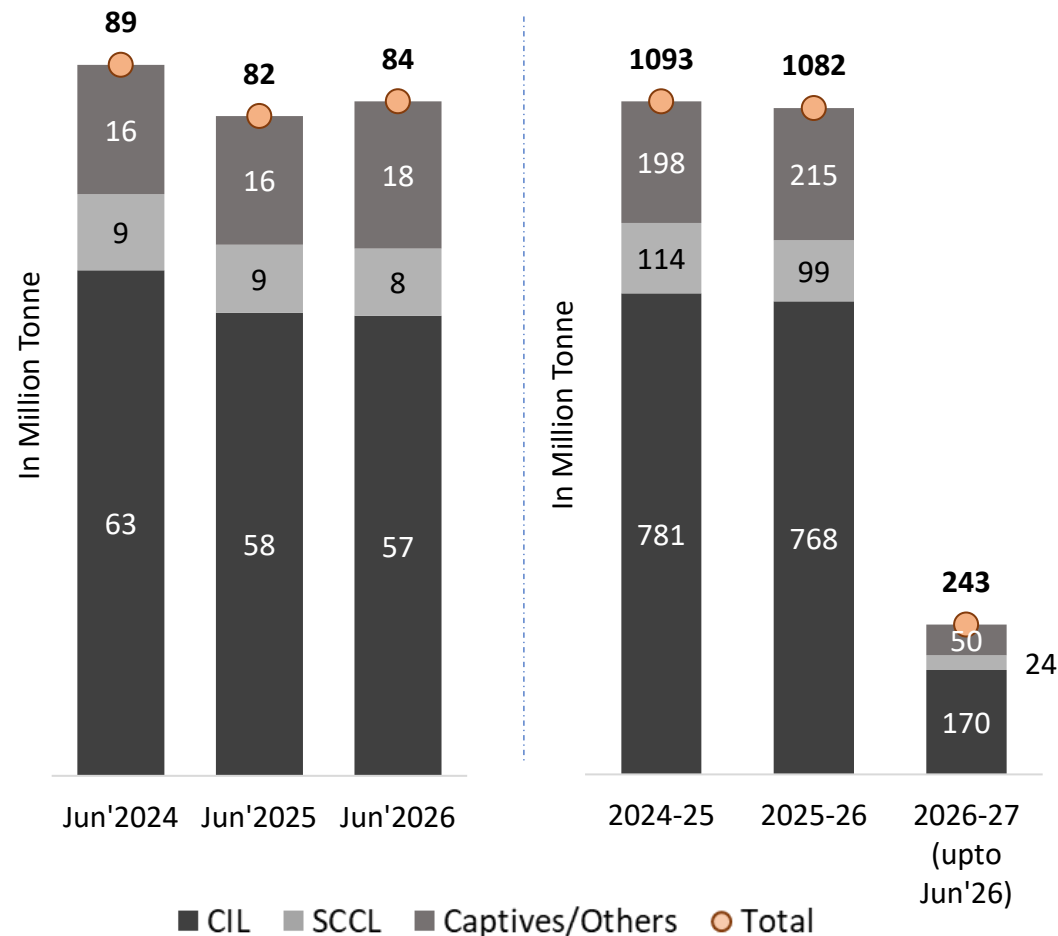


Monthly Peak Electricity Demand of the Top 5 States

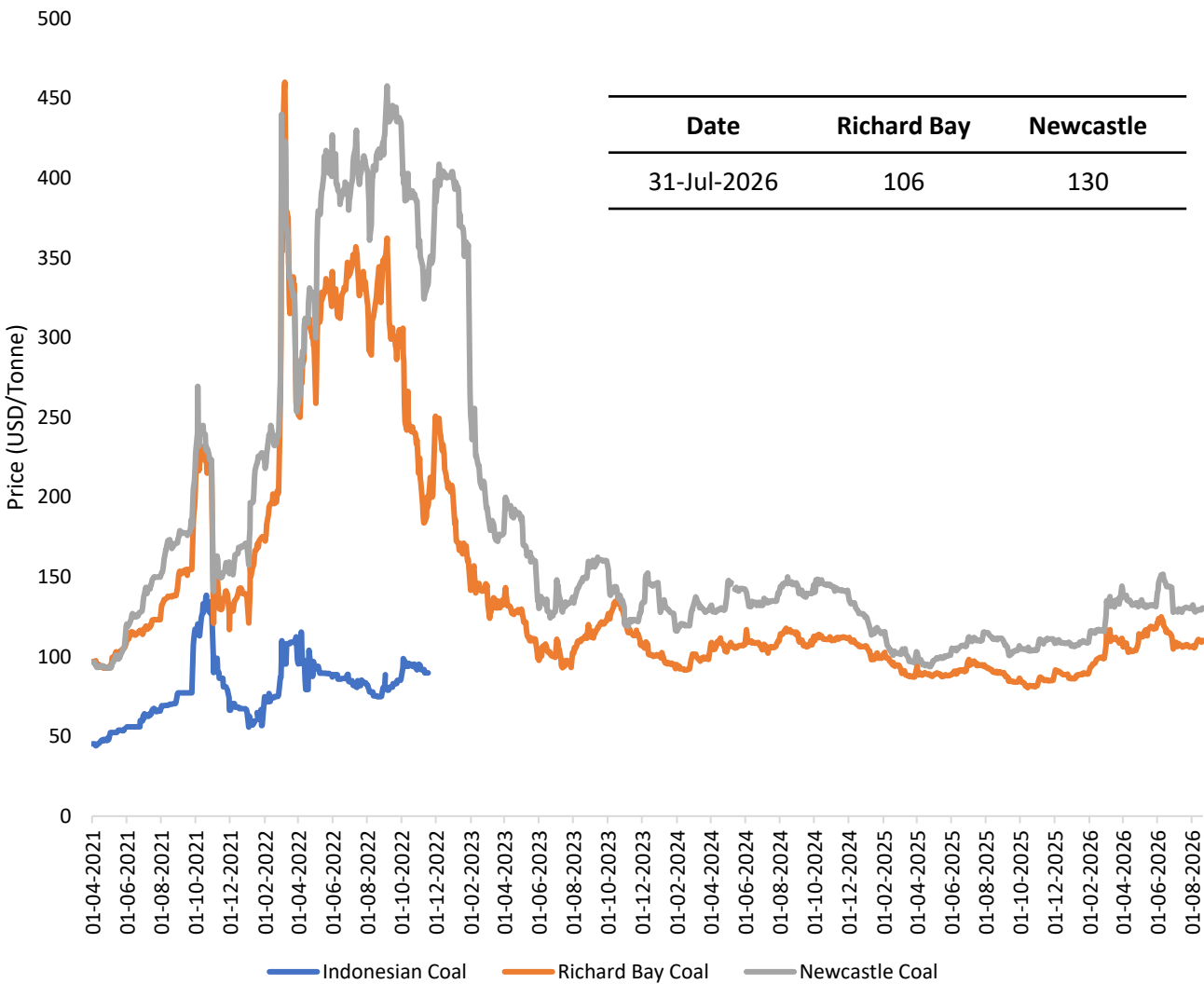


Monthly Coal Statistics

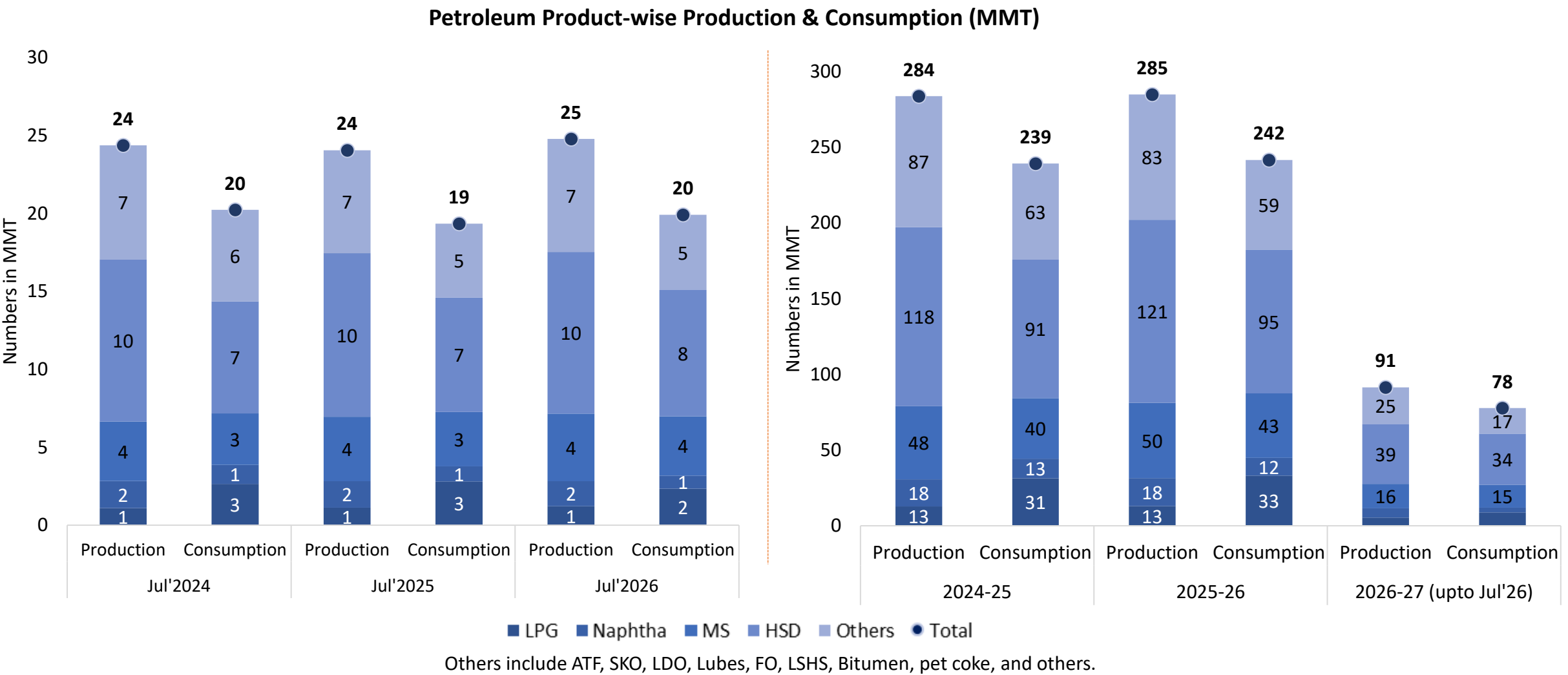
Monthly/ Annual Coal (incl. Lignite) Production
(in Million Tonnes)



International Coal Prices



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)

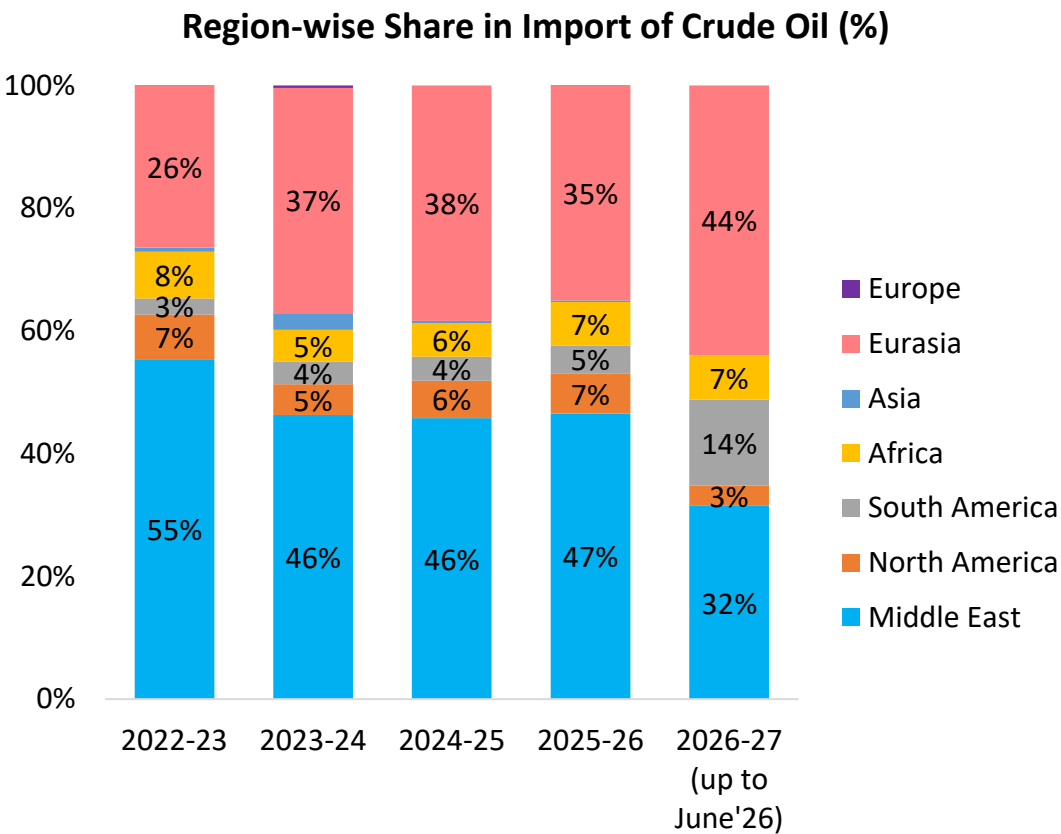
Import/Export of Crude Oil and Petroleum Products ('000 Tonnes)							
Petroleum Products	Import/ Export	Monthly			Yearly		
		Jul'24	Jul'25	Jul'26	2024-25	2025-26	2026-27 (Apr-Jul'26)
Crude Oil	Import	19403	18889	21405	243225	245769	81886
	Export	0	0	0	0	0	0
	Net Import	19403	18889	21405	243225	245769	81886
LPG	Import	1822	1900	870	20667	21268	3703
	Export	45	47	48	551	566	157
	Net Import	1777	1854	822	20116	20702	3546
Diesel	Import	1	1	3	42	38	8
	Export	2082	2242	2438	28027	27318	6888
	Net Import	-2080	-2242	-2435	-27985	-27280	-6879
Petrol	Import	54	0	0	235	0	0
	Export	1065	1197	1283	15830	16666	4053
	Net Import	-1011	-1197	-1283	-15596	-16666	-4053
Others	Import	3059	2362	1660	29960	24887	5319
	Export	1933	1546	1681	20667	16877	5444
	Net Import	1127	817	-21	9293	8010	-125

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

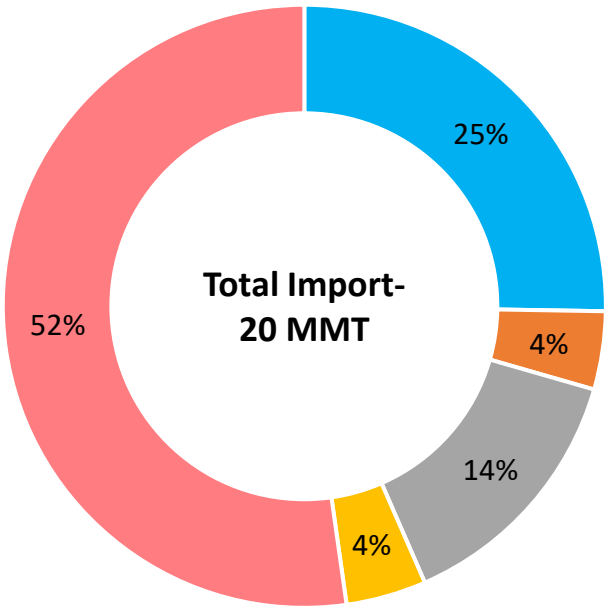
NOTE: The data is available latest up to July 2026.

Source: PPAC

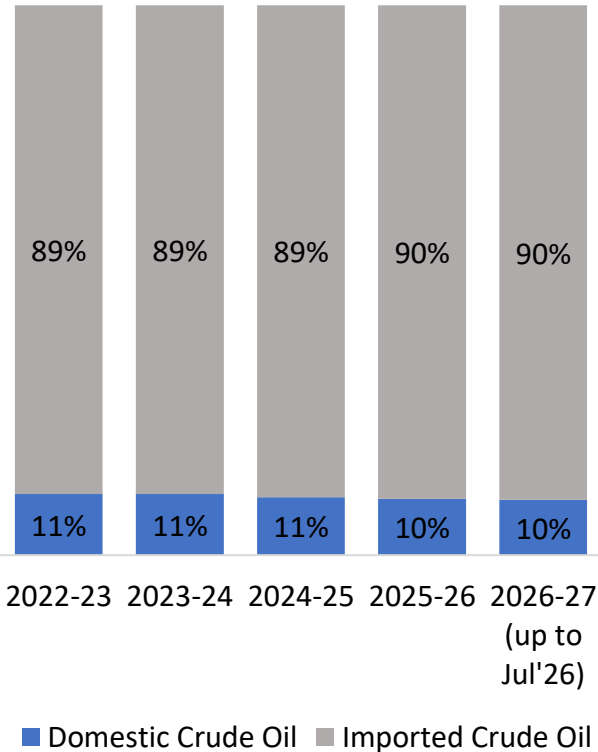
Oil Market Scenario (3/3)



Regional share of Imported Crude oil in June 2026



Domestic and Imported Crude Oil share in India (%)

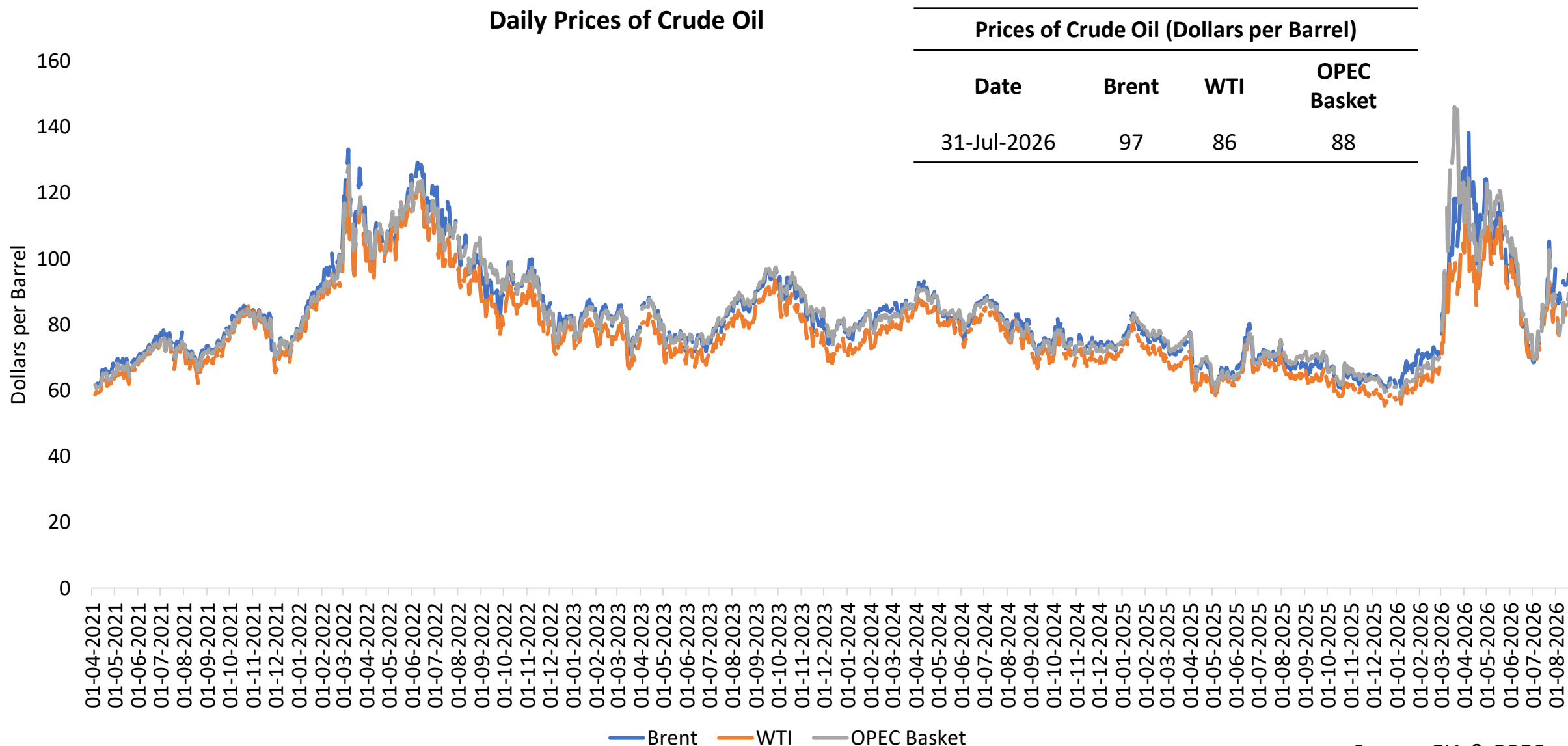


Total Import of Crude Oil (MMT)			
Total Import	2024-25	2025-26	2026-27 (up to Jul'26)
Crude Oil	243	246	82

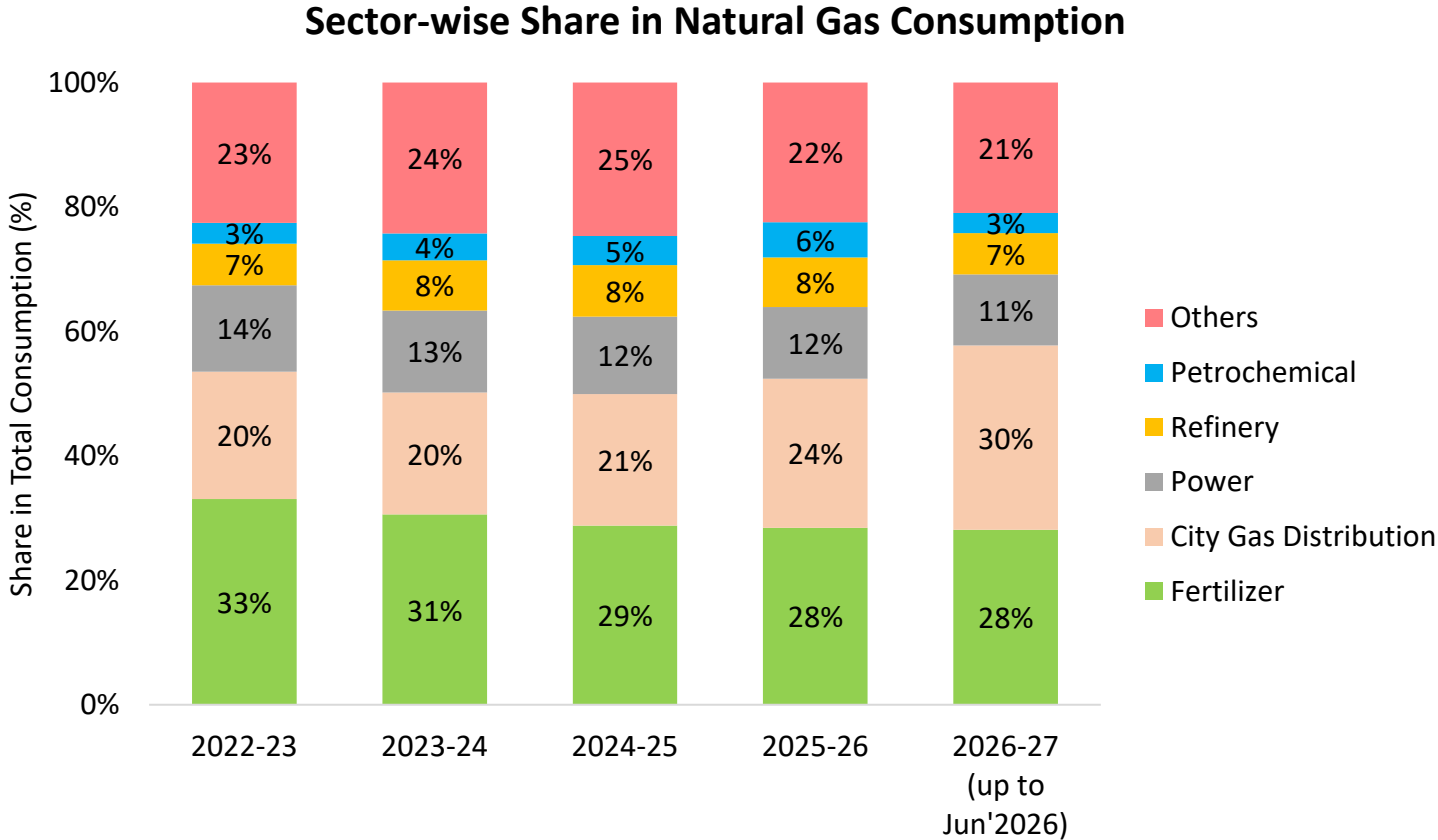
NOTE: The data is based on the latest available information.

Source: MoPNG and PPAC

Daily Prices of Crude Oil

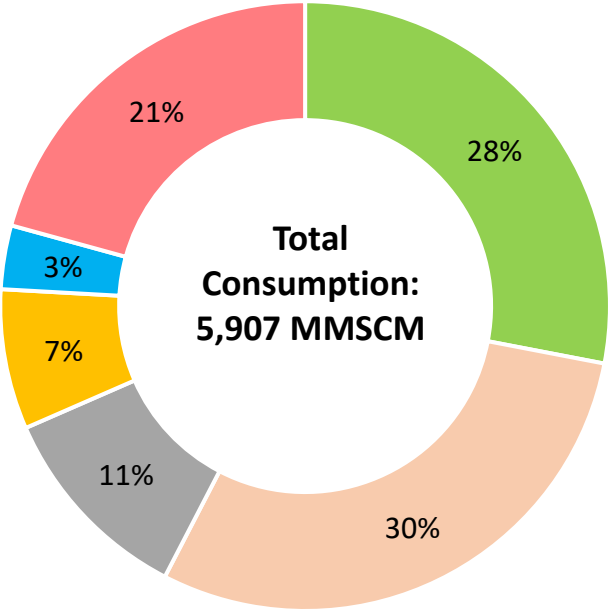


Gas Market Scenario (1/2)



Total Consumption of Natural Gas (NG) (MMSCM)					
Total Consumption	2022-23	2023-24	2024-25	2025-26	2026-27 (up to Jun'2026)
Natural Gas	58,702	68,809	71,196	69,048	16,732

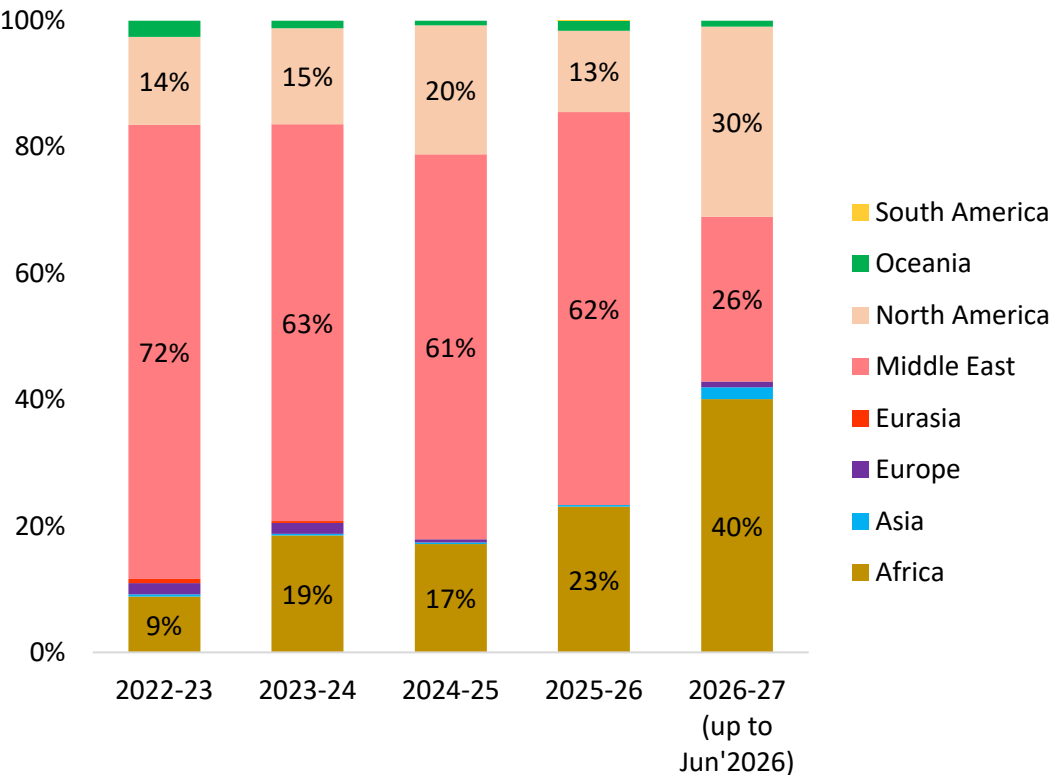
Sector-wise share in Natural Gas Consumption in June 2026



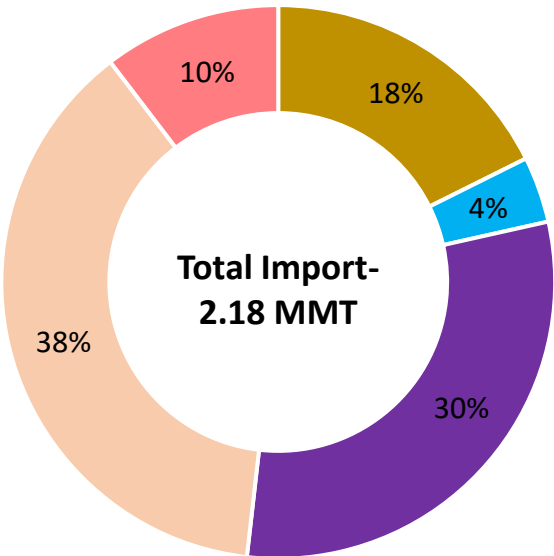
Others include- Internal Consumption of Pipeline System, Industrial, Sponge iron/steel, LPG shrinkage, Manufacturing, Agriculture (tea plantation), Others

Gas Market Scenario (2/2)

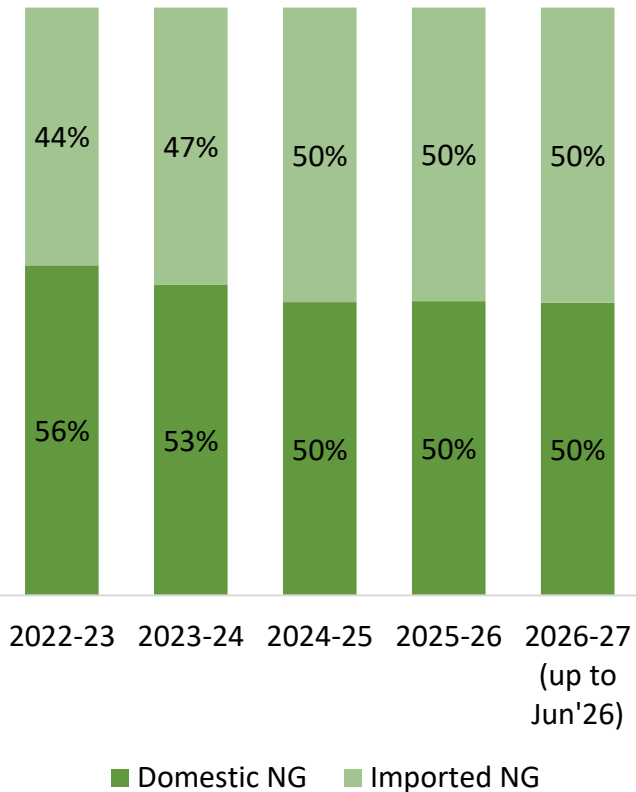
Region-wise Share in Import of LNG (%)



Regional Share of Imported LNG in June 2026



Domestic and Imported Natural Gas share in India (%)

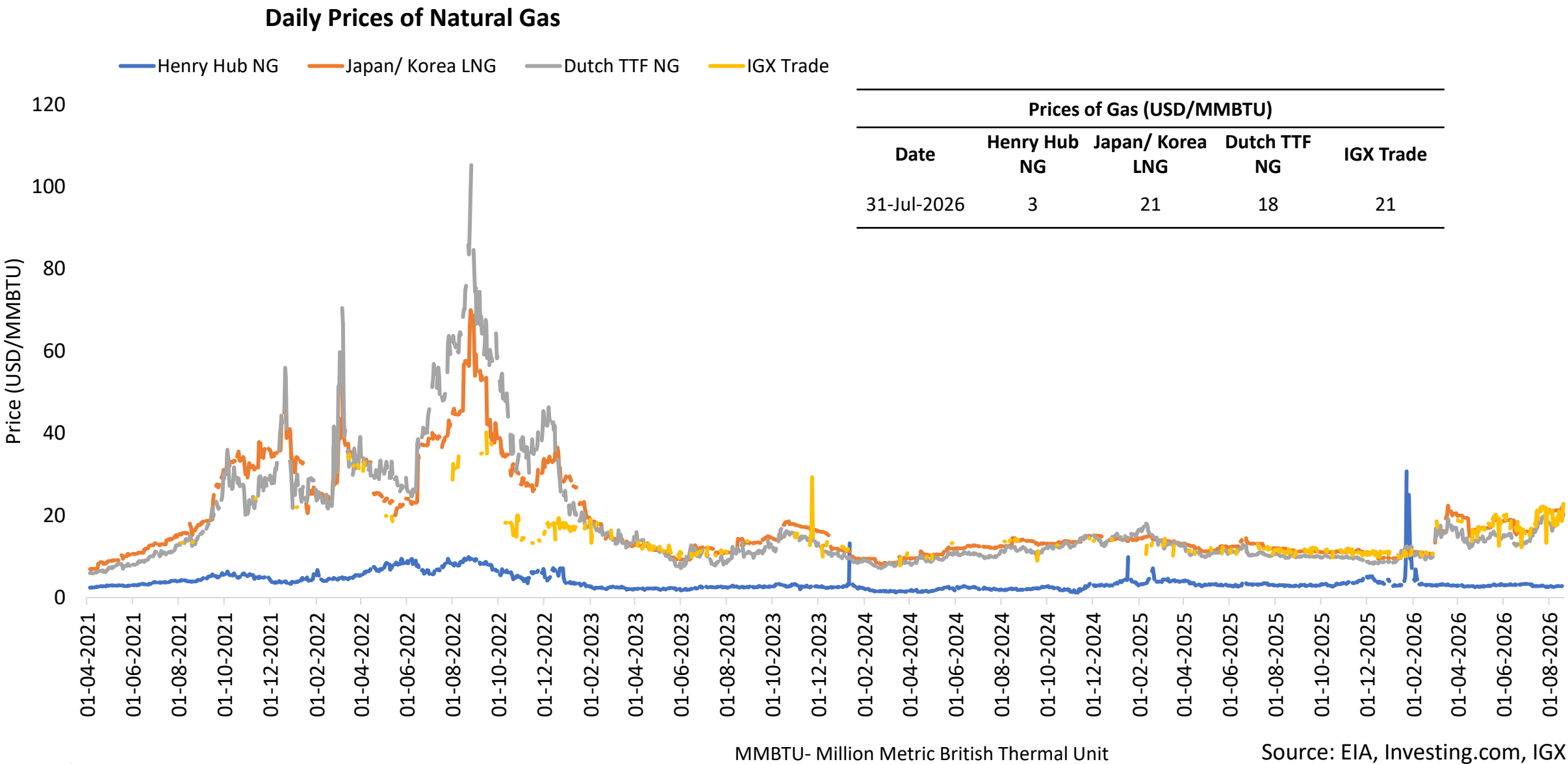


Total Import of Liquefied Natural Gas (LNG) (MMT)			
Total Import	2024-25	2025-26	2026-27 (up to Jun'2026)
LNG	26.96	25.82	6.27

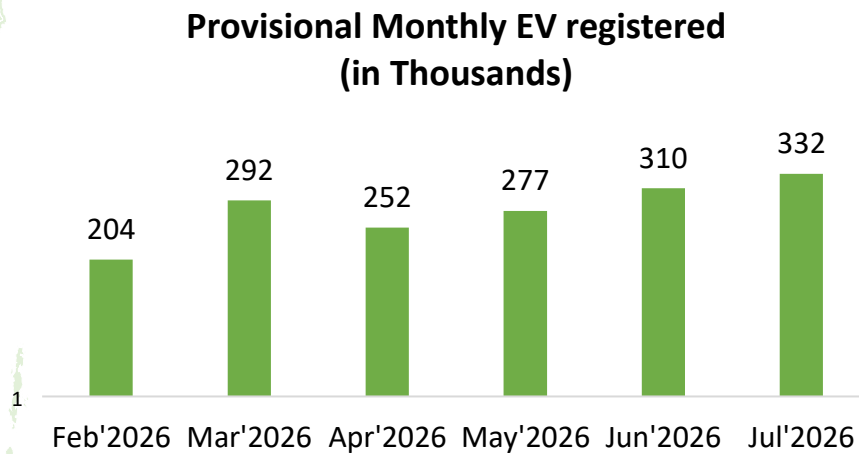
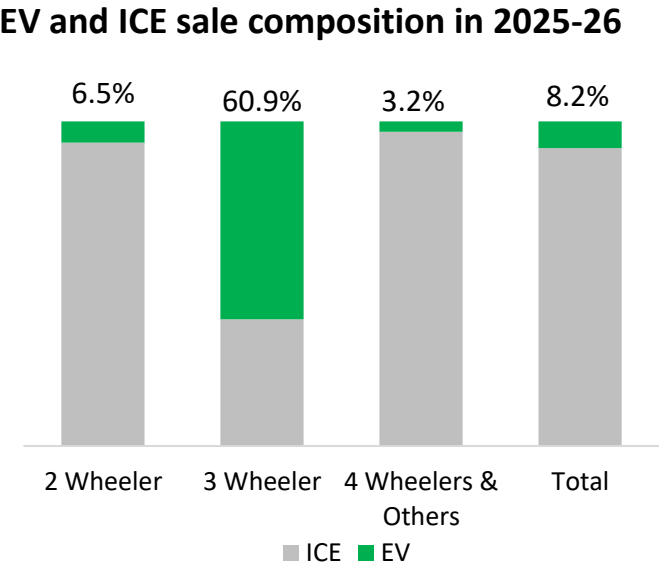
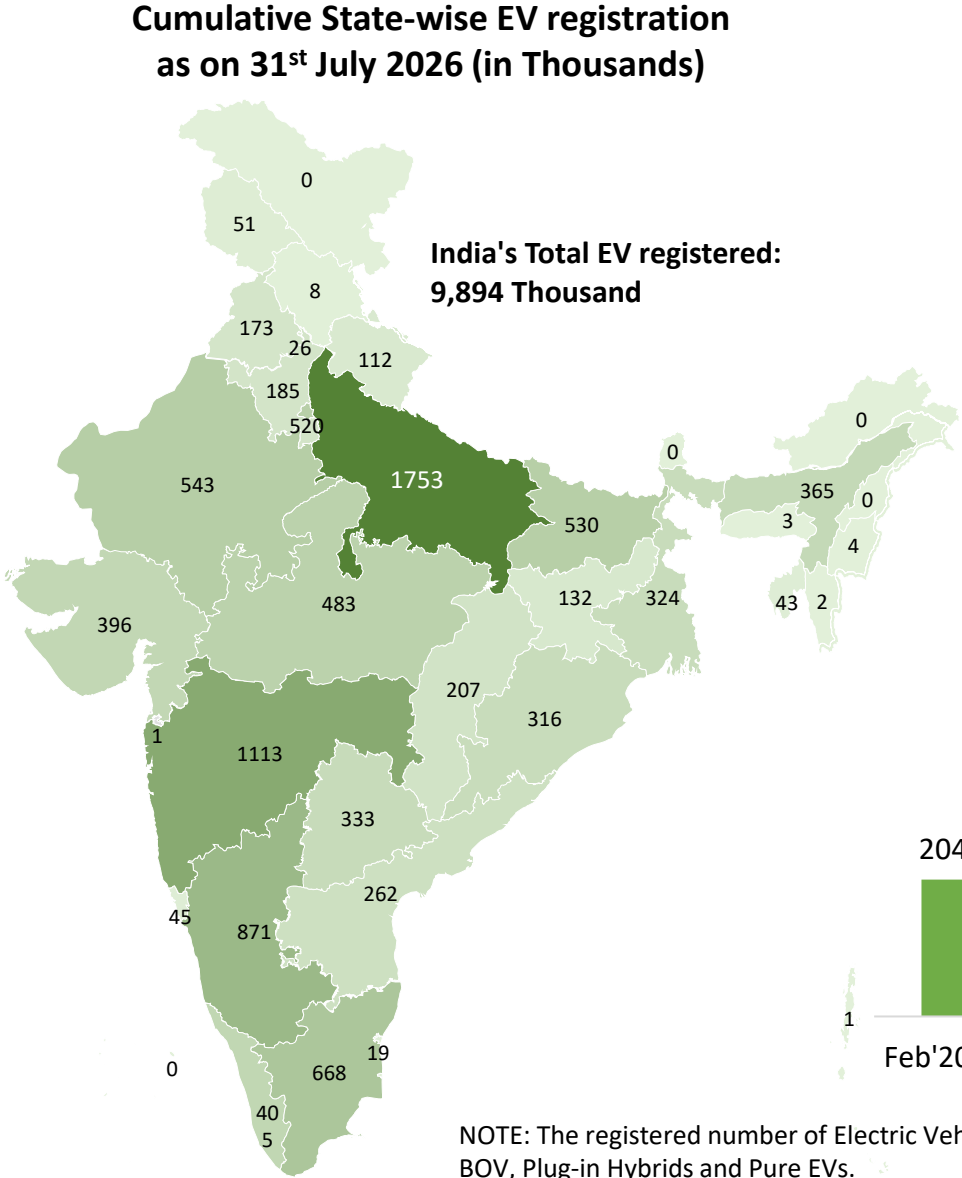
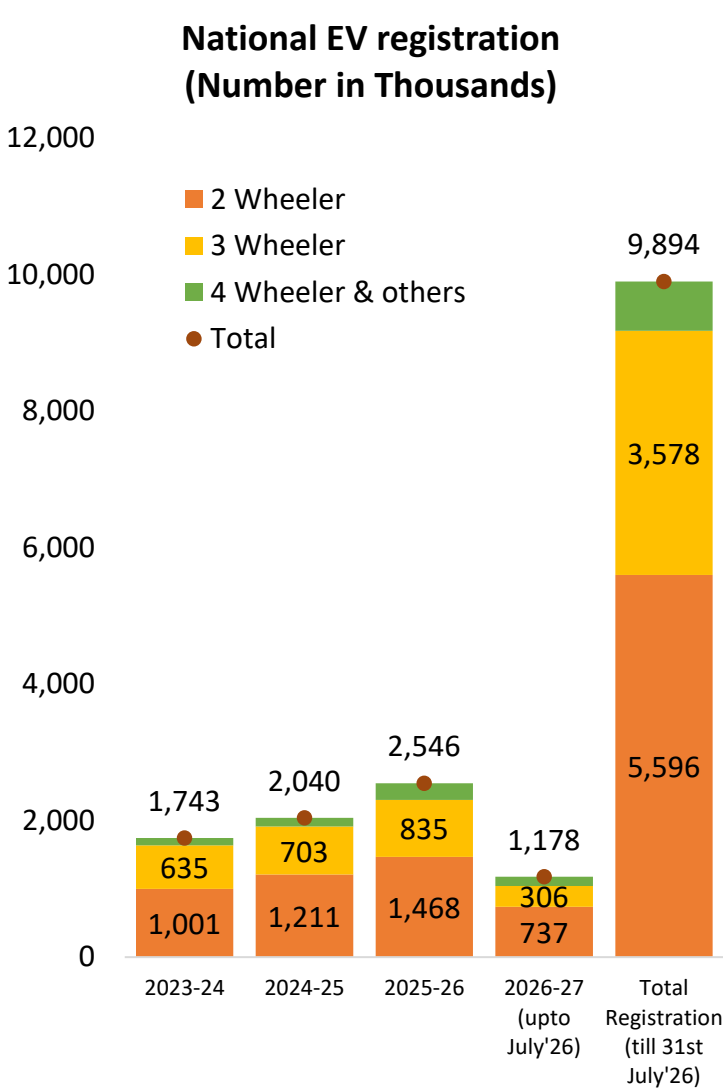
NOTE: The data is based on the latest available information.

Source: MoCI and PPAC

Daily Prices of Gas

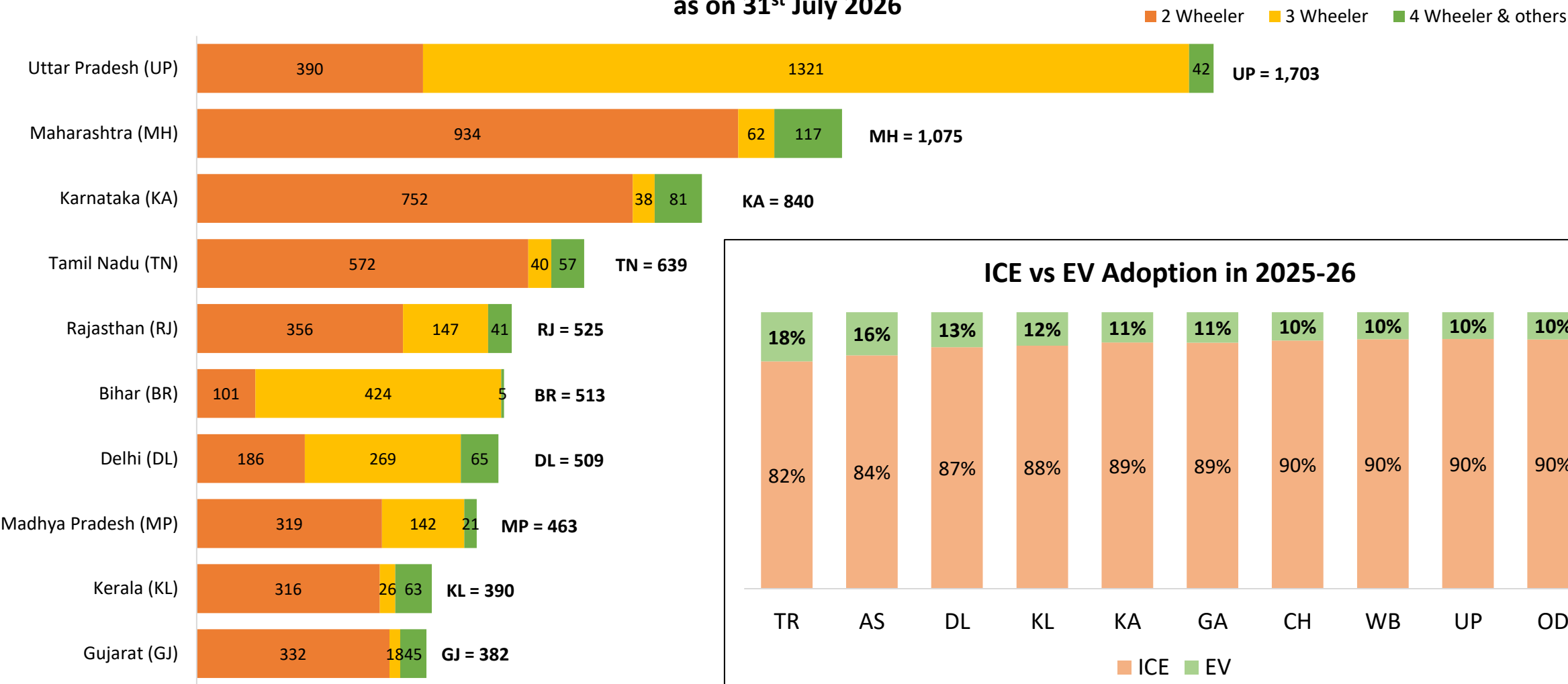


Status of Electric Mobility in India (1/2)



Status of Electric Mobility in India (2/2)

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



Recent Key Highlights or Announcements of July 2026

- [Under the National Green Hydrogen Mission, 12 pilot projects have been awarded to deploy 70 hydrogen-powered vehicles](#), including 27 buses and 43 trucks equipped with Fuel Cell Electric Vehicles (FCEV) and Hydrogen Internal Combustion Engine (H₂-ICE) technologies. The projects will also establish 16 Hydrogen Refuelling Stations (HRS) across 21 routes in different states. The projects have received total sanctioned financial assistance of approximately ₹410.77 crore, of which ₹41.58 crore has been released so far.
- Indian Railways flags off [India's first hydrogen-powered train on the Jind-Sonipat section of Northern Railway on 17 July 2026](#). The key features of the train are:
 - 10-car hydrogen fuel cell-based trainset.
 - Powered by a 1200 kW hydrogen fuel cell propulsion system.
 - Approved to operate at a maximum speed of 75 kmph with a design speed of 110 kmph.
 - Capacity of around 2,600 Passengers.
- The Union Cabinet approved the [Pradhan Mantri Surya Sarovar Yojana](#) with a total outlay of ₹5,070 crore for developing Floating Solar PV projects with Energy Storage Systems. The key outline are:
 - The scheme targets 5,000 MW of floating solar capacity with at least 10,000 MWh of co-located energy storage.
 - Projects will be sanctioned during 2026-27 to 2030-31, with financial support continuing up to 2032-33.
 - The scheme will provide Central Financial Assistance (CFA) of ₹1 crore/MW for eligible projects after commissioning, along with up to ₹50 lakh per project for feasibility and preparatory studies.



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FOUNDATION
Green ways for a good earth!

Vasudha Foundation

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