



Cambodia's Policies Toward Carbon Neutrality

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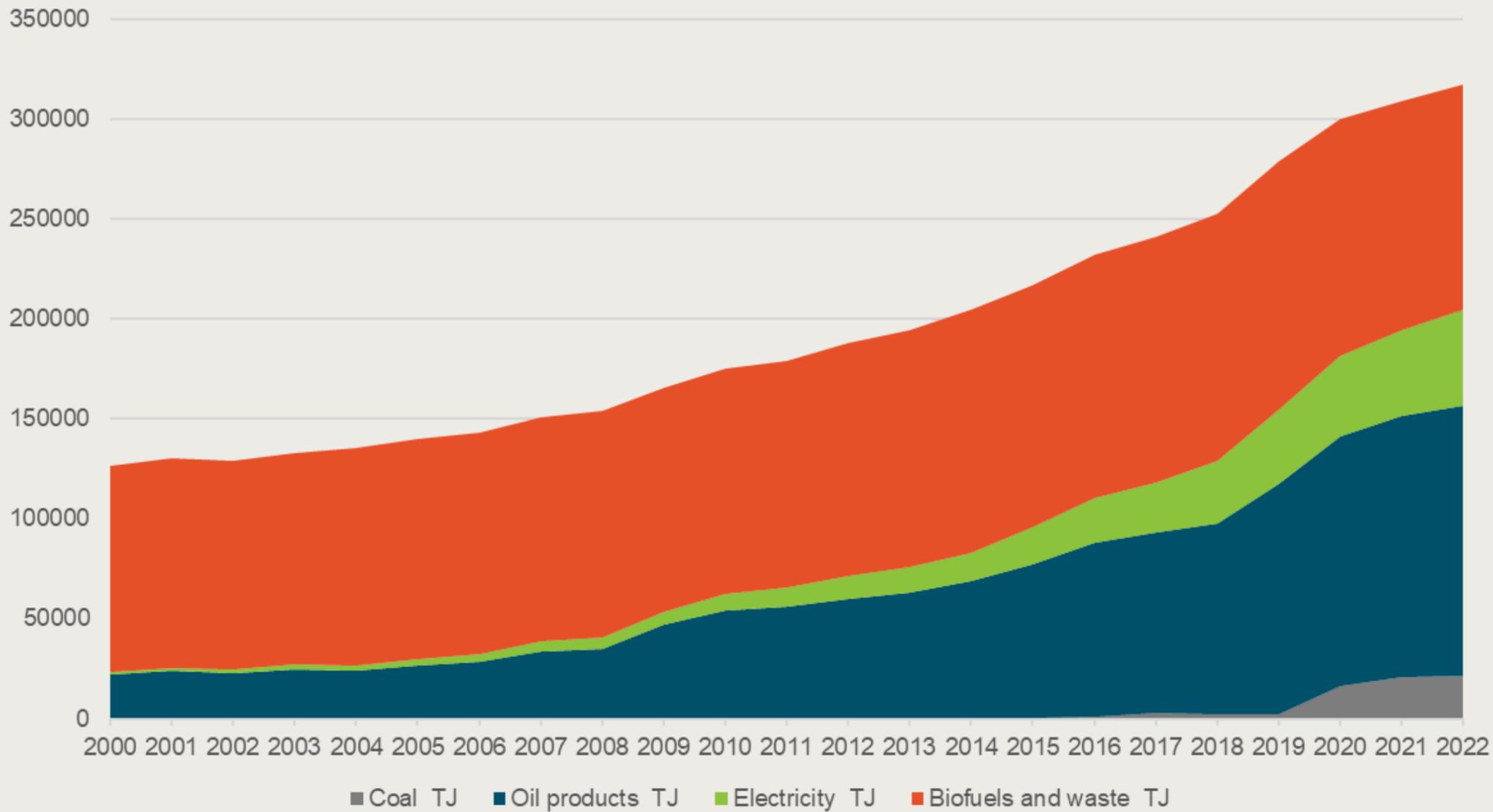
- **Energy Sector Overview**
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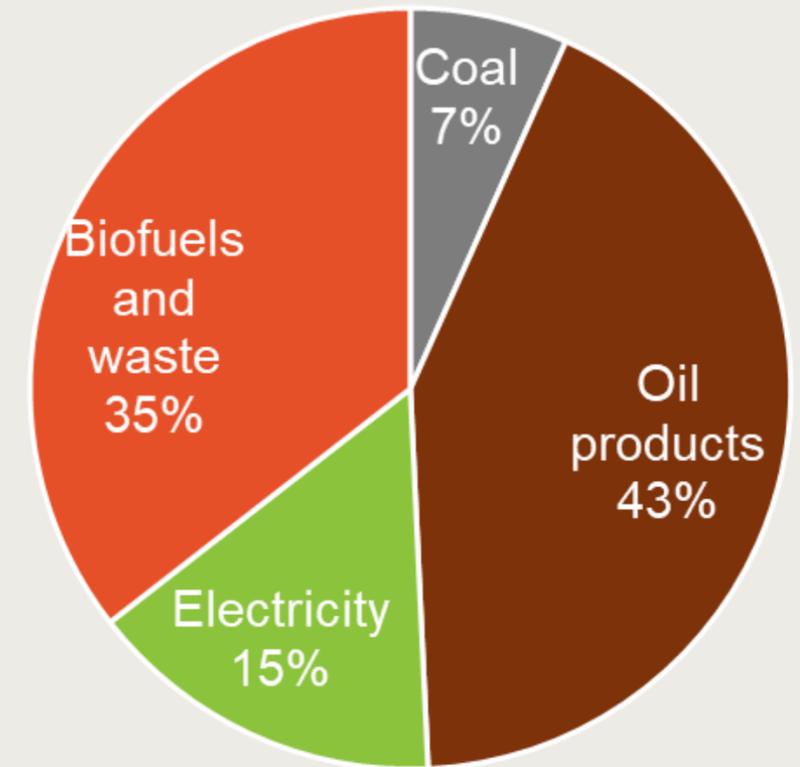
Energy Sector Overview



Total Final Consumption (TJ)



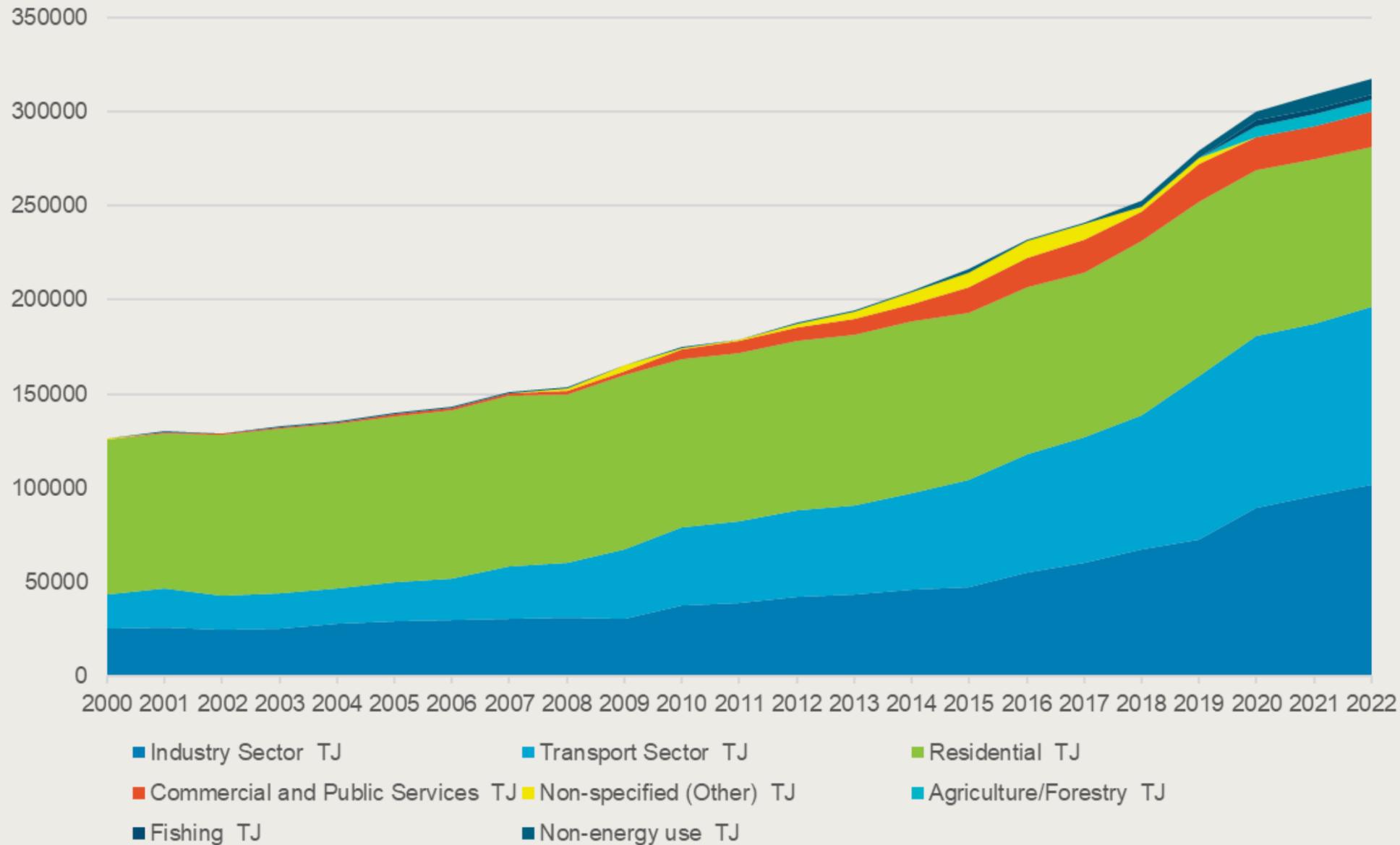
Total Final Consumption
(317,193 TJ in 2022)



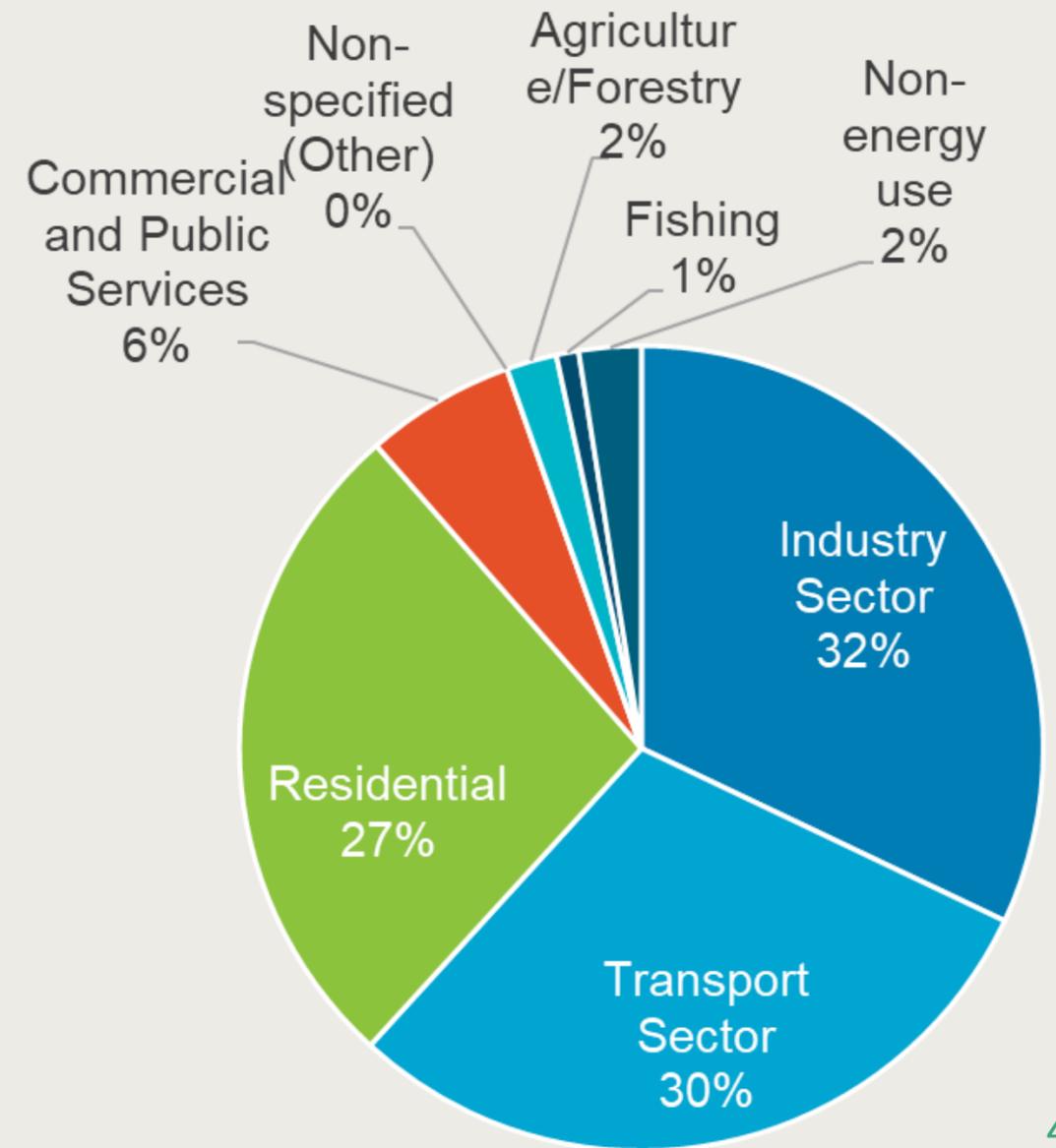
Energy Sector Overview (Cont.)



Total Final Consumption by sectors (TJ)



Total Final Consumption by Sector (317,192 TJ in 2022)



Energy Sector Overview (Cont.)



5 044 MW

Total Installed
Capacity

3,890.66 km

Transmission Lines
with 70 sub-stations

61.11%

Of Grid Capacity is
Renewables



25 Provinces/Capitals

From 17 to all 25 provinces/capitals in a decade coverage

Distribution Networks

99,257 km

MV+LV

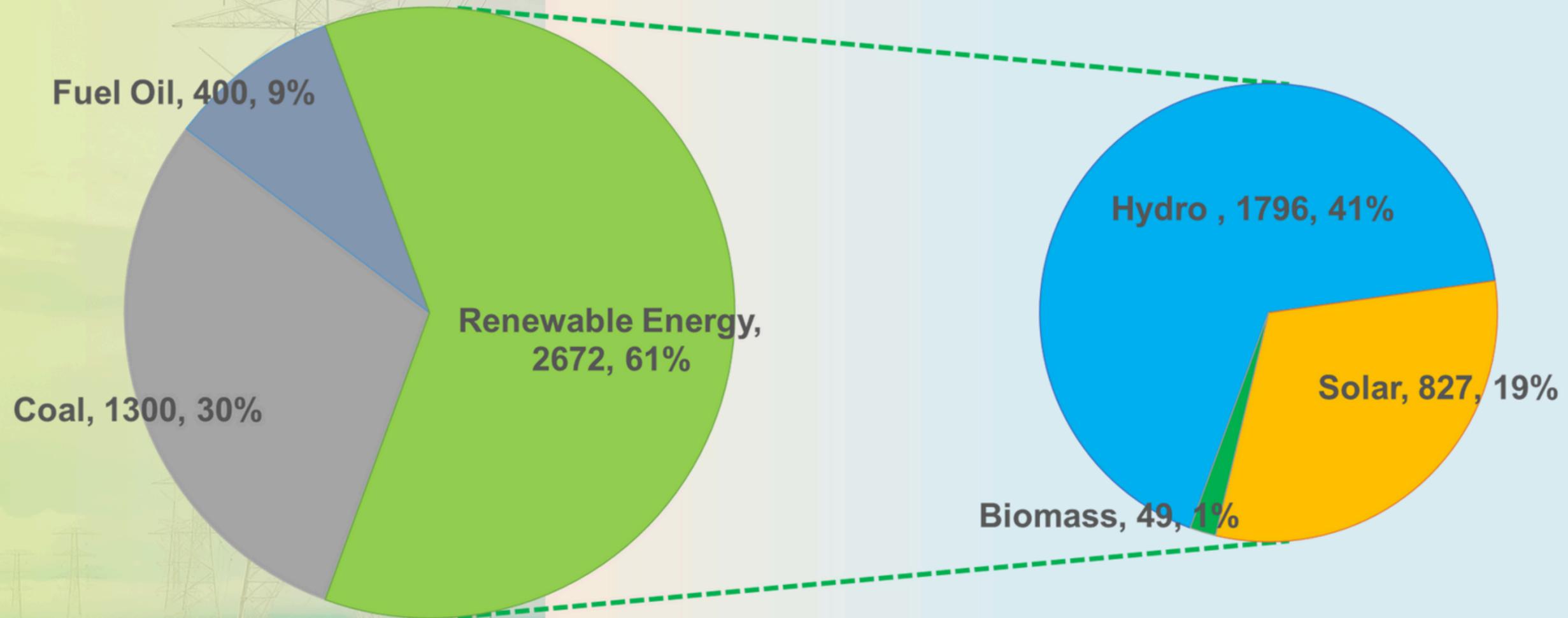
99.15%

Villages
Connected

3.6 Millions

95.24 of Homes
Connected

Energy Sector Overview (Cont.)



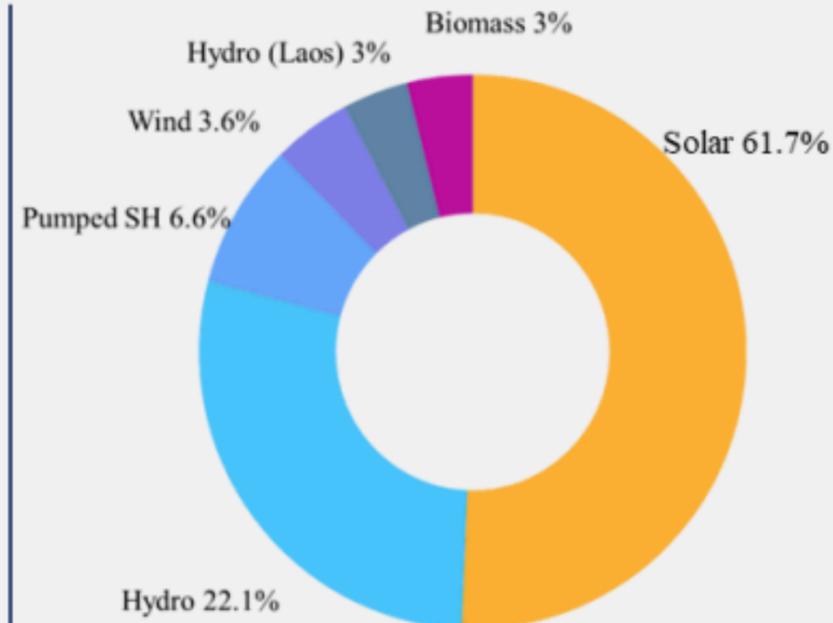
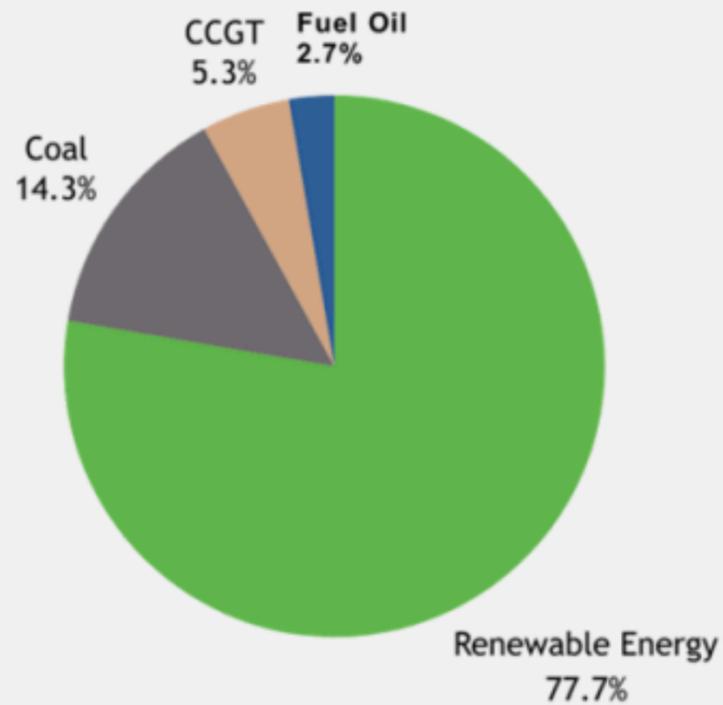
Domestic Capacity in 2024

Capacity Mix Target in 2030&2040

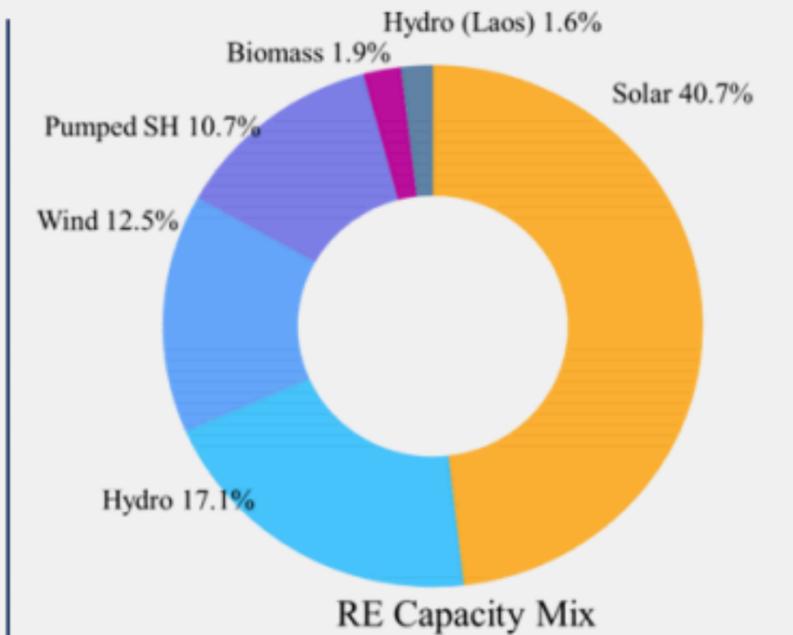
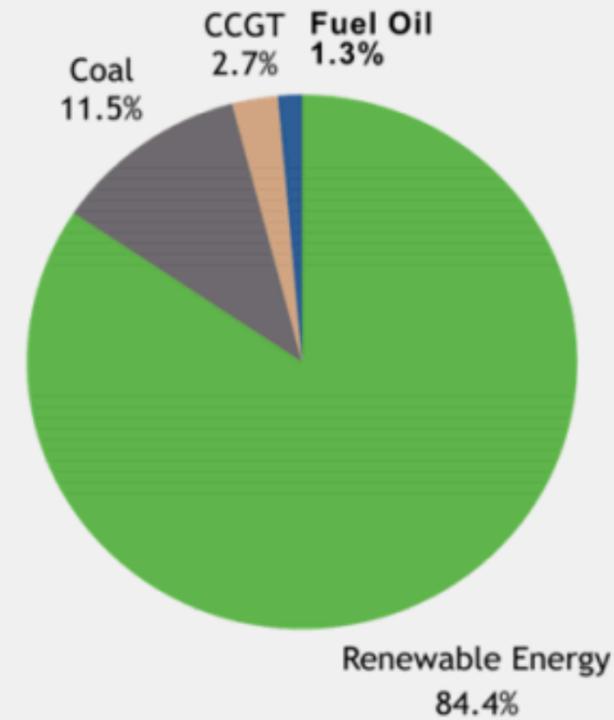
REVISED PDP - TARGET CAPACITY MIX, 2030

REVISED PDP - TARGET CAPACITY MIX, 2040

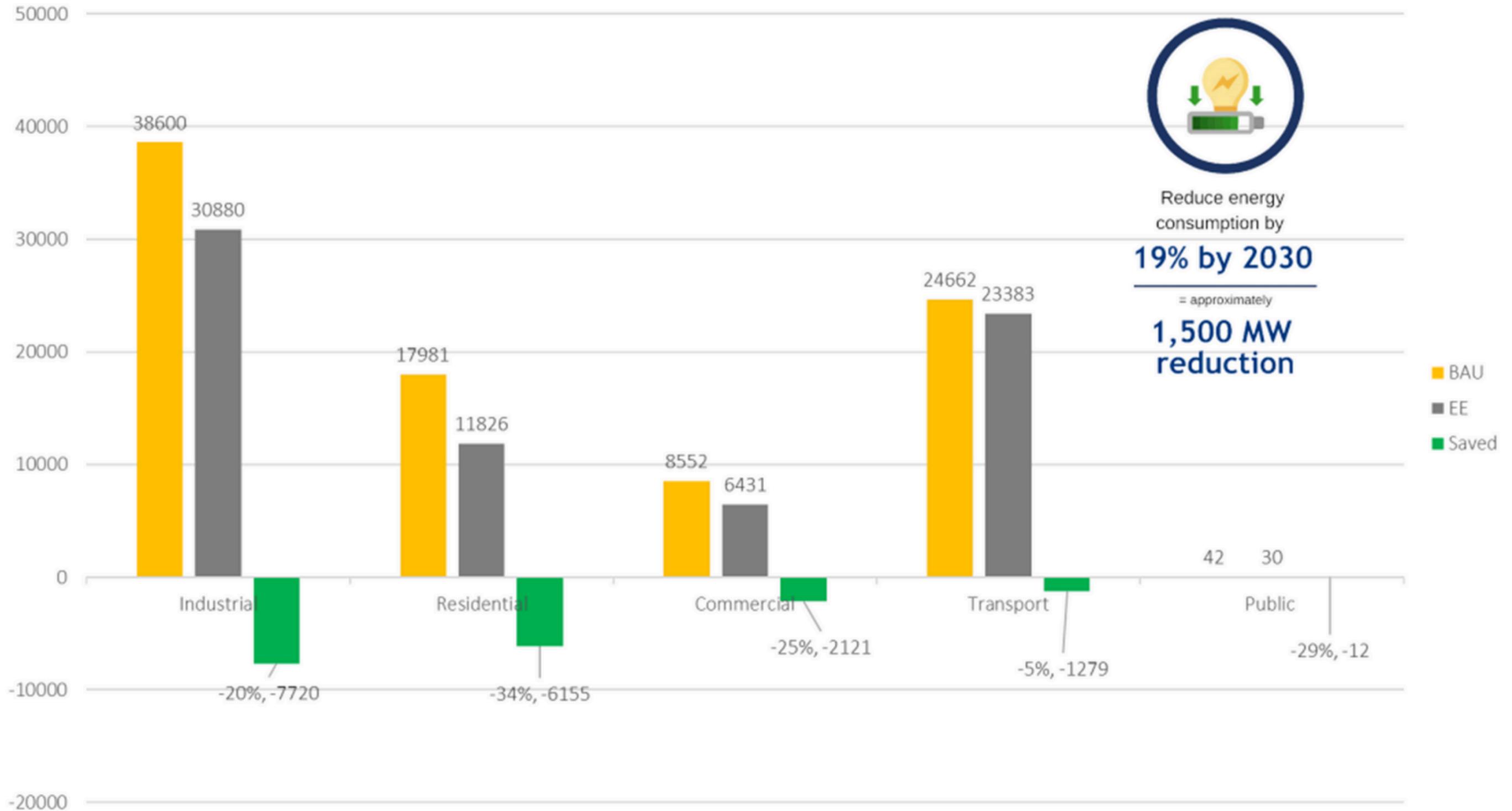
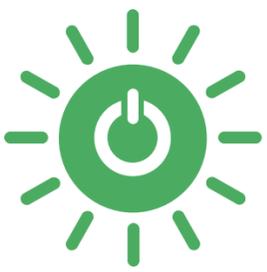
REVISED PDP - TARGET CAPACITY MIX, 2030



REVISED PDP - TARGET CAPACITY MIX, 2040



National Energy Efficiency Policy



National Energy Efficiency Policy (Cont.)



Sectoral Policy Measures	Status	Sectors
Establishment of energy management program for Industry and Building	Under Progress	Industries and Building
Developing regulations to enforce implementation of energy management program	Under Progress	
Establishment of a system for the empanelment and rating of ESCOs	Under Progress	
Establishment of Monitoring Reporting and Verification System of Energy Efficiency	No Progress	
Developing EES&L for electrical appliances	Under Progress (RAC Regulation is done)	
Training program implementation with certification for energy auditors	Under Progress	
Developing Building Energy Codes (BEC) for Residential and Commercial Buildings	Under Progress	
Establishment of Regulation to enforce implementation of Building Energy Code	Under Progress	
Developing Green Building guidelines and certification (Applicable for building only)	Under Progress	
Establishment of a National Lighting Code and harmonization of standards for public lighting	No Progress	Public Service
Integration of energy efficiency projects into Public Service and Smart City Plans	No Progress	
Developing Regulations to promote EV use and EV charging infrastructure	Done	Transport
Developing Regulations for fuel efficiency	No Progress	
Training and capacity building	Under Progress	Cross-sector
Awareness raising campaign on energy-efficient Measures	Under Progress	
Project preparation support for Sectoral Energy Efficiency Activities	Under Progress	

National EV Development Policy



**NATIONAL EV DEVELOPMENT POLICY
2024-2030**
(Approved on 29th May 2024)

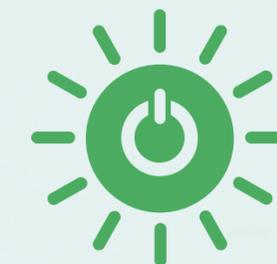
NATIONAL EV DEVELOPMENT POLICY 2024-2030

The national policy aims to develop the ecosystem of the electric vehicle sector effectively and flexibly with the evolution of electric vehicle technology. The national targets includes:

- BEVs: 30 000, including 25 000 of private cars and 5000 of commercial cars;
- E-2 Wheelers: 720 000;
- E-3 Wheelers: 20 000.



Updated NDC3.0: Mitigation and Adaptation

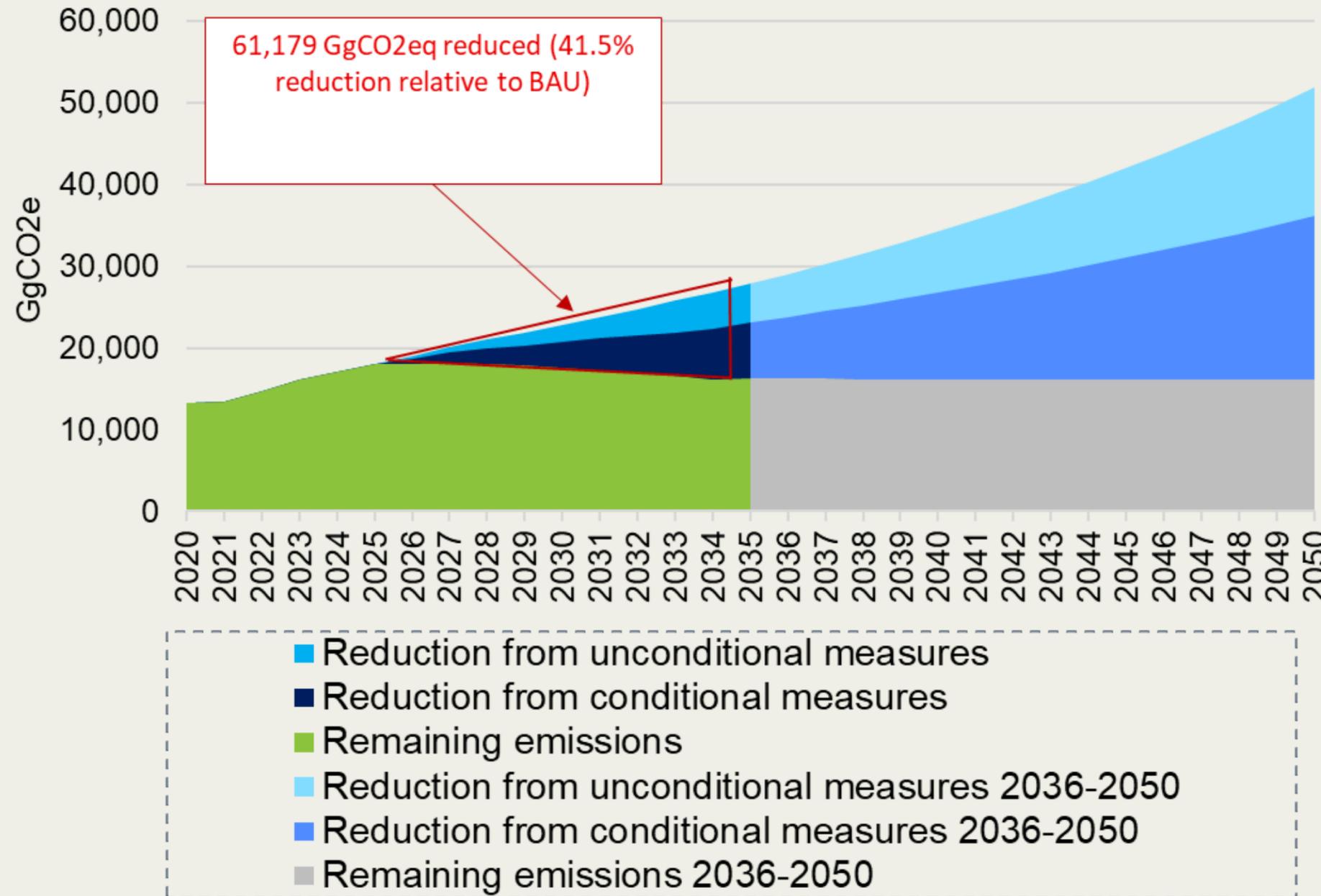


#	Measure	Conditionality	GHG mitigation potential in 2035 (GgCO2e)	Cumulative 2026-2035 GHG mitigation potential (GgCO2e)	Investment needs (USD Million)
Mitigation					
1	Increase the share of RE-installed capacity to 72% by 2035	Unconditional	2,877	15,335	7,700
	(conditionally to 80% by 2035)	Conditional	1,918	10,223	5,100
2	Electrification of rural areas to switch from diesel battery charging or fossil-based energy sources to national grid electricity and renewable energy	Conditional	1,362	6,949	607.4
3	Improve supply-side energy efficiency through the adoption of grid modernization technologies	Conditional	424	2,738	220
4	Phase down coal-fired power plants	Conditional	Included in Measure #1		5
5	Carbon Capture and Utilization (CCU) from Coal Power Plants	Conditional	1,089	4,891	15
6	Adapt efficient and clean energy for cooking	Conditional	417	2,129	11
7	EE Standards and Labelling (S&L) Program for residential appliances	Unconditional	642	3,276	6
8	EE S&L Program for Industrial designated appliances	Unconditional	1,303	6,651	25
9	Establishment of the digital energy balance linking with energy management program for the building (MLMUPC), Industry, and SME Sector (MISTI) and others	Conditional	778	4,807	85
10	Establishment of MEPS for public lighting	Conditional	195	1,202	8
11	Development of Building Energy Code policy framework & inclusion of a Passive Cooling strategies performance indicator	Conditional	584	2,978	143
Total mitigation			11,589	61,179	13.9
Adaptation					
1	Enhance Climate-Proof Energy Infrastructure	Conditional	NA	NA	43
2	Strengthen Grid Resilience & Monitoring	Conditional	NA	NA	34.2
3	Enhance Preparedness & Capacity Building	Conditional	NA	NA	1.5
Total adaptation					78.7

Updated NDC3.0: Results and Finalization



NDC 3.0 Energy sector GHG emission scenarios

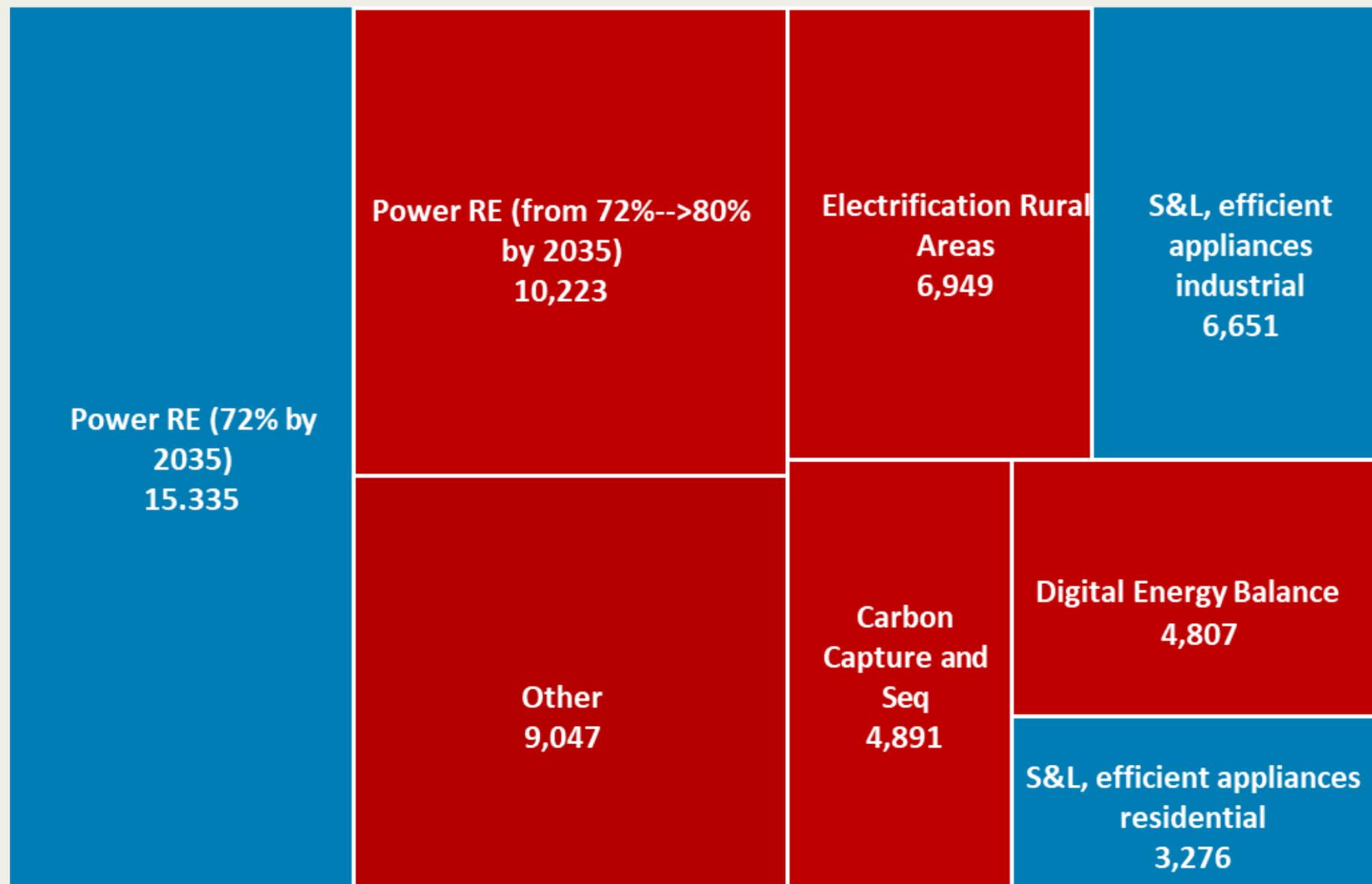


- Power generation sector demonstrates increased ambition in NDC 3.0 compared to NDC 2.0 (from 39.8% to 41.5%)
- The pathway is consistent with net zero by 2050
- The installed capacities are to accommodate the economic growth path under the scenario of Cambodia becoming an upper-middle income country by 2030 and follow the revised PDP

NDC3.0: GHG impacts 2026-2035



Relative GHG impact in GgCO2eq



● Unconditional ● conditional

- Increasing RE installed capacities would bring the highest GHG impact (unconditional 15,335 GgCO2eq for 72% and conditional 10,233 GgCO2eq for 80%)
- Last mile electrification and industrial S&L would bring the second largest Emission Reduction
- Other measures include grid modernization, passive cooling technologies, clean cook stoves and LED public lighting

THANK YOU!



