

Energy Security of Lao PDR

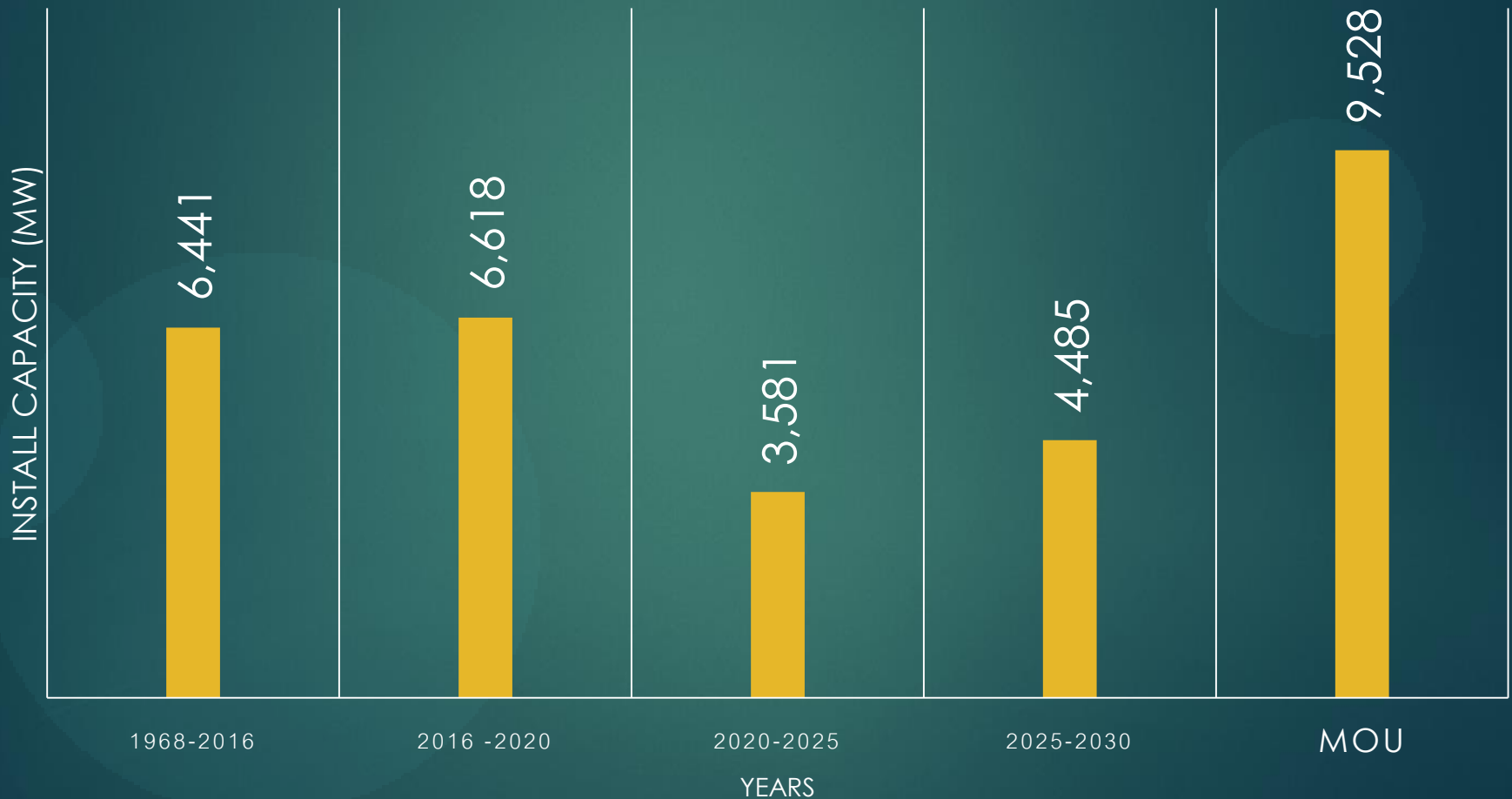


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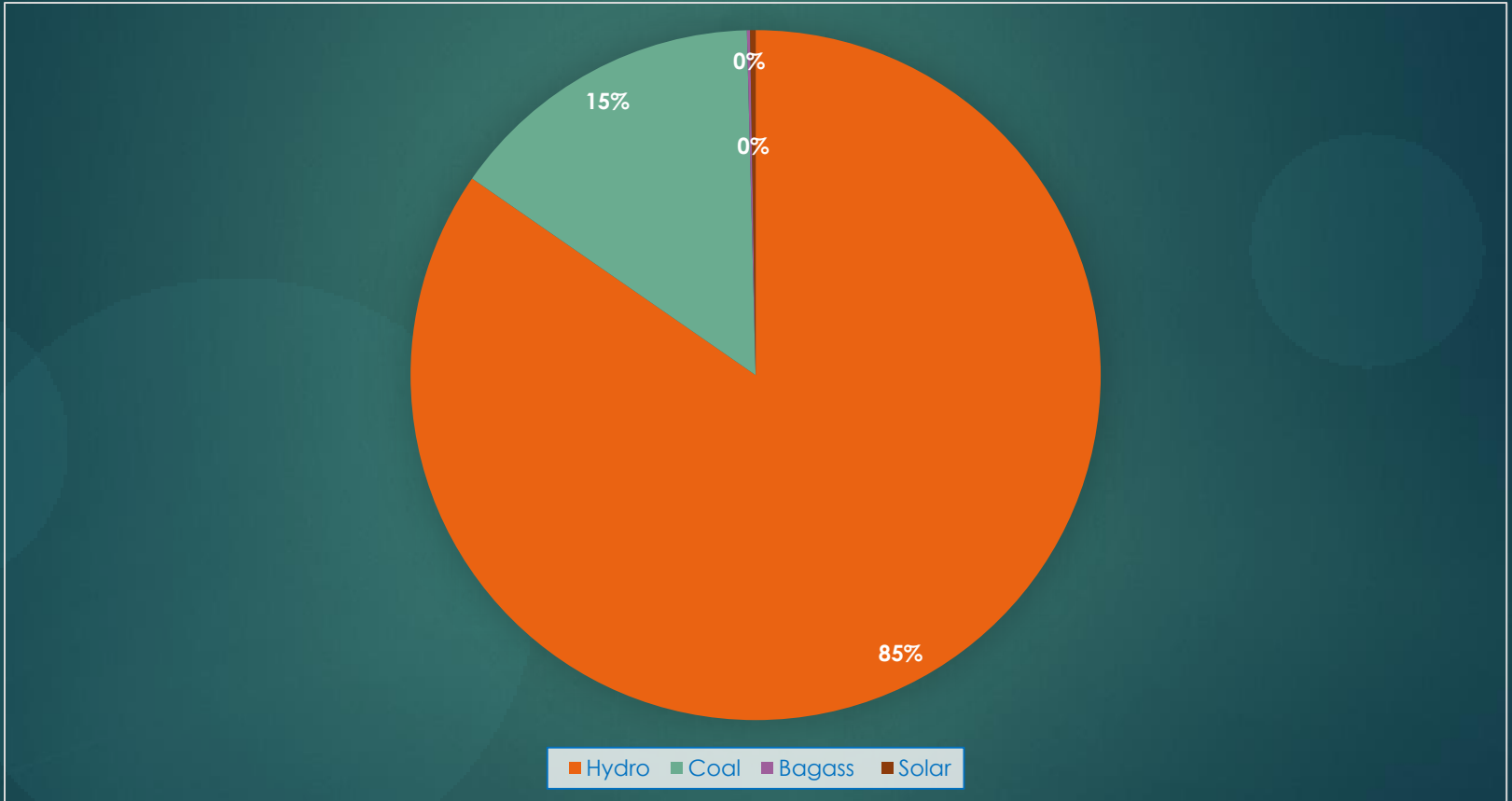
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Power Potential

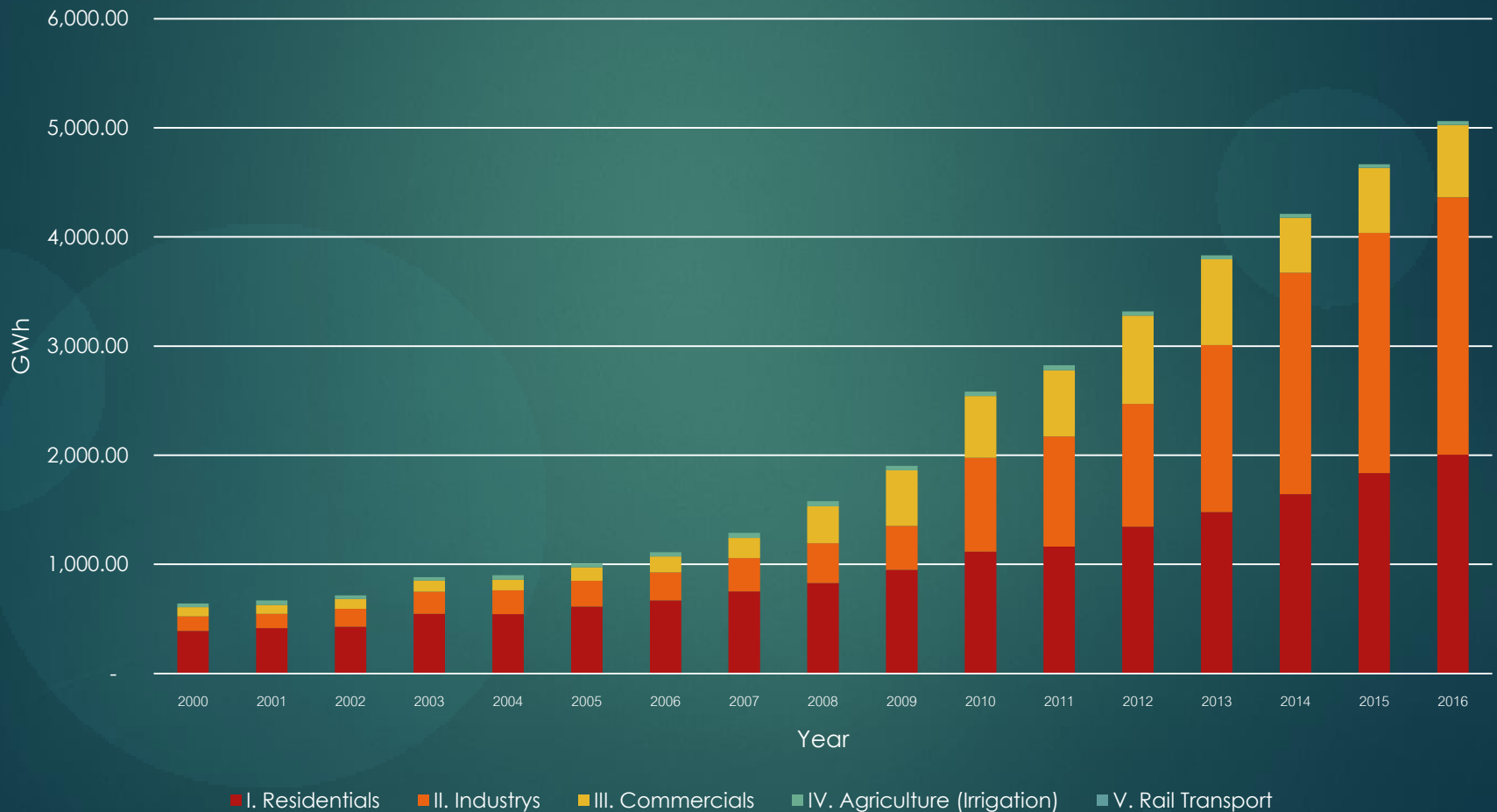
POWER POTENTIAL OF LAO PDR



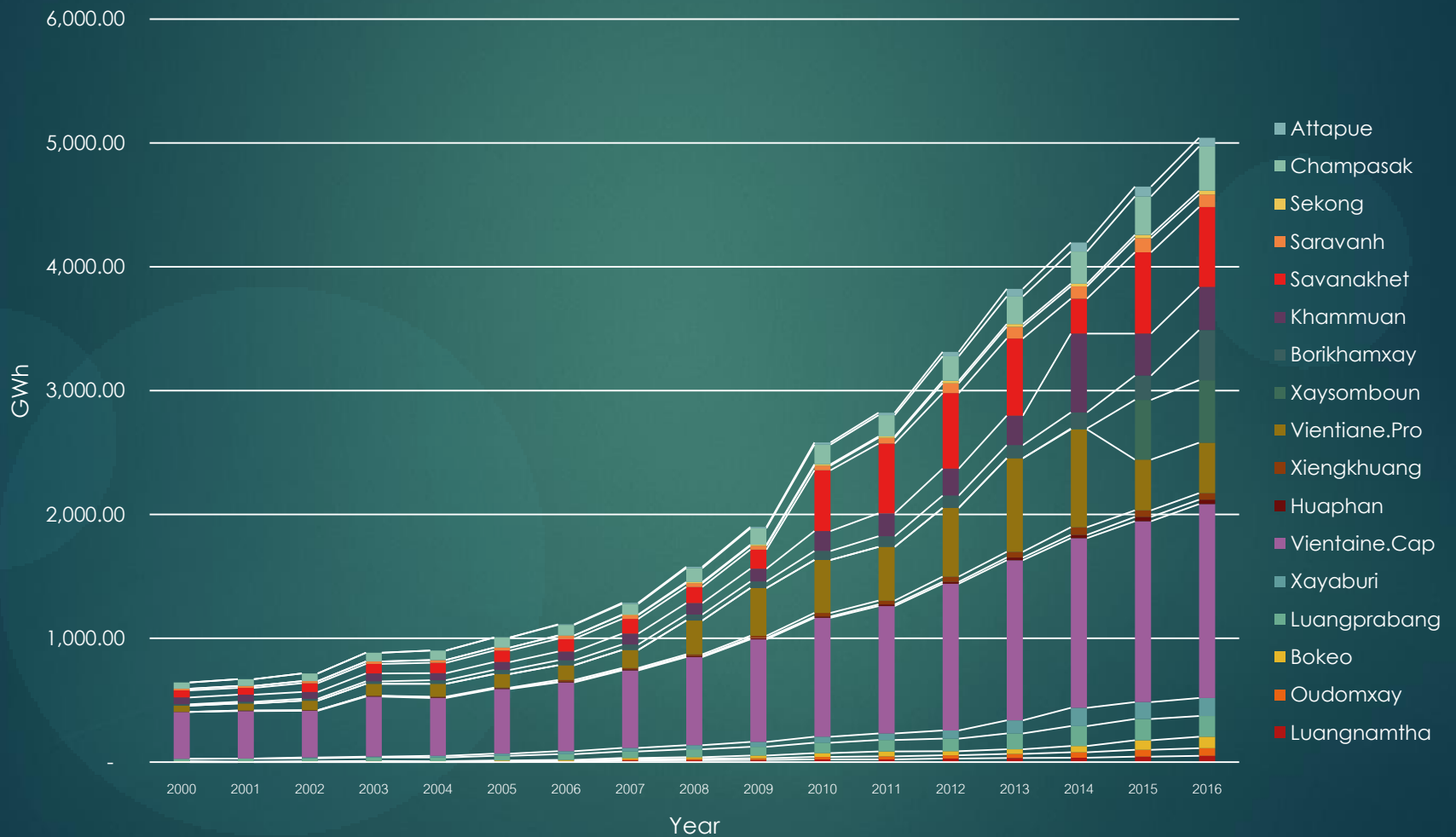
The Percent share of Power Potential by Fuel Types



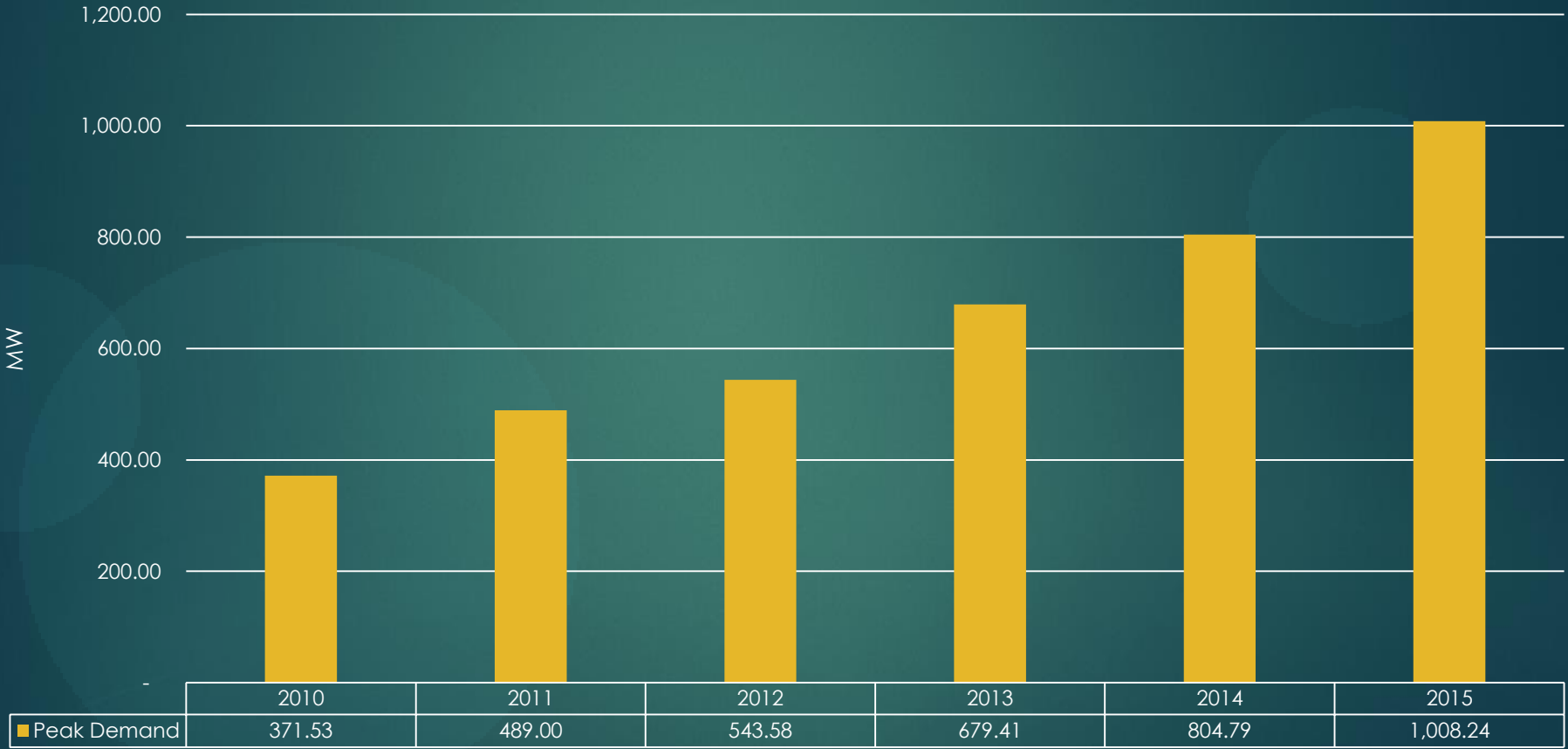
Electricity Consumption by Sectors as Whole Country



Electricity Consumption by Province as Whole Country



Peak Demand as whole Country



■ Peak Demand

Year

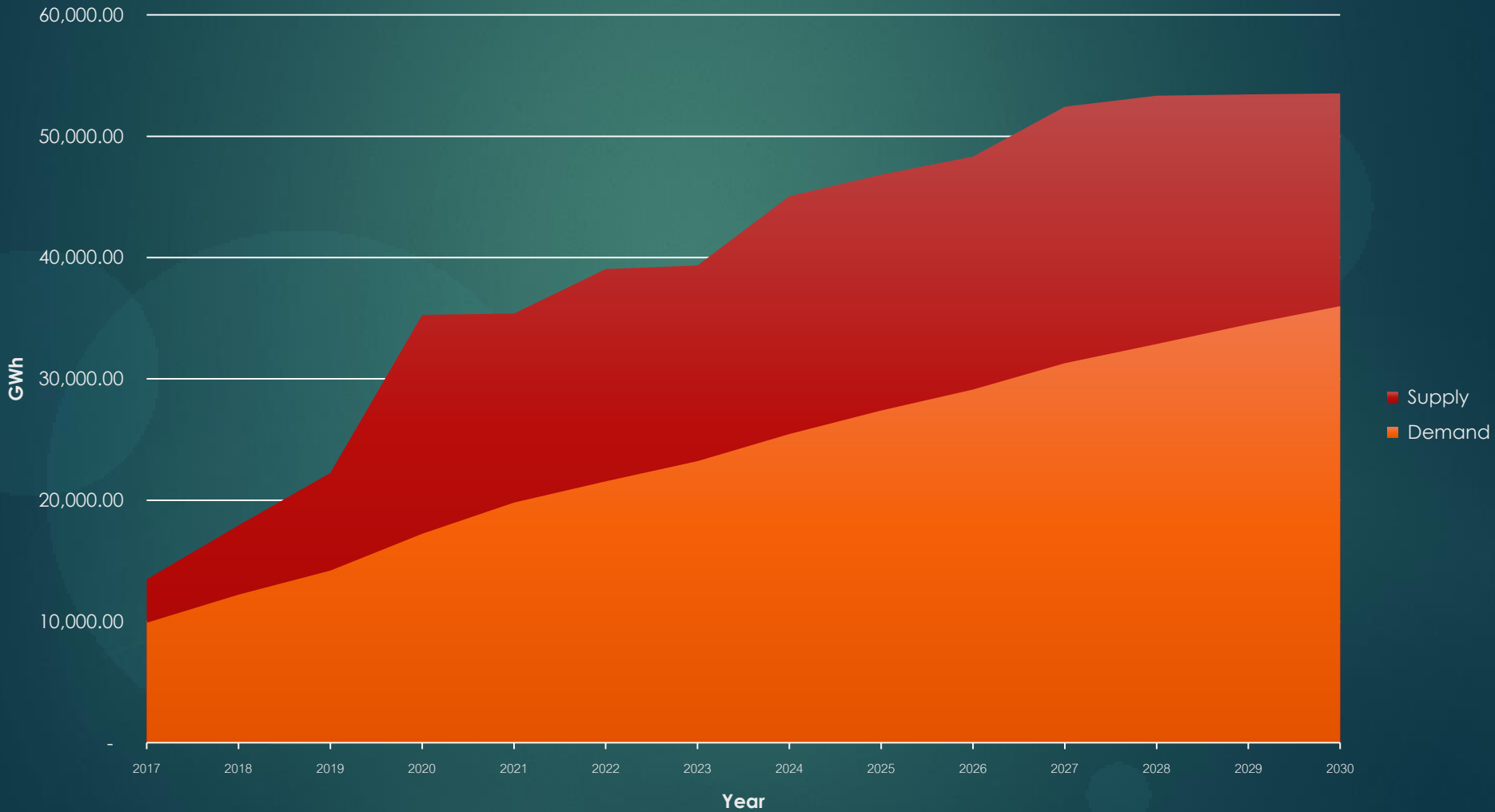
Estimate Supply and Demand

Unit: GWh

Year	Supply	Demand	Reserve Margin (%)
2015	6,636.01	4,904.66	26.09
2016	11,072.52	8,095.61	26.89
2017	13,473.40	9,890.01	26.60
2018	17,933.86	12,205.41	31.94
2019	22,257.37	14,186.18	36.26
2020	35,282.36	17,238.49	51.14
2021	35,379.24	19,796.73	44.04
2022	39,044.98	21,543.48	44.82
2023	39,338.74	23,210.17	41.00
2024	45,053.62	25,458.07	43.49
2025	46,826.62	27,381.21	41.53
2026	48,332.02	29,111.97	39.77
2027	52,438.19	31,284.46	40.34
2028	53,334.99	32,878.04	38.36
2029	53,442.79	34,489.05	35.47
2030	53,522.79	35,998.31	32.74

Supply and Demand Figures

Supply Vs Demand



Coal Resource Potential

COAL TYPES	INDICATED RESERVES (TONS)	PERCENT SHARE (%)
SUBBITUMINOUS	582,791,500	96.82
SUBBITUMINOUS - ANTHRACITE	12,923,030	2.15
BITUMINOUS	225,450	0.04
ANTHRACITE	6,023,130	1.00
TOTAL	601,963,110	100.00

Point of View of Energy Security of Energy Policy of Lao PDR

According to Energy Policy of Lao PDR has determined the target of energy reserve as below:

- ✓ Oil reserve able to supply for 60 days of peak demand and any case of emergency
- ✓ Coal has the calorific value higher than 5,000 kcal/kg have to keep for supply to industry sectors in Lao PDR
- ✓ Coal has the calorific value lower than 5,000 kcal/kg have to keep for supply to power generation plant
- ✓ Power reserve have to achieve 15 % of peak power demand each period
- ✓ Power generation mix should be 65% of hydropower plant, 30% of coal power plant, 5% of renewable

Thank you for attention