

Power Sector in Myanmar



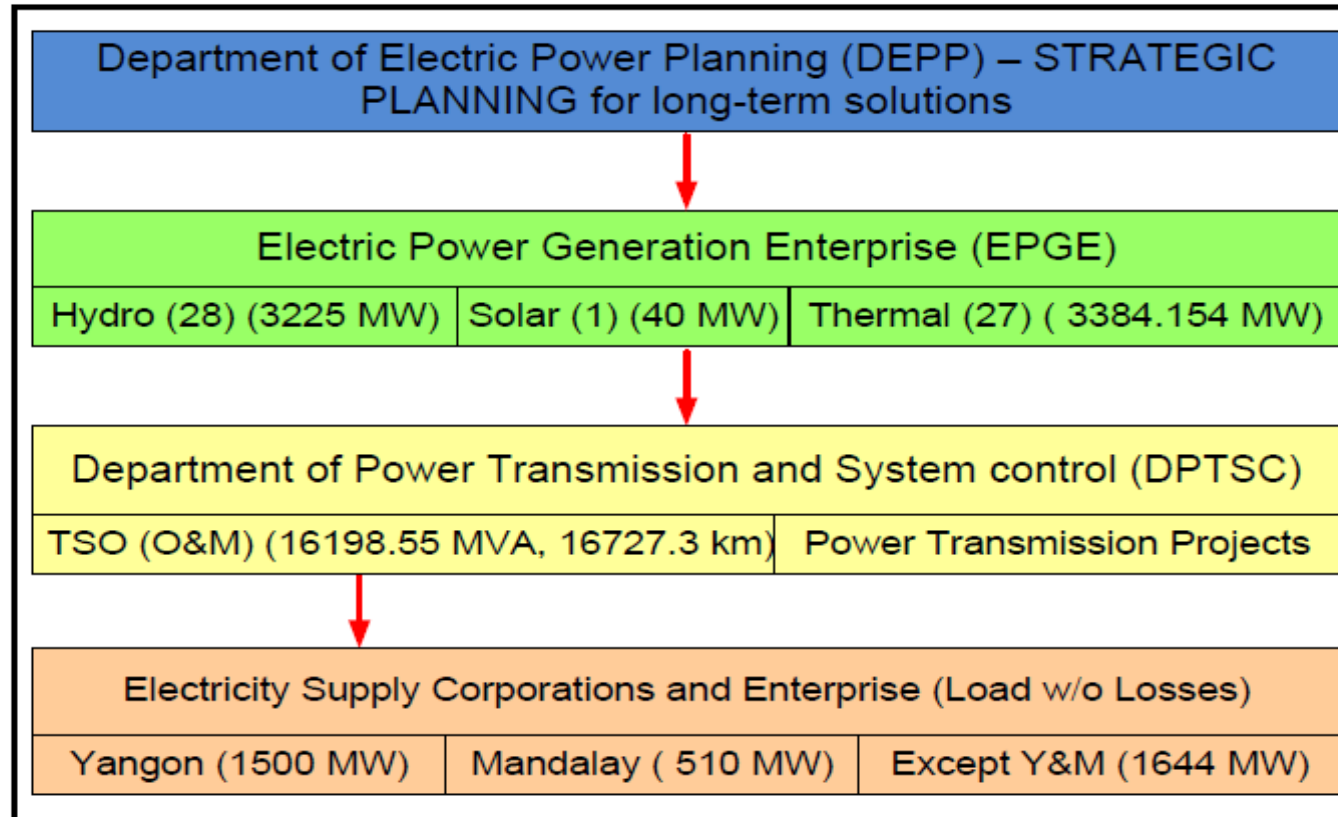
28th Regional Power Trade Coordination Committee
(RPTCC)

August 26, 2021

Salient Data of Myanmar Power System

Peak Load (2021 May)	- 3997MW
Total Number of households	- 10.8 millions
Electrification ration	- 57 %
Total Number of villages	- 63729
Electrified Villages	- 41070(65%)(Grid 30.03%)
Per capita consumptions	- 389 kWh (2019/20)
Power Loss	- 16 % (2019/20)

Status of Power Sector



Installed Capacity and Electricity Generation (December 2020)



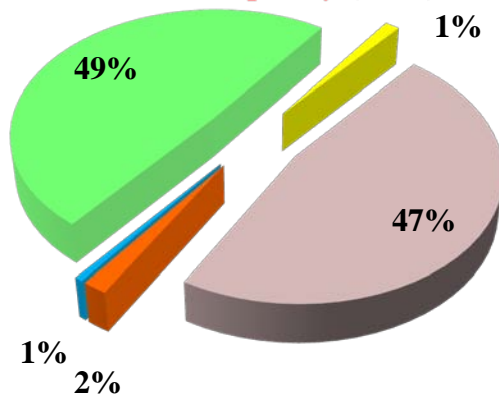
Installed Capacity (MW)

	National Grid	Off Grid	Total
Hydro	3225	37.3	3262.3
Gas / CCGT	3483.6	16	3499.6
Coal	120		120
Solar	40		40
Diesel		91.2	91.22
Total	6868.6	144.5	7013.2

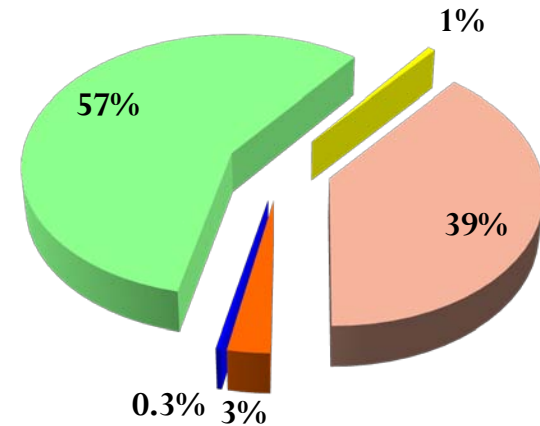
Generation (GWh)

	Generation (GWh)
Hydro	9369.09
Gas	13452.08
Coal	689.34
Diesel	186.02
Solar	81.06
Total	23777.59

Installed Capacity (MW)



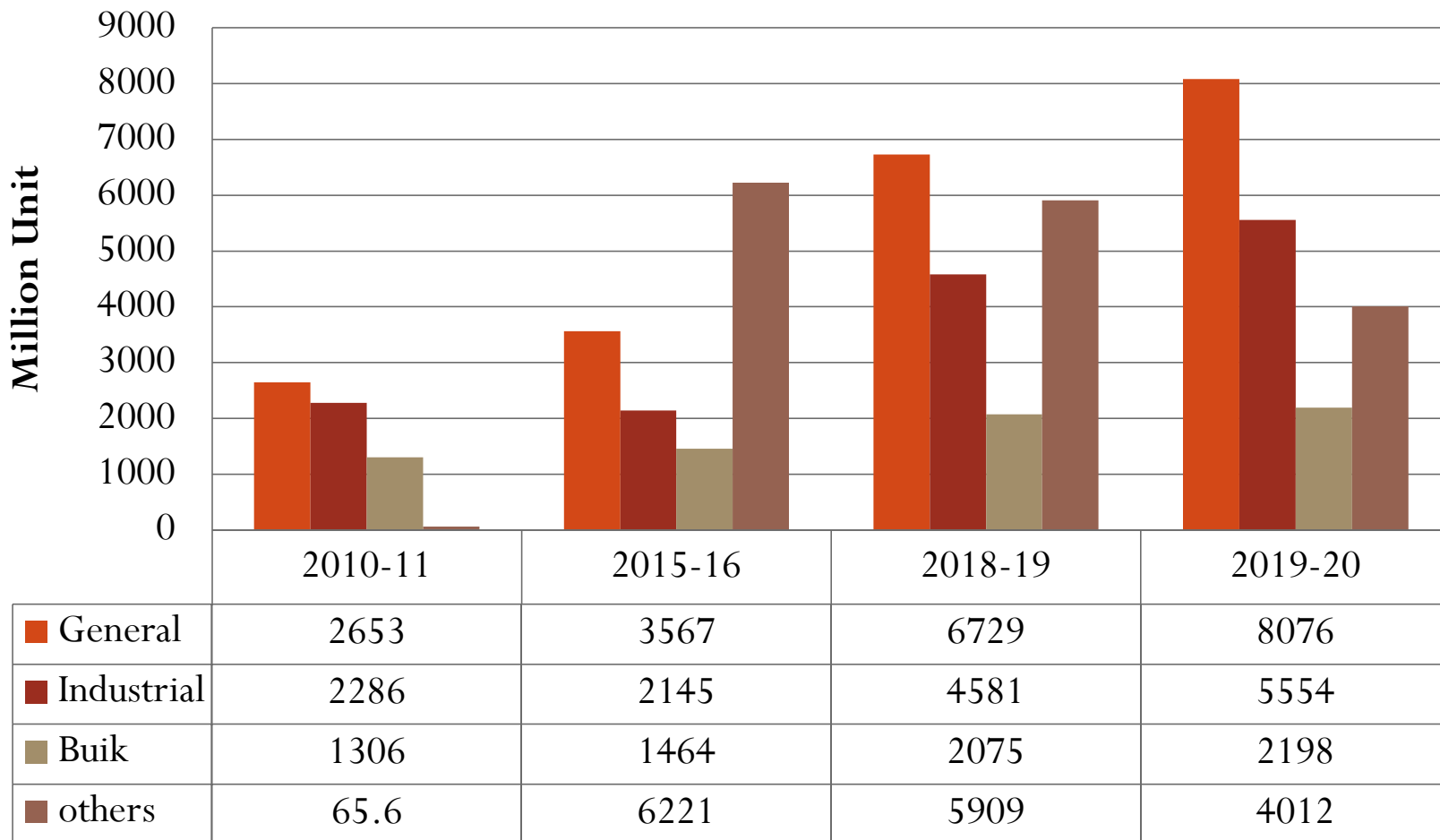
■ Hydro ■ Coal ■ Solar ■ Gas /CCGT ■ Diesel



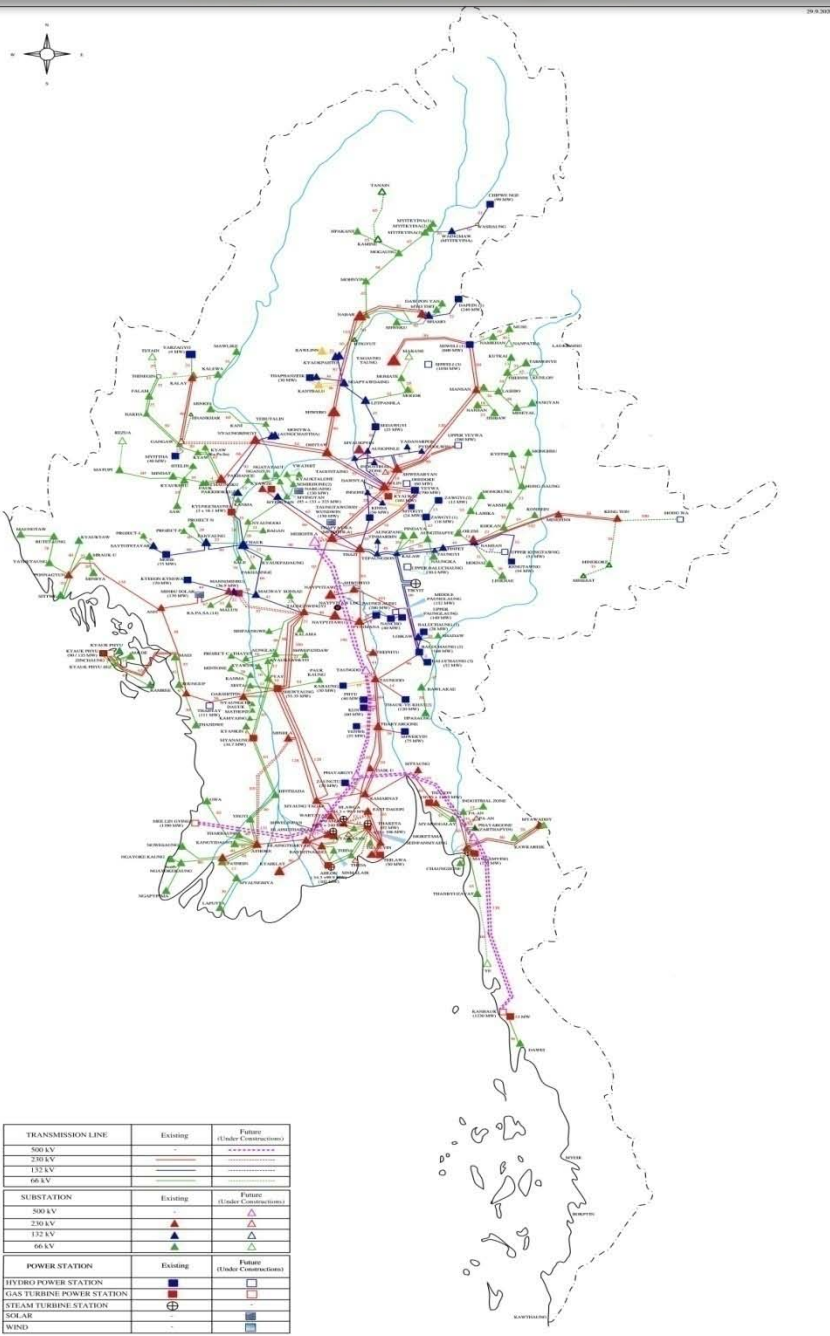
■ Hydro ■ Coal ■ Solar ■ Gas /CCGT ■ Diesel

Power Consumption

Sales of Electric Power by Type



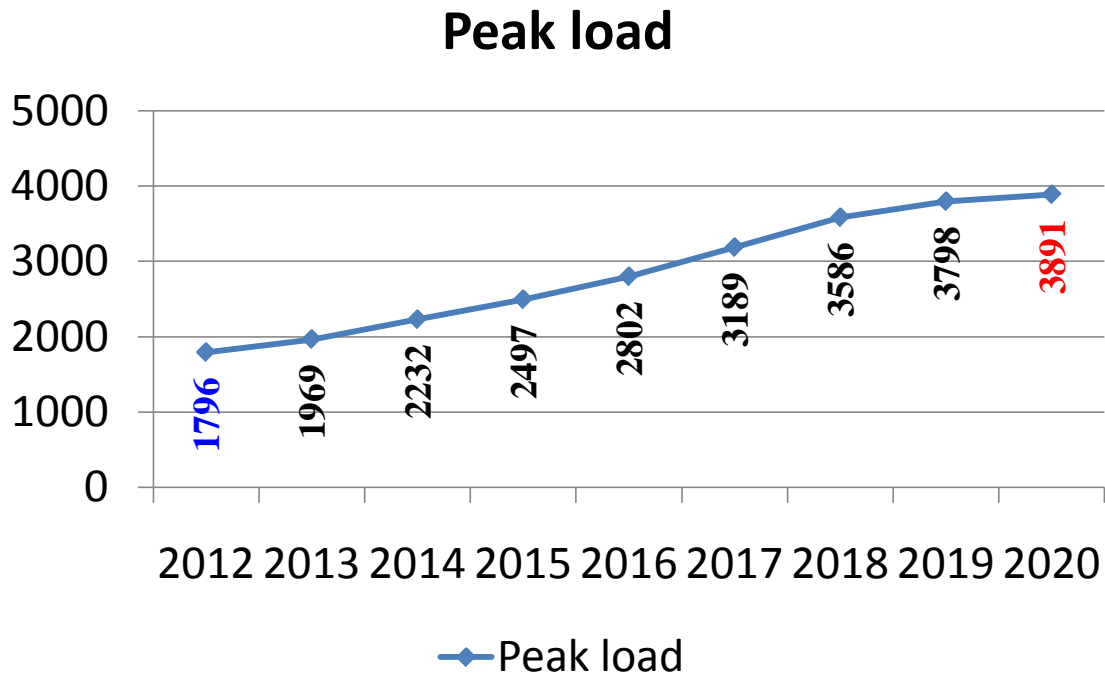
Existing Transmission Lines and Substations



Voltage (kV)	Transmission Line		Substation	
	Nos.	Line Length (km)	Nos.	Capacity (MVA)
230	73	5406.59	50	8536.5
132	41	2185.18	20	2048.0
66	328	8916.58	372	6323.05

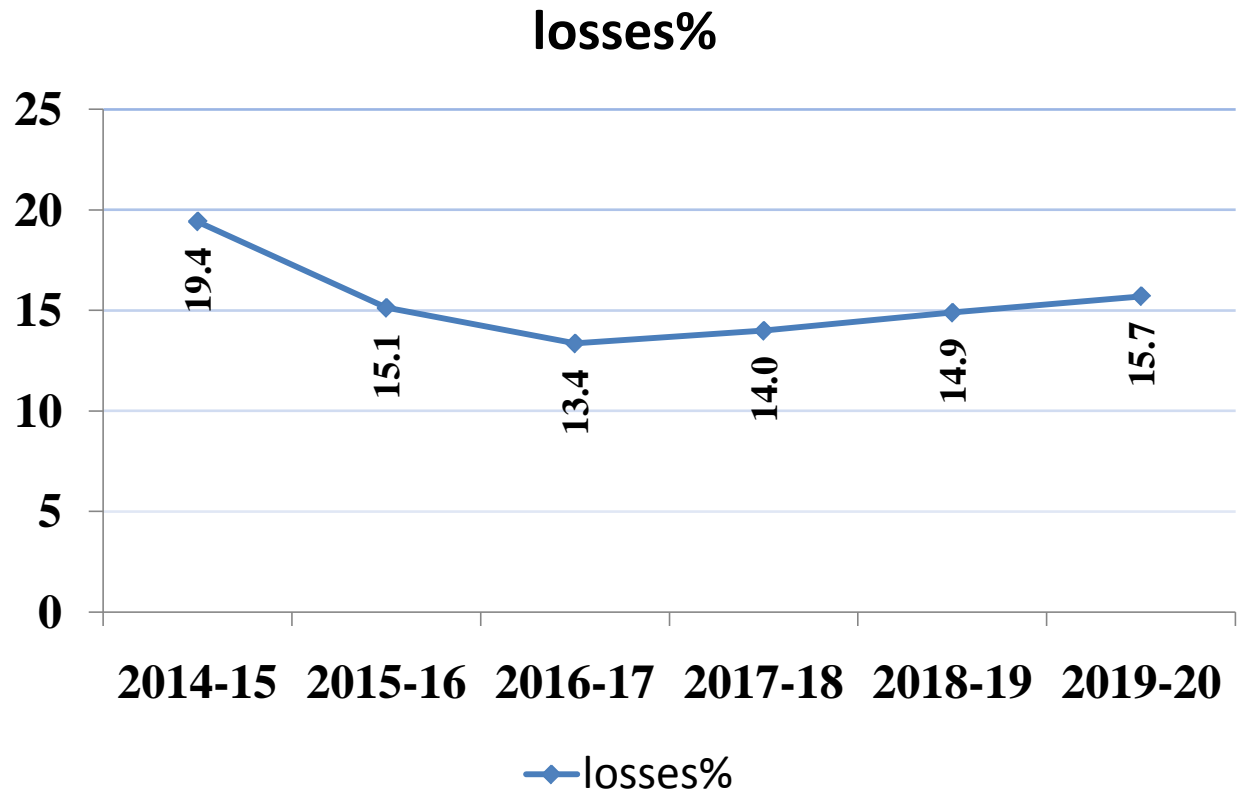
Peak Load

Year	Peak load
2012	1796
2013	1969
2014	2232
2015	2497
2016	2802
2017	3189
2018	3586
2019	3798
2020	3891



Losses

Year	Losses%
2014-15	19.41
2015-16	15.12
2016-17	13.35
2017-18	13.98
2018-19	14.88
2019-20	15.7



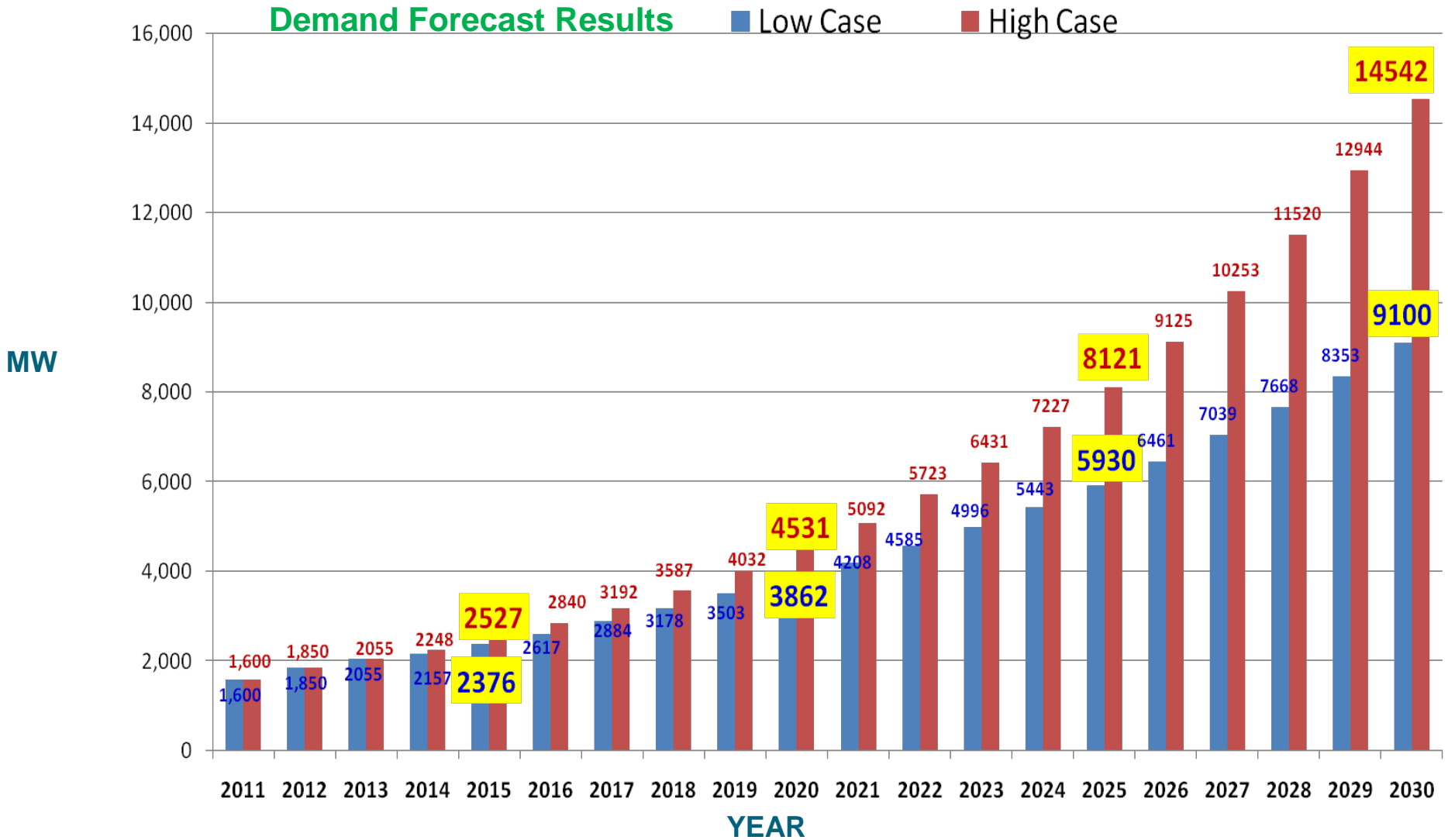
Under Construction Power Projects

Sr. No.	Project	MW
Hydro		
1	Shweli(3)	672
2	Deedoke	60
3	Upper Yeywa	280
4	Middle Paunglaung	152
5	Upper Kyaingtaung	51
6	Upper Beluchaung	30.4
7	Thahtay	111
Sr. No.	Project	MW
Gas/LNG		
1	Kyauk Phyu	150
2	Shwe Taung	Ph I, 28 + Ph II, 70
Solar		
1	Minbu	170 (40 MW in operation)

Under Construction Transmission lines and Substations

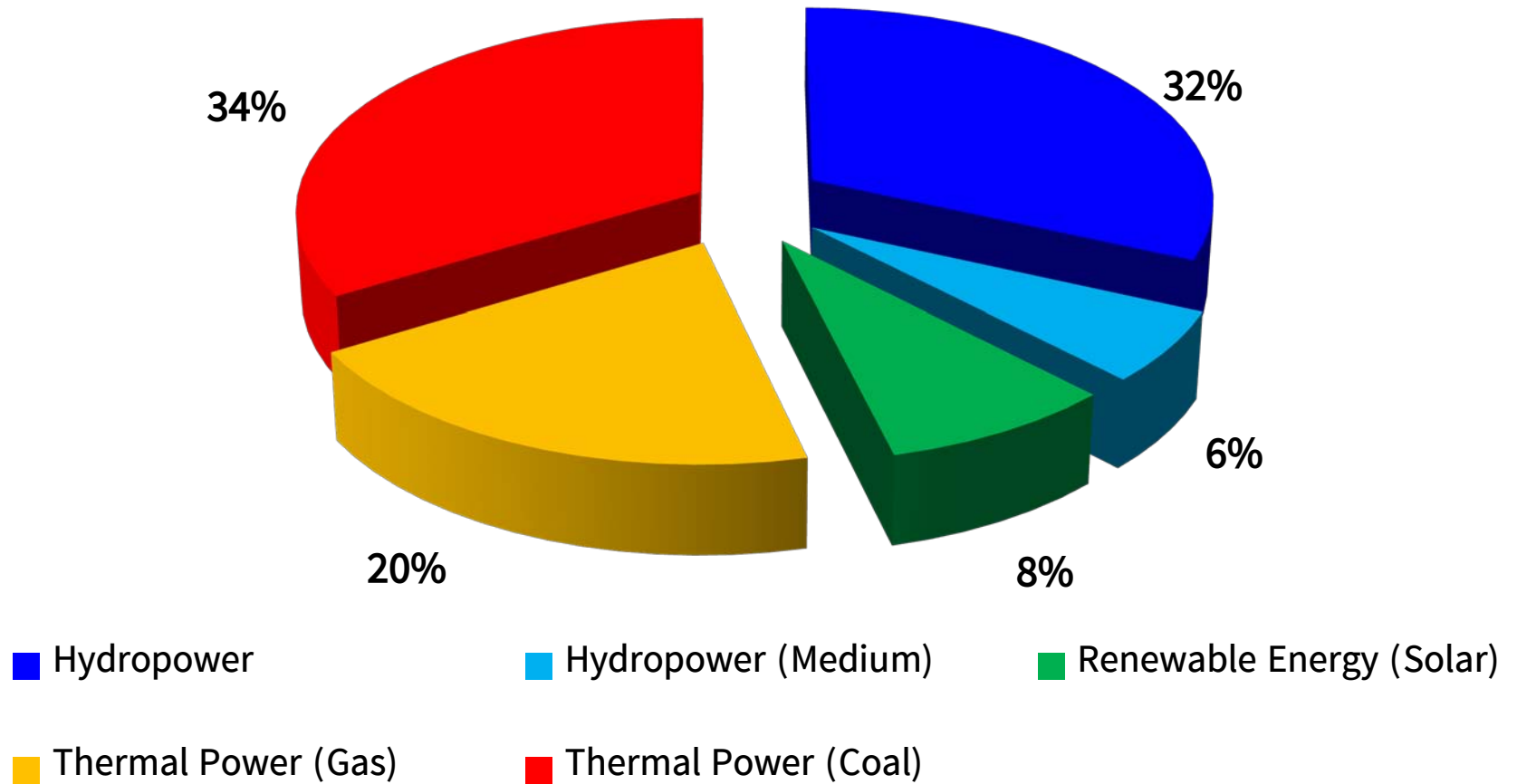
kV	Line		Substation	
	No.	km	No.	MVA
500	3	505.9	4	4000
230	6	190.3	4	500
132	0	0	0	0
66	2	88.1	1	5
Total	11	784.3	9	4505

Demand Forecast up to 2030



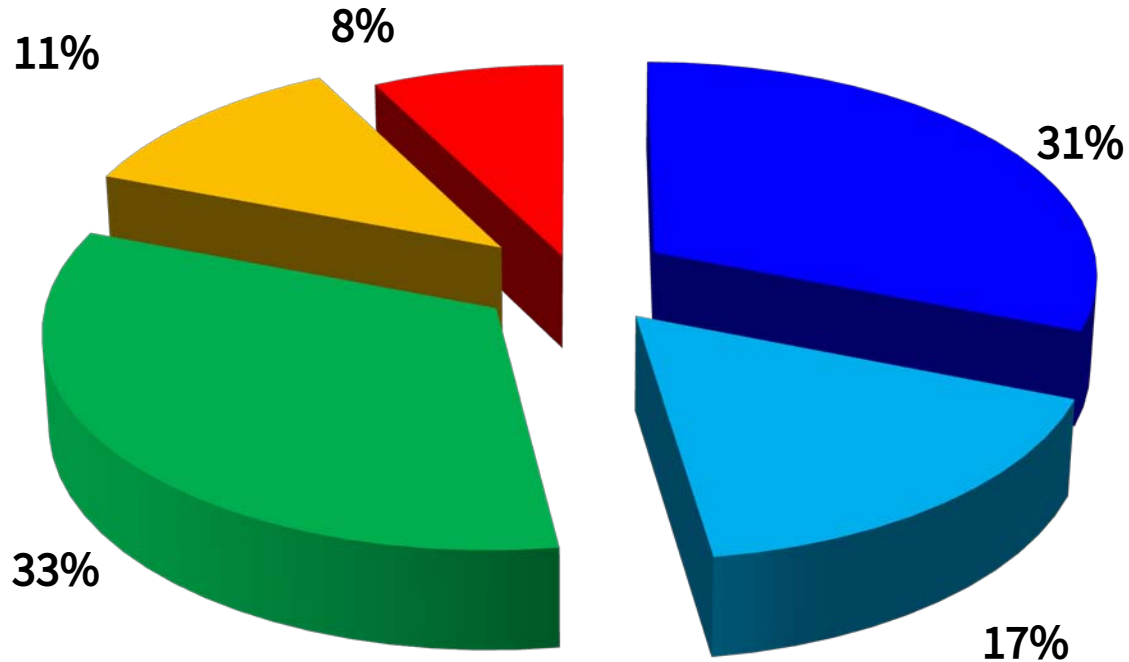
National Electricity Master Plan

23,594 MW



Reduction in CO2, Climate change, along with COVID-19

18,329 MW



■ Hydropower

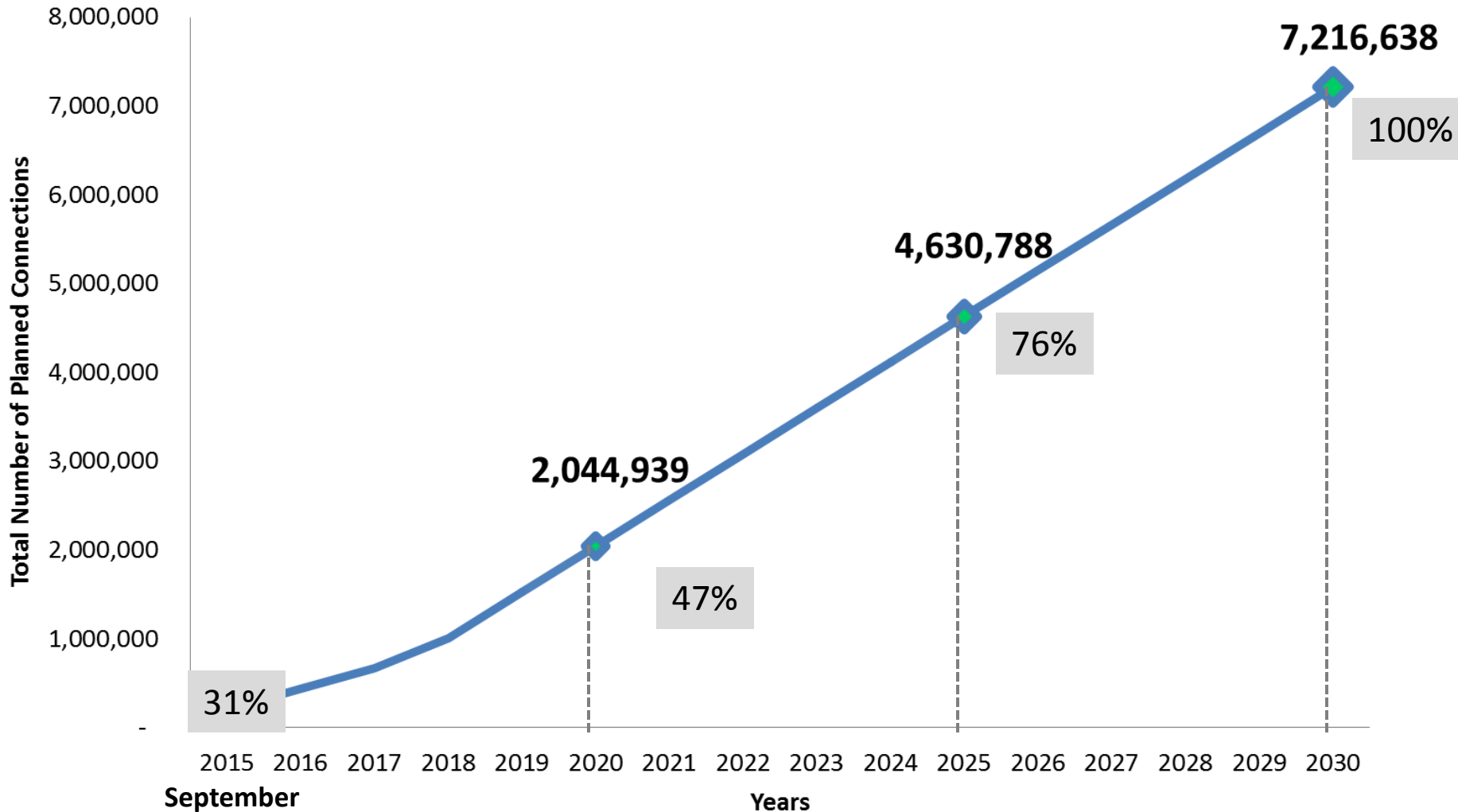
■ Renewable Energy (Other)

■ Thermal Power (Gas)

■ Thermal Power (Coal)

■ Interconnection

National Electrification Plan Up to 2030



Key Opportunities for Investments in Power Sector

- Construction of medium-scale hydro and gas-fired power plants in **Public-Private-Partnerships**
- Investments into the transmission system
- Realization of **small –scale hydro-power projects** (e.g. to supply a village tract)
- Establishment of **solar energy farms and wind power farms**
Provision of efficient and practical solar-power kits to communities currently off-grid as well as of solar-power based solutions (e.g. solar-powered pumps, solar lighting)
- **Upgrading of the current power infrastructure** in urban centers and industrial zones



Thank you for your attention!