COUNTRY PRESENTATION

(People's Republic of China)

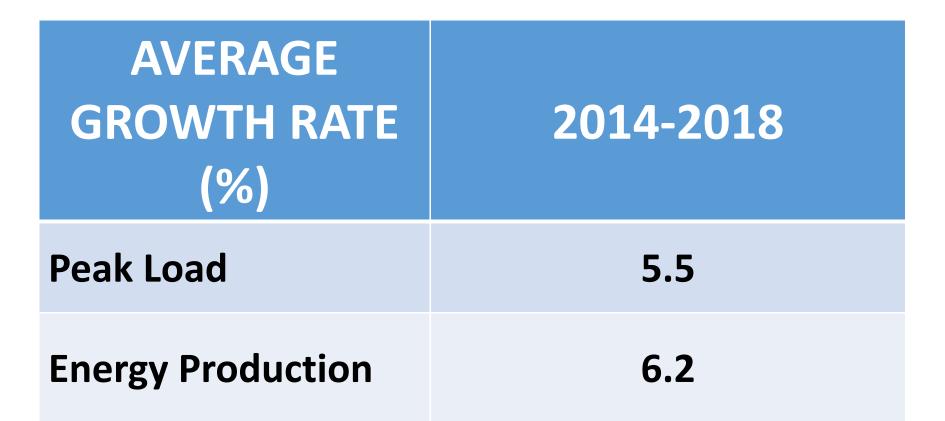
RPTCC-25 21-22 Mar 2019 Bankok, Thailand

MACRO INDICATORS (CSG range)

INDEX	2017	2018	
Total GDP (US\$)	12243 Billion		
GDP per capita (US\$)	8582.9	will be offcially	
GDP growth rate (%)	6.9	published by the end of May	
Per capita electricity consumption (KWh/person)	4583		

COUNTRY'S POWER SYSTEM

ENERGY PRODUCTION



GENERATING CAPACITY, in MW

Sources	2017	2018
Hydro	102600	105997
Thermal	133879	137379
Gas-fired thermal	16846	20485
Coal-fired thermal	117033	116894
Oil-fired thermal	-	-
Combined-Cycle	-	-
Import/export	-	-
Nuclear	13936	16772
Renewables Others (Wind +Solary)	32299	30142
Total	282712	302302

TRANSMISSION CAPACITY, as of 31 Dec 2018

Voltage	Subst	Transmission	
Level	Number	MVA	(Circuit-km)
EHV (800 kV)	3/6(HVDC) 0(AC)	3/15000 0(AC)	3/4707 0(AC)
EHV (400 kV or 500 kV)	7/13(HVDC) 125	7/2040(HVDC) 294/252274	7/7163(HVDC) 584/45805
HV (220 – 230 kV)	976	2104/359536	2968/79906
Medium Voltage (132 – 66 kV)	3254	6069/353375	7620/100163

POWER LOSSES (LAST TWO YEARS)

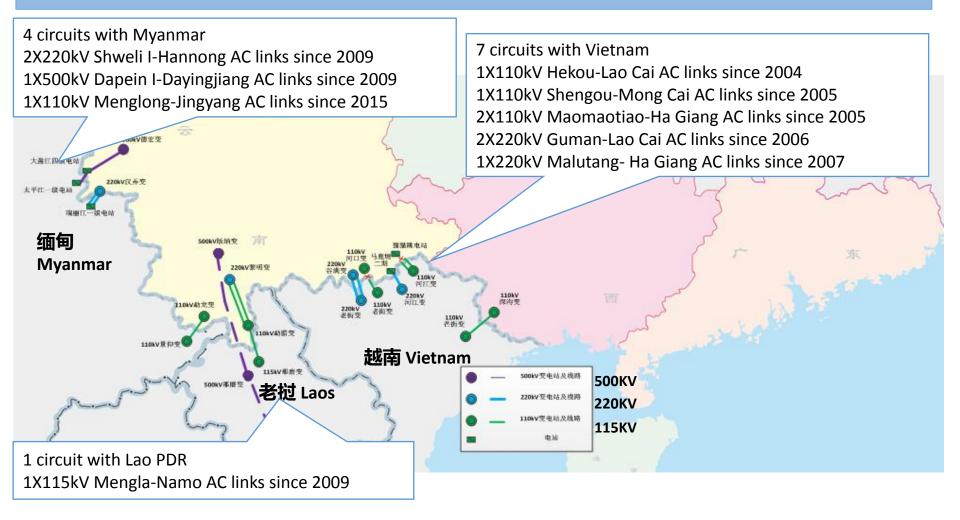
INDEX	2017	2018
TOTAL LOSS (%)	6.52	6.31

COUNTRY'S INTERCONNECTION PROJECTS

INDICATE CURRENT INTERCONNECTION

Adjacent to GMS countries, CSG has **12 AC cross-border lines** with Laos, Myanmar and

Vietnam.



STATUS OF POWER TRADE

No.	Name of Interconnection	Voltage,	2017		2018		Import/
(from – to)	kV	GWh	MW	GWh	MW	Export	
1	China-Vietnam	220kV 110kV	1321	578	1722	532	Export
2	China- Lao	110kV	48	33	0	0	Export

Renewable Energy Production updates

Renewable Energy Production (MWh)	2017	2018	
Hydro	35349	37689	
Wind	3386	3926	
Solar	513	805	
Total (Ratio)	39248 (40.9%)	42420 (40.7%)	

Policy and regulatory updates

■No policy with regard to tariff was updated in 2018;

■Update in CSG power market progress:

- contract path method for inter-province transmission; postage stamp method for provincial transmission;
- Power Exchange centres have been set up in each province in CSG; There are altogether 35 Power Exchange Centers (2 inter-provincial PX and 33 provincial PX) in China;
- Generation trade in market greatly increased last year, over 30% year-on-year growth;
- Spot Market has been put into trial operation in 3 provinces (Guangdong, Gansu and Shanxi).

MOUs that CSG signed with foreign cooperators since 2018

• NO UPDATE