

Hydropower ,Large Dams and Reservoirs in China

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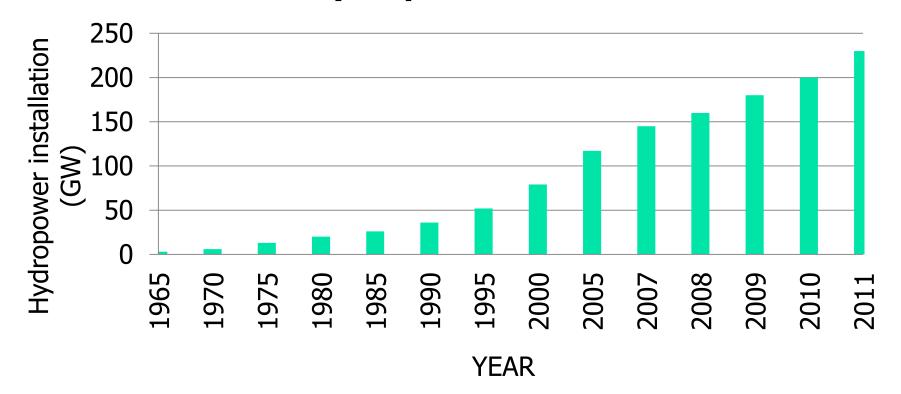
- ◆Technically developable capacity of 694 GW
- ◆Annual power generation of 608 TWh
- ◆13 Hydropower Bases Planned





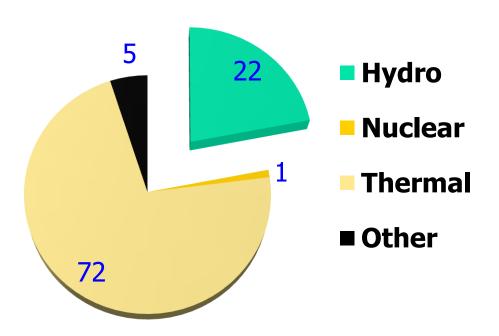
Hydropower installation exceed 200GW in 2010

Hydropower installation

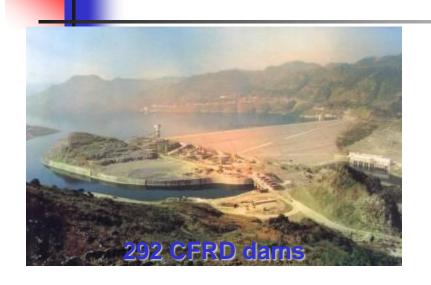


The electricity generation in China(2011)

Hydro 22% ,Nuclear 1%, Thermal 72%,other 5%



6,280 dams higher than 30m are completed or under construction in China











6,280 dams in China

Calssification	Height					
	30-60m	60-100m		150- 200m	≥200m	To sum
Gravity dam	527	88	19	3	0	637
RCC dam	38	36	21	3	2	100
Arch dam	802	120	15	6	7	950
RCC arch dam	9	21	15	1	0	46
Earth dam	3387	99	5	0	0	3491
Rockfill dam	284	44	20	2	2	352
Concrete faced rockfill dam	116	112	47	14	3	292
Other	364	13	1	0	0	378
To sum	5557	535	145	29	14	6280

The highest arch concrete dams in China **Yalong River** Jinping- I 3,600MW 凍定县 雅江县 Jinping- II 4,800MW Guandi 西昌市 2,400MW **Ertan** 业源县 3,300MW Tongzilin 600MW

Jinping- I Dam - Key features



Jinping Dam Concrete Progress – Oct ,2012(Downstream View)



The highest completed RCC dam in China





The highest completed concrete faced rockfill dam in China

Project : Shuibuya

Height: 233m

Installed Power: 1,840 MW

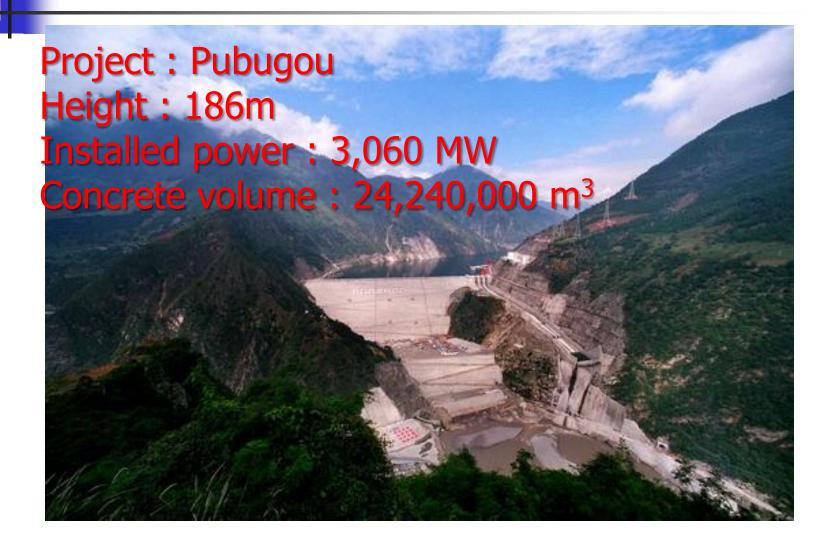
Rockfill Volume: 16,000,000 m³



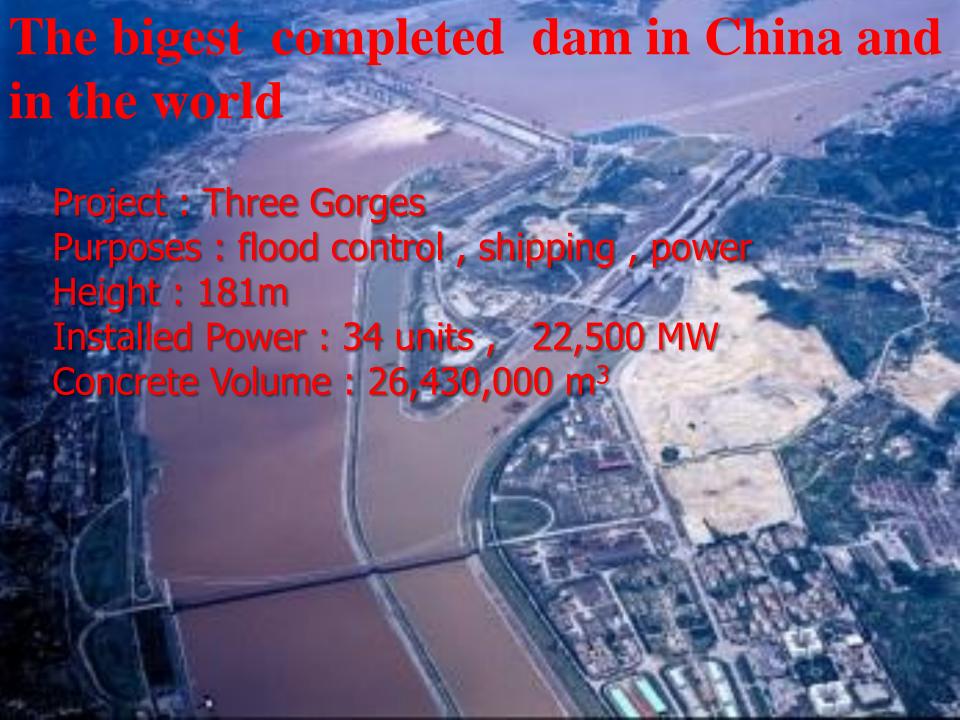
Shuibuya dam completed in 2008



The highest completed rockfill dam with clay core in China









The Three Gorges dam is experienced by the highest peak of 71,200 m³/s flood in July 25,2012.





Hydropower installation will exceed 350GW in China in 2020, and carry out energy-saving and emission-reduction.



Thank you for your attention!

