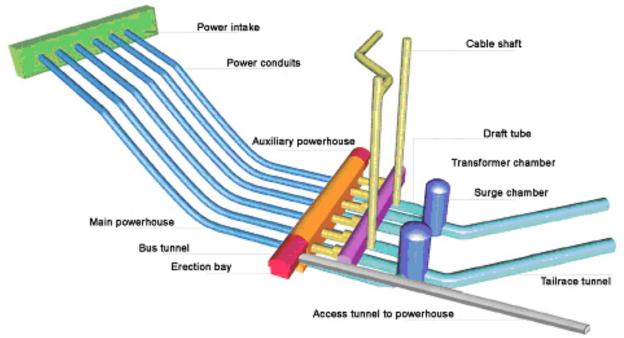
Jinping



Bird's view of Jinping-I Hydropower Project



Bird's view of Jinping-II Project



Underground powerhouse of Jinping- I



Underground powerhouse of Jinping-II

The Jinping River Bend on the Yalong is one of China's three famous river bends. The length of bend is 150 km along the river course, but the minimum distance at its neck points is only 16 km, yet it creates a drop of 310 m. Two projects have been planned - Jinping-I, which has a high dam, and Jinping-II, which uses a long headrace tunnel. The 305 m double-curvature thin arch dam in Jinping-I is the highest in the world among the dams completed, under construction or in the design process. Jinping-II has a large underground complex. Its 16.6 km headrace tunnel is longest one in China; its maximum overburden of 2,525 m surpasses the word-famous Simplon road tunnel (maximum overburden 2,135 m), and is close to a headrace tunnel in France which has the highest overburden (2,619 m). The total installed capacity of Jinping is 8,400 MW, out of which Jinping-I is 3,600 MW and Jinping-II is 4,800 MW.

Main features

Jinping-I			
Project Location	On the Yalong River, Sichuan	Main Dam	
	Province, P. R. China	Туре	Double-curvature Arch Dam
Project Purpose	Hydroelectric Power Generation	Height	305 m
Years of Construction	2003-2014	Crest Length	568.6 m
Catchment and Reservoir		Escape Works (No./ Discharge Capacity)	
Catchment Area	10,2560 km ²	Crest Outlet	4 / 2,993 m ³ /s
Mean Annual Runoff	$1,220 \text{ m}^{3}/\text{s}$	Bottom Outlet	5 / 5,465 m ³ /s
Reservoir Area at FSL	82.55 km ²	Flood	1 / 3,651 m ³ /s
Storage at FSL	7,760 million m ³	Discharging	
Active Storage	4,910 million m ³	Tunnel	
Power plant		Main Construction Volumes	
Installed Capacity	3,600 MW	Concrete	$7,424,700 \text{ m}^3$
No. and Capacity of	6×600 MW	Excavation	18,538,900 m ³
Units		Project Developers	
Power Conduits	6 steel embedded in concrete	Owner	Ertan Hydropower Development
	I.D.=9.5 m		Company, Ltd.
Type of Turbine	Francis	Designer	CHIDI
Jinping-II			
Project Location	On the Yalong River, Sichuan	Water Retaining Structure	
	Province, P. R. China	Туре	Sluice dam
Project Purpose	Hydroelectric Power Generation	Height	37 m
Years of Construction	2003-2016	Length	162 m
Catchment and Reservoir		Discharge Works	Broad Crested Weir
Catchment Area	$10,2663 \text{ km}^2$	Headrace Tunnel	4 / 11.0m / 16.593 km
Mean Annual Runoff	$1,220 \text{ m}^{3}/\text{s}$	(No./Dia./Length)	
Storage at FSL	14.28 million m^3	Main Construction Volumes	
Active Storage	5.02 million m^3	Concrete	$2,389,300 \text{ m}^3$
Power plant		Excavation	13,794,500 m ³
Installed Capacity	4,400 MW	Project Developers	S
No. and Capacity of	8×550 MW	Owner	Ertan Hydropower Development
Units			Company, Ltd.
Power Conduits	8 I.D.=7.0(V)/6.0(H) m	Designer	ECIDI
Type of Turbine	Francis		