Eastmain-1-A Powerhouse

Eastmain-1-A powerhouse

Development
Some Facts and Figures

General
Type of powerhouse
Surface with reservoir
Powerhouse length
134.5 m
Powerhouse width
37.2 m
Total installed capacity
768 MW
Annual output
2.3 TWh/year, equal to the annual consumption of more than 135,000 homes

Construction
2007–2012
Number of workers on site at peak of construction
1,200 (summer 2009 and summer 2010)
Number of people to have worked on site since the beginning of construction
More than 6,800 people

Penstocks
Head
63 m
Total length
144 m
Length (armoured segment)
9.4 m
Diameter (armoured segment)
8.7 m

Intake
Height
37.9 m
Length
79.1 m

Generating units
Type of unit
Francis (vertical axis)
Number of units
3
Design flow
1,344 m³/s or 448 m³/s per unit
Rotor diameter
12.96 m
Size of the Francis runner
6.8 m (diameter) 4.3 m (height)