

# Piccolo idroelettrico da 24,00 MW con 3 turbine Francis





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Il Brasile è il secondo produttore mondiale di energia idroelettrica per capacità installata e possiede la maggiore capacità idroelettrica installata in Sud America, con il 60% della capacità totale del continente.

Il grande idroelettrico rimane la principale fonte di approvvigionamento elettrico, mentre l'eolico e il solare rappresentano circa l'11%.

La centrale si trova nel comune di Rio dos Cedros, nello stato di Santa Catarina, in Brasile.

Punti chiave

Studi energetici Progetto Greenfield

Capacità installata = 24,00 MW

Potenza media (media Q) = 11,83 MW medi

Fattore di capacità = 0.4929

Dati Tecnici

Parametri

24MW HPP

Potenza nominale installata

3 x 8,00 MW

Tipo turbina

Francis Simples

N. di macchine

3

Immissione totale

3 x 6,07 m³/s

Immissione unità

6,07 m³/s

Immissione minima

3,03 m³/s

Flusso sanitario

1,75 m³/s

Portata di consumo

0,00 m³/s

Rendimento della turbina

92,00%

Rendimento del generatore

95,00%

Fattore di potenza del generatore

0,9

Serie di portata

10/1935-06/2019

GROSS REVENUE

TBA

EBITDA

TBA

BUSINESS TYPE

Centrali Elettriche, Centrali Elettriche

COUNTRY

Brasile

BUSINESS ID

L#20230487

Importo n. a.

271,00 m

N. A. a valle

115,32 m

Perdita lorda nominale

155,68 m

Perdita di carico nominale

4,04 m

Calo nominale netto

151,64 m

Indisponibilità programmata

2,50%

Consumo domestico

75 kW

Perdite nel collegamento elettrico

0,90%

Garanzia fisica

11,83 Mwmédios

Fattore di capacità(GF)

49,29%

Finanziario (previsione)

Produzione annua di energia = 103.630. 80 MWh / Anno (19.672,656 EUR / 21.405,515 USD)

Tariffa energetica per MW = R\$ 275,00 / MWh (52,19 EUR / 56,80 USD)

Generazione di cassa lorda annuale = 28.498.470,00 R\$ (5.407.957,36 EUR / 5.888.134 USD))

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