

Hidroeléctrica pequeña de 24.00 MW con turbina Francis 3x





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Brasil es el segundo mayor productor de energía hidroeléctrica del mundo por capacidad instalada y tiene la mayor capacidad hidroeléctrica instalada en América del Sur, con el 60 por ciento de la capacidad total del continente.

La gran energía hidroeléctrica sigue siendo la principal fuente de suministro de electricidad, y la energía eólica y solar representan alrededor del 11 por ciento.

Esta Usina está ubicada en el municipio de Rio dos Cedros, en el estado de Santa Catarina, Brasil.

Puntos clave

Proyecto Greenfield de Estudios Energéticos
Capacidad Instalada = 24,00 MW
Potencia media (Q media) = 11,83 MW media
Factor de capacidad = 0,4929

Datos técnicos

GROSS REVENUE
\$0

EBITDA
\$0

BUSINESS TYPE
Planta de energía

COUNTRY
Brasil

BUSINESS ID
L#20230487

Parámetros	24MW HPP
Potencia nominal instalada	3 x 8,00 MW
Tipo de turbina	Francis Simples
Nº de máquinas	3
Total swallowing	3 x 6,07 m³/s
Unit swallowing	6,07 m³/s
Minimal swallowing	3,03 m³/s
Caudal sanitario	1,75 m³/s
Caudal de uso consuntivo	0,00 m³/s
Rendimiento de la turbina	92,00%
Rendimiento del generador	95,00%
Factor de potencia del generador	0,9
Serie de caudales	10/1935-06/2019
Cantidad nm. a.	271,00 m
N. A. aguas abajo	115,32 m
Pérdida bruta nominal	155,68 m
Pérdida de carga nominal	4,04 m
Caída neta nominal	151,64 m
Indisponibilidad programada	2,50%
Consumo doméstico	75 kW
Pérdidas en la conexión eléctrica	0,90%
Garantía Física	11,83 Mw
Factor de capacidad (GF)	49,29%

Financiero (pronóstico)

Producción Anual de Energía = 103.630. 80 MWh / Año (19.672.656 EUR / 21.405.515 USD)

Tarifa de Energía por MW = R\$ 275,00 / MWh (52,19 EUR / 56,80 USD)

Generación Bruta de Caja Anual = R\$ 28.498.470,00 (5.407.957,36 EUR / 5.888.134 USD)

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