

Petite centrale hydroélectrique de 24,00 MW avec 3 turbines Francis





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Le Brésil est le deuxième plus grand producteur hydroélectrique au monde en termes de capacité installée et possède la plus grande capacité hydroélectrique installée en Amérique du Sud, avec 60 % de la capacité totale du continent.

Les grandes centrales hydroélectriques restent la principale source d'approvisionnement en électricité, l'éolien et le solaire représentant environ 11 %.

Cette centrale électrique est située dans la municipalité de Rio dos Cedros, dans l'État de Santa Catarina, au Brésil.

Points clés

Projet Greenfield d'études énergétiques
Capacité installée = 24,00 MW
Puissance moyenne (Q moyenne) = 11,83 MW moyenne
Facteur de capacité = 0,4929

Données techniques

Paramètres 24MW HPP
Puissance nominale installée 3 x 8,00 MW
Type de turbine Francis Simples
Nombre de machines 3
Déglutition totale 3 x 6,07 m³/s
Unité avalant 6,07 m³/s
Déglutition minimale 3,03 m³/s
Débit sanitaire 1,75 m³/s
Débit d'utilisation consommatrice 0,00 m³/s
Rendement turbine 92,00%
Rendement du générateur 95,00%
Facteur de puissance du générateur 0,9
Débit série 10/1935-06/2019
Montant n. un. 271,00 m
N. A. aval 115,32 m
Perte brute nominale 155,68 m
Perte de charge nominale 4,04 m
Chute nette nominale 151,64 m
Indisponibilité programmée 2,50%
Consommation domestique 75 kW
Pertes dans la connexion électrique 0,90%
Garantie Physique 11,83 Mw médios
Facteur de capacité (GF) 49,29%
Prévisions financières)

Production d'énergie annuelle = 103 630. 80 MWh / an (19.672.656 EUR / 21.405.515 USD)

Tarif énergétique par MW = R\$ 275,00 / MWh (52,19 EUR / 56,80 USD)

Génération de trésorerie brute annuelle = R\$ 28 498 470,00 (5 407 957,36 EUR / 5 888 134 USD)

GROSS REVENUE

TBA

EBITDA

TBA

BUSINESS TYPE

Centrale Électrique, Centrale Électrique

COUNTRY

Brésil

BUSINESS ID

L#20230487

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