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

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

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 Mwmédios
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
$0

EBITDA
$0

BUSINESS TYPE
Renewable Energy

COUNTRY
Brésil

BUSINESS ID
L#20230487

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