

24,00 MW

Kleinwasserkraft mit 3x  
Francis-Turbine



## 24,00 MW Kleinwasserkraft mit 3x Francis-Turbine

Brasilien ist gemessen an der installierten Kapazität der zweitgrößte Wasserkrafterzeuger der Welt und verfügt mit 60 Prozent der Gesamtkapazität des Kontinents über die größte installierte Wasserkraftkapazität in Südamerika.

Große Wasserkraft ist nach wie vor die wichtigste Quelle für die Stromversorgung, während Wind- und Sonnenenergie etwa 11 Prozent ausmachen.

Dieses Kraftwerk befindet sich in der Gemeinde Rio dos Cedros, im Bundesstaat Santa Catarina, Brasilien.

### Keypoints

Energiestudien Greenfield-Projekt  
Installierte Kapazität = 24,00 MW  
Durchschnittliche Leistung (Q-Durchschnitt) = 11,83 MW Durchschnitt  
Kapazitätsfaktor = 0,4929

### Technische Daten

#### GROSS REVENUE

\$ 0

#### EBITDA

\$ 0

#### BUSINESS TYPE

Kraftwerke

#### COUNTRY

Brasilien

#### BUSINESS ID

L#20230487

|  |                 |
|--|-----------------|
| Parameter                                  | 24MW HPP        |
| Installierte Nennleistung                  | 3 x 8,00 MW     |
| Typ der Turbine                            | Francis Simples |
| Nein. von Maschinen                        | 3               |
| Schlucken insgesamt                        | 3 x 6,07 m³/s   |
| Einheit Schlucken                          | 6,07 m³/s       |
| Minimales Schlucken                        | 3,03 m³/s       |
| Sanitärer Fluss                            | 1,75 m³/s       |
| Durchflussmenge der verbrauchenden Nutzung | 0,00 m³/s       |
| Ertrag der Turbine                         | 92,00%          |
| Generator Ertrag                           | 95,00%          |
| Leistungsfaktor des Generators             | 0,9             |
| Durchflussmenge Serie                      | 10/1935-06/2019 |
| Betrag n. a.                               | 271,00 m        |
| N. A. stromabwärts                         | 115,32 m        |
| Nominaler Bruttoverlust                    | 155,68 m        |
| Nennlastverlust                            | 4,04 m          |
| Nominaler Nettorückgang                    | 151,64 m        |
| Geplante Nichtverfügbarkeit                | 2,50%           |
| Inländischer Verbrauch                     | 75 kW           |
| Verluste in der elektrischen Verbindung    | 0,90%           |
| Physische Garantie                         | 11,83 Mwmédios  |
| Kapazitätsfaktor (GF)                      | 49,29%          |

#### Finanziell (Prognose)

Jährliche Energieproduktion = 103.630. 80 MWh / Jahr (19.672.656 EUR / 21.405.515 USD)

Energiepreis pro MW = R\$ 275,00 / MWh (52,19 EUR / 56,80 USD)

Jährliche Bruttoeinnahmen = 28.498.470,00 R\$ (5.407.957,36 EUR / 5.888.134 USD)

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