

246,6 kW Usina hidrelétrica pequena de Senkelbach



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A Alemanha é um dos líderes da Europa na transição para a energia renovável. Nas últimas duas décadas, o país transformou fundamentalmente seu sistema de energia por meio da Energiewende (transição energética), uma estratégia nacional que visa reduzir as emissões de carbono, eliminar gradualmente a energia nuclear e substituir os combustíveis fósseis por fontes de energia limpa.

Atualmente, a energia renovável é responsável por mais da metade da geração de eletricidade da Alemanha, com a energia eólica e solar formando a espinha dorsal do sistema. Os parques eólicos terrestres e marítimos representam a maior parte da eletricidade renovável, especialmente no norte da Alemanha, enquanto a energia solar tem se expandido rapidamente em todo o país, apoiada por fortes incentivos políticos e pela queda dos custos da tecnologia. A biomassa e a energia hidrelétrica fornecem contribuições estáveis adicionais, ajudando a equilibrar o fornecimento.

A Alemanha estabeleceu metas ambiciosas, com o objetivo de alcançar cerca de 80% de eletricidade renovável até 2030 e atingir a neutralidade climática até 2045. Para apoiar essas metas, o governo continua a investir na expansão da rede, no armazenamento de baterias, na infraestrutura de hidrogênio e no licenciamento mais rápido de projetos renováveis.

Dados principais

Item	Detalhes
Usina de energia	Usina hidrelétrica de XXXXXXX
Região	XXXXXXX, Bavária
Rio	XXXXXXX, Augsburg Canal
Área de captação	Desviado do rio XXXXXXX
Taxa de fluxo média	13 m ³ /s
Uso de água permitido	Direito existente de usar uma taxa de fluxo máxima de 18 m ³ /s
Cabeça média	1,65 m (média)
Produção total da fábrica	246,6 kW
Turbinas	Turbina Kaplan (Watec) – 136,6 kW Turbina Francis (Meier-Brackwede) – 110 kW
Geradores	Emit 145 kW (Watec) Schorch 110 kW (Meier-Brackwede)
Transformador	0,4 / 10 kV
Conexão com a rede	Rede de média tensão da Augsburg Municipal Utilities
Estação de transferência	Localizado na propriedade da Manroland
Área da propriedade	Faixas de terra nas margens esquerda e direita ao longo do canal; inclui aprox. 200 m ² de bueiro e casa do gerador
Acesso	Direito de passagem permanente para acesso à usina de energia
Descrição do projeto	Usina hidrelétrica de Senkelbach
Comissionamento	Fevereiro de 2016
Produção média anual	1,1-1,3 milhão de kWh/ano

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TARGET PRICE

\$ 2,800,000

GROSS REVENUE

\$ 136,500

EBITDA

\$ 100,000

BUSINESS TYPE

Energia renovável

COUNTRY

Alemanha

BUSINESS ID

L#20260981

Item	Detalhes
Produção (julho de 2024 – junho de 2025)	996.852 kWh
Tarifa de alimentação	12,4 centavos de dólar/kWh
Termo EEG	Válido até 2036 (prorrogação possível devido ao novo sistema de controle)

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