

What is organic Rankine cycle technology?

Organic Rankine cycle technology In order to limit global warming to a maximum of 1.5 °C, even more rapid and holistic changes of the global energy system become inevitable.

What is organic Rankine cycle (ORC)?

In this context, the Organic Rankine Cycle (ORC) is a key technology for exploiting these low to medium temperature renewable and sustainable energy sources. As discussed in detail by Macchi , the ORC outperforms both gas cycles and water/steam cycles at rather low heat source temperatures and small to medium plant sizes.

Is waste heat recovery an emerging application for Organic Rankine cycle (ORC) installations?

Waste heat recovery from industry is an emerging application for ORC installations. This work presents an up-to-date overview on the recent developments in the Organic Rankine Cycle (ORC) industry.

Why is hydroelectric power important in Switzerland?

The high proportion of energy generated through hydroelectric power and the lack of natural resources (such as coal and oil) help to explain why such a situation is strategically beneficial in Switzerland. In 2017, Swiss voters accepted the revised Energy Act, endorsing the implementation of the 2050 Energy Strategy, which principally aims to:

What is Switzerland's wind power potential?

Switzerland's wind power potential is several TWh per year. The 2050 Energy Strategy aims to increase production from wind energy to 4.3 TWh a year, this would generate around 7% of the country's electricity.

Which energy sources are most popular in Switzerland?

Hydroelectric power dominates, representing over 60% of Swiss energy, while solar power shows significant growth potential, outpacing other 'new' renewables. Notably, renewable energy predominantly powers electricity generation in Switzerland, comprising 80% of its usage.

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Rankine Energy Solutions Limited (Rankine) is duly registered with major players in the energy industry which enable us access to products at competitive prices. Our long term strategy is to become a major player in retail services, logistic/distribution, bulk storage, product importation and ultimately marine/shipping services.

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Switzerland ranks second in the World Energy Council's 2022 Trilemma Index, highlighting its effective management of energy security, energy equity, and environmental sustainability. It is a top performer in environmental sustainability, alongside Sweden and Norway, where low carbon sources represent over 95% of electricity generation.

Rankine Energy solutions Limited is a rapidly growing integrated Oil Marketing and Trading Company in Nigeria. Founded in 2015, and designed to redefine the meaning of petroleum trading and services delivery in the Nigerian Oil and Gas downstream sector.

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In this study, a Reheat Organic Rankine Cycle (ORC) utilizing the cold energy of liquefied hydrogen (LH2) and liquefied natural gas (LNG) was proposed, and its performance was evaluated by comparing it with the base model, which ...

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