

Thassalia, France's first marine geothermal power plant

by FRANCOISE PETROS / 2017-06-01 19:03:43 / France / 13299 / FR



Year of commitment : 2016

CO2 Impact : réduction des émissions de gaz à effet de serre de près de 70%

Green energies : Marine energy, Geothermal, Cool, Heat

Digital services : Smart metering, Cloud data solutions, Water

Water cycle : Capture, Waterways, Other

Circular economy and waste management : Eco-Design, Industrial Ecology, Preservation of natural heritage



35 000 000 €

Builder

ENGIE - THASSALIA

Manager / Dealer

ENGIE - THASSALIA

GENERAL INFORMATION

In Marseille, a new solution has been developed to exploit the renewable energy present locally: the exploitation of calorific energy contained in the Mediterranean Sea.

Located on the Grand Maritime Port of Marseille (GPMM), the Thassalia marine geothermal power station is the first in France and Europe that uses marine thermal energy to supply hot and cold all the buildings connected to it - 500 000 m² by 2020 - while reducing the greenhouse gas emissions generated by 70%. It is through a three-kilometer network that the facilities will be able to supply the connected buildings with energy.

Progress Status

Delivered

Data Reliability

Assessor

Funding Type

Private

Website Enterprise / Infrastructure

<http://www.engie-cofely.fr/actualites/thassalia-1ere-centrale-francaise-de-geothermie-marine/>

Sustainable Development

Attractiveness :

500,000 m² of buildings supplied by the plant between 2015 and 2020

Well Being :

- Removing cold groups on the roofs of buildings
- Reduction of noise in buildings

Social Cohesion :

Beyond the economic and environmental aspects, this project also allows the creation of some 60 local jobs including a team of 30 people who will be dedicated to the daily activity of the plant.

Preservation / Environmental Improvement :

- Use of renewable marine energy
- 70% CO2 savings
- 70% of renewable energies

Resilience :

As a constant local resource, marine geothermal energy represents a sustainable energy solution that is particularly relevant to France with its 3,805 km of coastline. This project aims to serve as an example to be duplicated in other cities on the Mediterranean coast but also from France or elsewhere. Indeed, the potential of marine geothermal energy is unlimited. With more than 40% of the world's population living within 100 kilometers of the sea (2.4 billion inhabitants), marine geothermal energy is a response to the strong demographic demand.

Responsible use of resources :

Marine geothermal energy exploits the difference in temperature between hot surface water and cold water from the seabed, pumped by pipelines. On the coast, heat exchangers and heat pumps make it possible to produce, as needed, hot or cold. The water is then conveyed to the buildings for heating or cooling.

Testimony / Feedback

Governance

PATRICK BERARDI

Holder Type : Private Company

ENGIE - THASSALIA

Builder Type : Power producer

ENGIE - THASSALIA

Manager / Dealer Type : Private

This project meets the environmental requirements of Euroméditerranée and the expectations of all its partners including Euroméditerranée, the Regional Council of Provence-Alpes-Côte d'Azur, the General Council of the Bouches du Rhône, Marseille Provence metropolis, the city of Marseille and the organizations that support energy efficiency solutions: ADEME, and the European Regional Development Fund.

Business Model :

The project represents a total investment of 35 million euros, and has received funding from local authorities (region, department, city and metropolis), ADEME and the ERDF.

Sustainable Solutions

Marine geothermal

Description :

- Resources :
- Water management



 <https://particuliers.engie.fr/>

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Date Export : 20230414235537