DALKADA
Climate Technology

SOLAR IMPULSE
OUR CHALLENGE
1000
EFFICIENT SOLUTIONS

ATMOPURA

INSTALLATION EXAMPLES

1,000 liter-per-day capability

High-quality atmospheric H_2O production

Autonomous | Sustainable | Mobile | Multi-Purpose

POWERED BY **AQUATHEA**

ATMOPURA™ INSTALLATION EXAMPLES

1. Porquerolles 83400 France

Generator Model E5

Project Description

Porquerolles, an island in the Mediterranean belonging to the Hyères Islands archipelago, was the site of another installation of the E5 model generator. This project aimed to support the island's agricultural activities by providing a sustainable source of fresh water in a region with limited access to water resources.

Challenges Encountered

- **Ambient Humidity:** Humidity on the island can be high, especially in summer, affecting condensation and the generator's efficiency.
- **Accessibility:** Transporting the generator to an island presented unique challenges. Coordination with ferry services and special vehicles was necessary for the transport and assembly of the equipment.

Client Requirements

The client in Porquerolles needed a constant supply of water for high-value crops, such as vineyards and orchards. The E5 generator, with its capacity of 5000 liters per day, provided the necessary volume to meet these demands.

Installation Duration

The installation in Porquerolles took 12 weeks due to logistical complications and the need to ensure all system components functioned optimally in an island environment.

Complexity of Commissioning

Commissioning was more complex than at other sites due to the need to adjust the system to the island's specific conditions, such as air salinity and humidity fluctuations. Dalrada engineers implemented additional filtration systems to ensure the quality of the water produced.

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ATMOPURA™ INSTALLATION EXAMPLES

2 Antibes 06160 France

Generator AQ1

Project Description

In Antibes, a port city on the French Riviera, an AQ1 generator was installed on a port construction site. This generator had a production capacity of 1000 liters per day and was used to support water needs during construction operations.

Challenges Encountered

- **Ambient Humidity:** The proximity to the sea resulted in high humidity and salinity, complicating the generator's operation. Additional filters were installed to manage these conditions.

- **Accessibility:** Operating in an active port presented logistical challenges, requiring coordination with multiple entities to ensure uninterrupted installation.

Client Requirements

The client needed a reliable water supply for construction activities and to ensure worker welfare. The AQ1 generator was crucial for providing drinking water and for construction-related tasks.

Installation Duration

The installation in Antibes was completed in 9 weeks. Speed was essential to avoid delays in the ongoing construction project.

Complexity of Commissioning

Commissioning was complex due to the need to protect the generator from marine air salinity. Additional adjustments and tests were conducted to ensure optimal performance under these conditions.

ATMOPURA™ INSTALLATION EXAMPLES

3. Nyons 26110 France

Generator AQ075

Project Description

In Nyons, a town known for its olive production, an AQ075 model generator was installed on a farm. This generator had a production capacity of 750 liters per day and was intended to support the region's agricultural activities.

Challenges Encountered

- **Ambient Humidity:** The Nyons region has humidity variations that affect the generator's efficiency. Operating parameters were adjusted to optimize production.

- **Accessibility:** The rural location required planning for the transport and installation of the equipment.

Client Requirements

The client needed a consistent water supply for irrigating olive trees and other agricultural activities. The AQ075 generator's capacity of 750 liters per day was adequate for these needs.

Installation Duration

The installation in Nyons was completed in 8 weeks, one of the fastest projects thanks to prior preparation and local cooperation.

Complexity of Commissioning

Commissioning was straightforward due to Nyons' moderate climate conditions. However, adjustments were made to ensure efficient water production.

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4. BANDOL 83150 France

Generator Model E10

Project Description

In Bandol, a town in the Provence-Alpes-Côte d'Azur region, we installed an E10 model generator on a farm. This generator, with a production capacity of 10,000 liters per day, was essential for supporting local agriculture and wine production.

Challenges Encountered

- **Ambient Humidity:** Bandol, with its Mediterranean climate, has high humidity in summer, which affected the generator's efficiency. Adjustments were made to the condensation system to optimize production.

- **Accessibility:** The rural location required meticulous planning for the transport and installation of the equipment.

Client Requirements

The client required a large quantity of water for vineyard irrigation and other agricultural activities. The E10 model's extended capacity met these needs, enhancing efficiency and reducing dependence on external water sources.

Installation Duration

The installation in Bandol was completed in 11 weeks. It included setting up the generator and configuring automated irrigation systems integrated with the generator.

Complexity of Commissioning

Commissioning was relatively simple due to the existing agricultural infrastructure. However, the generator parameters had to be adjusted to maximize production under Bandol's specific climate conditions.

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ATMOPURA™ INSTALLATION EXAMPLES

5. Auron 06660

Generator Model AQ075

Project Description

In Auron, a ski resort located in the Alpes-Maritimes at an altitude of 1600 meters, an AQ075 model generator was installed for a mountain pilot operation. This generator, with a production capacity of 1000 liters per day, was designed to support high-altitude applications.

Challenges Encountered

- **Ambient Humidity:** : The high altitude and mountainous climate posed significant challenges for condensation and generator efficiency. Extreme temperature variations between day and night required constant adjustments to the generator's settings.

- **Accessibility:** Installation in a remote mountainous area required the use of off-road vehicles and, at times, even helicopters to transport components. Logistics were particularly challenging in winter when roads were often snowy or icy.

Client Requirements

The client needed a reliable water supply to support high-altitude agricultural activities and for worker consumption at the ski resort. The AQ075 generator's capacity of 1000 liters per day was sufficient to meet these needs, contributing to the self-sufficiency of the pilot operation.

Installation Duration

The installation in Auron took 13 weeks due to challenging weather conditions and logistical obstacles associated with the altitude. Each phase of the project was carefully planned to minimize interruptions and ensure smooth progress..

Complexity of Commissioning

Commissioning was extremely complex due to low temperatures and high altitude. Additional heating systems were installed to protect equipment from freezing. Rigorous tests were conducted to ensure the generator operated efficiently despite extreme environmental conditions. Our technicians made several adjustments and calibrations to optimize the generator's performance.

ATMOPURA™ INSTALLATION EXAMPLES

6. Îles du Salut, French Guiana

Generator Model E8

Project Description

On the Îles du Salut, located in French Guiana, an E8 model generator was installed at the CNES site in Kourou. This generator, with a production capacity of 8000 liters per day, was intended to supply water to the space center.

Challenges Encountered

- **Ambient Humidity:** The tropical climate of French Guiana has very high humidity, presenting significant challenges for condensation and generator efficiency. Additional dehumidification and filtration systems were installed to manage these conditions.

- **Accessibility:** The location of the Îles du Salut in French Guiana complicated installation logistics. Both maritime and air transport were required to bring the generator components to the island. Coordination with local authorities and transport services was crucial for the project's success.

Client Requirements

The CNES required a steady water supply to support its operations at the space site, including infrastructure, technical facilities, and personnel needs. The E8 generator's production capacity of 8000 liters per day effectively met these demands.

Installation Duration

The installation on the Îles du Salut took 12 weeks due to logistical challenges and tropical climate conditions. Careful preparation and efficient coordination allowed the project to stay on schedule despite the obstacles encountered.

Complexity of Commissioning

Commissioning was complicated by the need to adapt the generator to tropical conditions, particularly high humidity and heat. Additional monitoring and control systems were implemented to ensure continuous and reliable operation. AquaTethys engineers conducted multiple follow-up visits to adjust and optimize the generator's performance, ensuring stable and efficient water production.