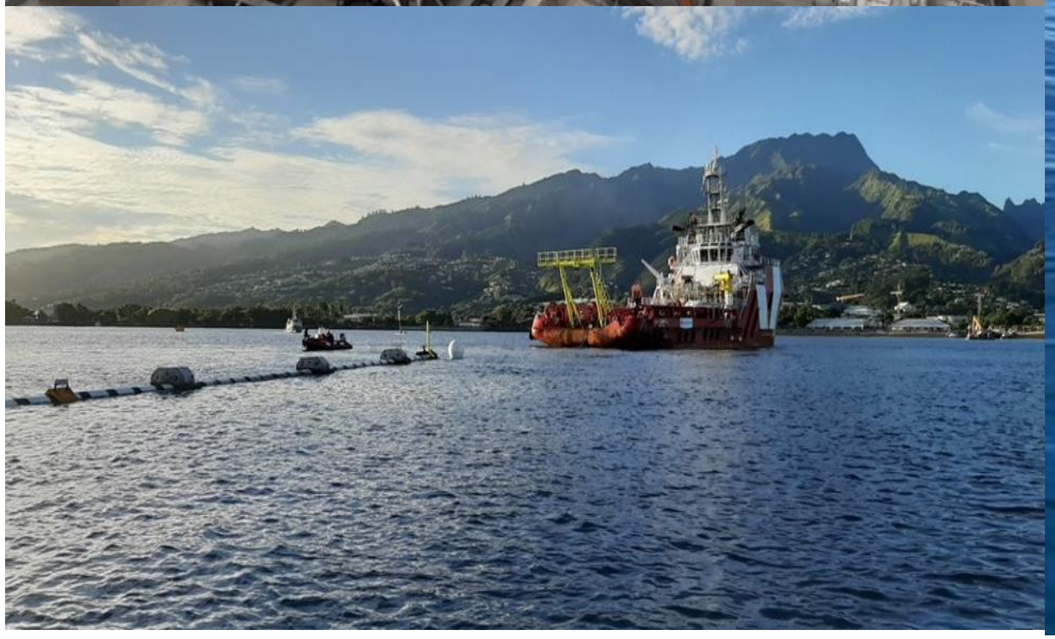
SEA WATER AIR CONDITIONING FOR TAHITI HOSPITAL

A SUCCESS STORY

17th October 2024

WORLD BANK



With 3 installations since 2005 in French Polynesia, the SWAC has proven to be a disruptive, reliable, and cost-effective technology for cooling in tropical areas.

KEYS FIGURES

PROJECT DETAILS

- **Commissioning**: 2022
- **Investment**: 30M USD (Public : EIB, AFD, Polynesian Gov)
- **Cooling Power:** 6MWc
- **Intake Pipe Diameter** : 710 mm (2.33 ft)
- **Intake Pipe Length**: 3585 meters (11762 ft)
- **Human Ressources**: 200 workers involved
- **Industrial Ressources**: 25 companies involved

TECHNICAL PERFORMANCE

- **CO2 Savings** : 15000 tons / yr
- **Electric Consumption**: - 12 GWH / yr (-90%)
- **Performance Coefficient** : 45 to 50 (vs 25 to 30 exp.)

FINANCIAL PERFORMANCE

- **Electric Cost Savings**: 3M USD / yr (-90%)
- **Loan interests** : 1.5M USD / yr over 20 yrs
- **Return:** cost covered over 10 yrs vs amortized over 20 yrs in model

Low Maintenance (divided by 10)

No Negative Impact on the Environment

Less Dependence on Fossil Fuels

Better Cooling Comfort

Low Carbon Footprint

High Reliability (3rd installation in Fr. Polynesia)

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THANK YOU