



Achieving sustainability excellence at Royal Phuket Marina

The Situation

Royal Phuket Marina, one of Thailand's largest marinas situated in Phuket, is a diverse complex featuring retail outlets, offices, residences, and a bustling boat harbor. Committed to sustainable practices, the marina's management embarked on a journey to enhance their environmental footprint and transition towards a more sustainable operation.

Royal Marina Phuket has been driving a number of sustainability initiatives as part of their long-term sustainability goals. To support Royal Phuket Marina's sustainability aspirations, Grundfos leveraged its expertise and the Grundfos Energy Earnings (GEE) project. An in-depth energy audit revealed that the client's existing chilled water pumps were no longer efficient.

The audit indicated that the chilled water pumps would benefit from an upgrade. The potential for energy savings through the replacement of the outdated chilled water pumps was significant.

The Solution

Grundfos proposed a modern solution that would improve Royal Marina Phuket's system reliability as well as reduce the operating cost. The upgrade would involve the installation of two LF Pumps coupled with IE3 motors.

"Our implemented digital solutions have paved the way for significant energy savings."

Lewis Brown
Regional Energy Optimization Specialist
Grundfos

GRUNDFOS 

Possibility in every drop



38%

Energy Reduction

CO₂

Emissions Savings

The Outcome

The result was transformative. The upgraded pumps not only boosted system reliability but also led to reduced operating costs, aligning seamlessly with the marina's sustainability initiatives.

The impact of Grundfos' intervention was profound:

- **38% Energy Reduction:** The new pumps facilitated an impressive 38% reduction in energy consumption compared to the previous system, a feat validated by thorough measurement and verification.
- **CO₂ Emissions Savings:** This heightened efficiency translated into an approximate annual reduction of 22,100 kg of CO₂ emissions.

Through Grundfos Energy Earnings (GEE), this case study exemplifies Grundfos' dedication to enabling partners like Royal Phuket Marina to achieve their sustainability objectives while simultaneously enhancing operational performance. By partnering with Grundfos, the marina has not only achieved impressive energy savings but has also taken significant strides towards a greener future.

Grundfos Supplied

Grundfos supplied two Grundfos LF Pumps coupled with IE3 motors

