

Case | Le Meridien Chiang Rai, Thailand

Energy saving without compromise of 5-star comfort



Explore the full story at [Grundfos.com/cases](https://www.grundfos.com/cases)

GRUNDFOS 

Possibility in every drop

The background

Le Meridien Chiang Rai Resort, is a luxurious 5-star hotel set in a prime location in the centre of Chiang Rai, Thailand. Local places of interest include Wat Phra That Doi Chom Thong. It has a three-level outdoor pool with views of the Mae Kok River and 160 well appointed airconditioned rooms.

Like most world-class hotels and resorts, Le Meridien Chiang Rai Resort has also

been challenged by a rapid increase of energy cost. Grundfos offered a zero financial investment solution whereby the hotel could benefit from the energy savings without the need of any CAPEX outlay. Grundfos shares the realized savings together with the hotel to finance the solution installed.



Old installation of chiller pumps



New Grundfos saving energy pump

The solution

A complete system audit was carried out by the Grundfos service team. During the comprehensive system audit, we identified that the existing chiller pumps needed an upgrade due to the aging life cycle and as a result starting to lose operational efficiency. By upgrading the pumps, we enabled the chiller application to become more efficient. Based on the management approval, Grundfos

upgraded all 6 of the chiller pumps to a more efficient model that will provide energy savings as well as a cost reduction on maintenance.

The upgrade package implemented includes **6x high efficiency Grundfos LS Pumps** with IE3 motors, 6x New Magnetic Relays, and professional installation with commissioning by Grundfos.



The outcome

After the upgrade, the energy used was re-examined, and the result was a 35% energy reduction compared to the energy consumption of the previous pumps.

On the other hand, this upgrade also makes the chiller plantroom space upgraded with new, efficient and modern equipment. It should be noted, that a 35% energy reduction is equivalent to a reduction in electrical energy consumption of approximately 110,000 kWh per year, this is clearly a significant energy saving for Le Meridien.

Apart from reducing energy costs, this reduction in energy consumption also demonstrates their drive for sustainability and commitment to the Marriott 360 CSR targets. On the Grundfos side, it is a strategic project with the Marriott Group and a showcase how both of our innovative solutions combined with service offerings make a tangible difference.

Grundfos Holding A/S
Poul Due Jensens Vej 7
DK-8850 Bjerringbro
Tel: +45 87 50 14 00
www.grundfos.com

GRUNDFOS 