

# **Air Conditioning & Hot Water Solutions**

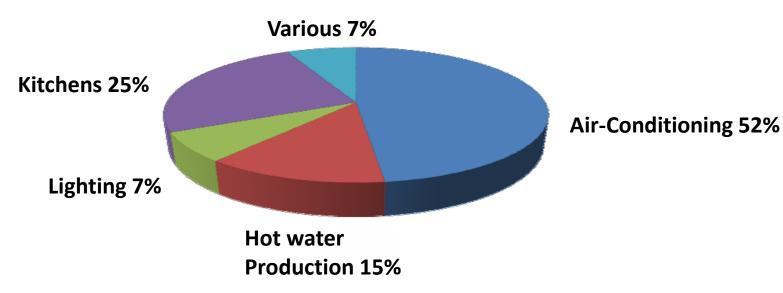
Energy Saving Case Studies from Hospitality Vertical market in Greece

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# **Main Hotel Energy Demands**





Depending on the design we can have a reduction in operation cost up to :

- -65% in air-conditioning
- -55% in hot water production
- -60% in lighting

#### LG Business Solutions

#### 1) Hot Water energy saving case study



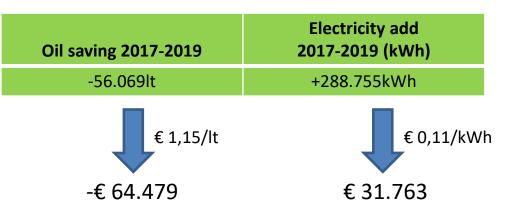
Cost Energy saving €32.716,00

51 % Operation cost saving!!!



## Grecotel Lux Me Rhodos Hotel

- •Oil Boiler replacement
- •Hotel operation: May-Oct
- •Target: To reduce the total operation cost for domestic hot water.





#### 2) Hot Water energy saving case study



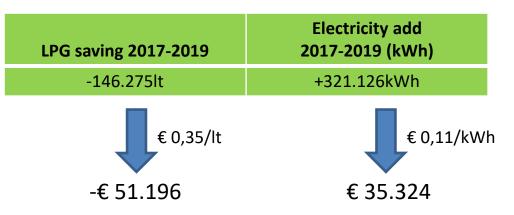


Cost Energy saving €15.872,00

#### 31 % Operation cost saving!!!

## **Grecotel Cape Sounio Hotel**

- •LPG Boiler replacement
- •Hotel operation: May-Oct
- •Target: To reduce the total operation cost for domestic hot water.





3) Hot Water energy saving case study



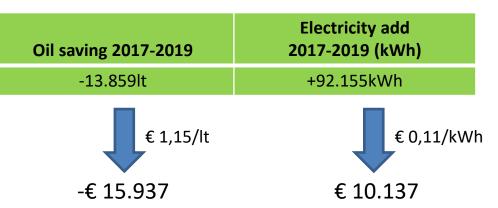
#### Cost Energy saving €5.800,00

36 % Operation cost saving!!!



## Grecotel Casa Maroon Hotel

- •Oil Boiler replacement
- •Hotel operation: May-Oct
- •Target: To reduce the total operation cost for domestic hot water.







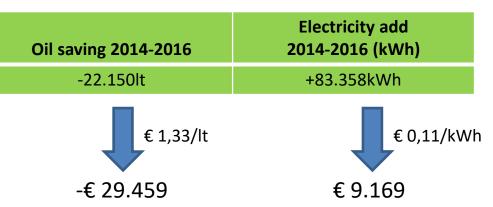
Cost Energy saving €20.290.00

69 % Operation cost saving!!!



## **Royal Mare Luxury Thallasso Resort**

- •Oil Boiler replacement
- •Hotel operation: May-Oct
- •Target: To reduce the total operation cost for domestic hot water.





# **Air Conditioning Heat Pumps**

5) Air Conditioning energy saving case study







Energy Cost saving €40.400,00

#### 62 % Operation cost saving!!!

## Atlantica Aegean View Hotel

Split Room air conditioning replacement with VRF MULTI V
252 Rooms cooling capacity12.000btu/h

Hotel operation:May-Oct

•Target: To reduce the total operation cost for Air Conditioning.

2016(Electricity Amount)	2017(Electricity Amount)
€65.400	€25.000

# **Air Conditioning-Ventilation**

6) Electricity energy saving case study



Cost Energy saving €74.998,00

#### 25,5 % Operation cost saving!!!





"Blue Lagoon Resort has managed to reduce electricity consumption by working with latest technology (energy savers) equipment,bus automation systems and replace HVAC with LG VRF MULTI V 5 Technology and Ventilation ERV of the main buildings."

#### Electricity consumption results





# Thank You

