



RAK HOSPITAL

Ras Al Khaimah, UAE



Challenge

RAK Hospital Management approached ENGIE Solutions to help them reduce the hospital's energy consumption. Most elements of the HVAC system were running on manual mode as the Building Management System had not been in operation for many years. In addition, there was also room for improving the chillers COP.

Solution

After conducting an investment grade audit, ENGIE Solutions and RAK Hospital signed an energy savings performance contract under which S4P agreed to undertake the full investment in the energy conservation measures. RAK Hospital agreed to share a percentage of the savings over a period of five years.

ENGIE Solutions implemented a host of cost-effective solutions to improve the efficiency of a variety of building systems. These included:

- Building management system/ chiller plant manager
- Adding adiabatic cooling system for chillers
- Effective VAV Control System for patient rooms
- Aircosaver for DX Units
- Time and ventilation based demand control of air handling units.

The energy savings in RAK Hospital is 20% per year.

Project Details

- Annual Energy Reduction: 942,922 kWh
- Annual Energy Savings: AED 480,000
- Annual CO2 Reduction: 770 Tons
- Return of Investment: 53%