

Smart Grids

Renewables integration

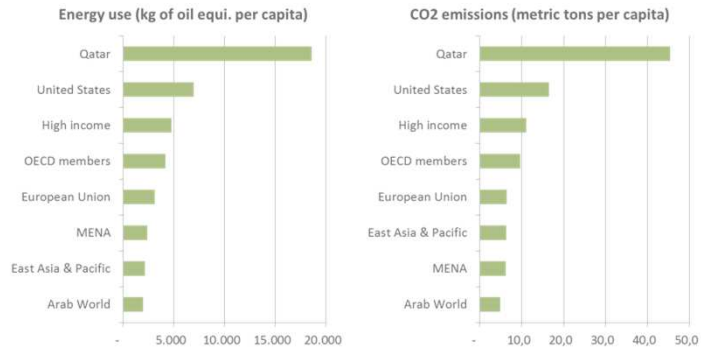
Energy Management

Energy Efficiency Services for final users

Issue

Qatar is among the top five countries in energy use and CO₂ emissions per capita. Energy efficiency and conservation are among the most effective measure to improve the use of energy and to reduce the associated emissions in the country.

Energy conservation is an important part of increasing the sustainability (source World Bank).



Solution

Iberdrola Innovation ME offers an end-to-end value proposition to help public and private consumers of energy to reduce their energy footprint.

Iberdrola Innovation ME Energy Efficiency Services Value Proposition



Given that electricity is in practice the only energy carrier in buildings and that HVAC and Lighting combined represent around 90% of the energy consumption of the building sector, the focus is the optimal design and implementation of HVAC and Light control systems. Additionally, Iberdrola Innovation ME believes that energy monitoring is the key to identify performance gaps and to measure continuous improvement. For this reason, the standard solution includes a cloud-based advanced metering solution with a potent visualisation and data analytics interface.



The service can include installation of renewable energy resources as well as monitoring equipment and software for the end user, all to increase the energy efficiency.

Iberdrola Innovation ME has already applied this integrated concept of energy efficiency and conservation in a series of buildings in Qatar, including schools and office buildings.

Impact

The contribution of energy efficiency and conservation in reduction Qatar's energy and emission footprint can be very large: a 30% reduction in the final use of energy, which is a conservative measure of the potential, would imply reducing electricity production by more than 12 TWh and saving around 38 TWh of natural gas. This drastic reduction in the use of the country resources, could imply monetary savings for the country greater than 1b\$ per year and the reduction of emissions of around 3 tonnes of CO₂ per capita.



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