



Cesit Ingegneria S.P.A.
www.cesit.net

Engineering Services

Energy Management

Cesit Ingegneria S.P.A. provides energy consulting services to industrial, service and public sector entities, for the purpose of saving energy and streamlining expenditure by applying criteria and solutions for optimising energy consumption and the contractual conditions governing energy supply.

The aim is to steer Customers towards operating solutions that reduce costs and enhance the efficiency of processes. Fluctuations in energy prices have a major impact on energy bills. We offer a customised service aimed at helping businesses set their energy saving and service improvement objectives. The energy management service becomes necessary when new saving opportunities arise, such as purchasing groups or consortia, and when new options present themselves in the wake of regulatory changes or following the emergence of new suppliers.

Energy cost reduction

As a system integrator, Cesit Ingegneria S.P.A. has set up a team of engineers with integrated, multi-disciplinary skills and energy-specific systems engineering skills, with a view to supplying solutions on platforms dedicated to the implementation of Energy Management Systems (EMS).



In relation to the nature of each Customer's business, Cesit offers solutions ranging from automated measurement of energy consumption by means of remote meter reading, to work space management by means of Building Automation.

- Smart metering solutions: technological systems and infrastructures for measuring data relating to energy consumption and the basic parameters associated with it
- Remote reading of existing or specifically installed meters, by means of GSM/GPRS data transmission
- Automated Meter Management (AMM) for electricity
- Automated Meter Reading (AMR) and Advanced Meter Infrastructure (AMI) for gas, water and heat, capable of taking corrective action with dedicated local control functions and concise analyses of the acquired data for the purpose of defining appropriate first response and efficiency-enhancement policies
- Solutions for the implementation of Energy Information Systems (EIS) with

architecture and content tailored to Customer requirements, for the purpose of creating geographically scalable systems right down to local level, using sensors and smart metering and control devices: this makes it possible to configure the devices remotely, create DBMSs on web servers optimised for query and history logging functions, manage threshold and trigger-point alarms, and make multi-level, multi-variable analyses, by comparing consumption data from multiple sites and taking account of environmental variables such as temperature and humidity

- Prediction and alert systems for detecting anomalous consumption or avoiding penalties, with alarms sent to a dedicated operator
- Management of environmental comfort in terms of temperature, brightness and safety, through the installation of motion sensors and the possibility of adjusting parameters according to standardised benchmarks established in conjunction with the Customer
- Power generation systems: solar, photovoltaic and cogeneration systems designed and sized to optimise Customers' energy consumption



How We Operate

Preliminary analysis

Acquisition and analysis of historical consumption data, and production of system operating characteristics

Assessment of billing rates and suppliers

Creation of consumption models

Analysis of data trends over time

Monitoring and control of energy consumption

Action

Proposal of solutions and action on billing rates and structural improvement of energy systems

Consumption monitoring over time

Development of prediction models of overall consumption

Development and implementation of Energy Management Systems

Training

Design and delivery of training courses on optimising use