



Energy Savings as a Service

the self-funding, managed solution that cuts costs and improves business performance



Most large enterprises understand that capturing, analysing and exploiting operational data plays a key role in today's essential efforts to reduce energy consumption and costs.

But capitalising on a vast and diverse array of data sets and millions of signals in real time can feel complex and unattainable, with high value and lasting benefits requiring extensive, in-depth understanding throughout the business.

Capgemini's transformational Energy Savings-as-a-Service (ESaaS) solution, combining advanced, intelligent data analytics, insight-driven strategy, bi-directional control and a comprehensive, fully-managed delivery plan, has been proven to save organisations between 10% and 20% in annual energy consumption.

For a large, multi-site, energy-intensive business, this could equate to annual cost savings of more than £10 million, and a range of substantial business efficiency, performance, reputational and sustainability benefits too.

Savings calculated and shared to a set formula

Best of all, Capgemini's ESaaS is designed to be fully self-funding, with energy cost savings calculated as part of a detailed business plan, and then shared to a set formula based on the achievement of mutually-agreed targets. **ESaaS is not a product – instead it is a contractual model in which Capgemini assures attainment of defined, cost-saving outcomes for its customer.**

In many cases ESaaS can be configured without any up-front investment. By accessing existing data sources and then applying Capgemini's technologies and analytical power

at a granular level, ESaaS identifies - and acts upon - a wide variety of individual consumption and cost-saving opportunities.

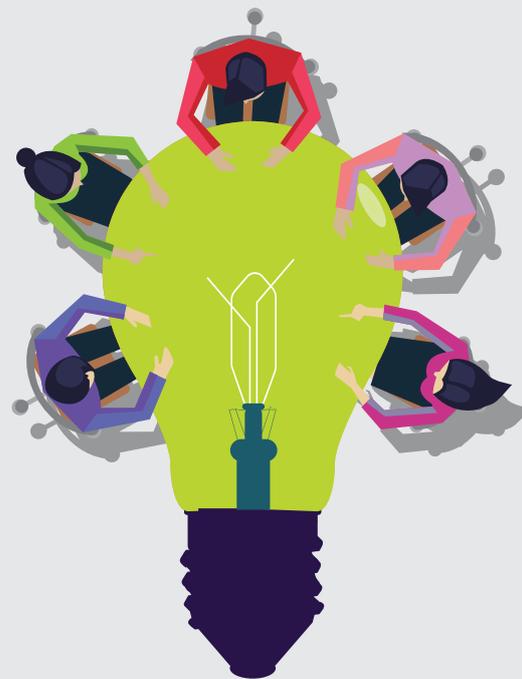
ESaaS can successfully operate alongside corporate facilities and estate management teams, in both industrial and commercial settings. It can use existing data capture systems and services, or provide additional and rapidly deployable monitoring and capture capabilities, depending on each organisation's current situation and corporate aspirations.

How ESaaS works

By analysing a variety of data sources, including real-time energy consumption across an organisation's entire extended estate, ESaaS reduces operational and administrative energy costs, optimises asset lifecycles and improves productivity and wellbeing for employees and customers.

It does this by:

- Rapidly identifying anomalies and conditions deviating from set points, to reduce energy consumption per square foot and maximise the efficiency of buildings and workspaces
- Efficiently managing assets by moving from reactive to predictive maintenance, reducing downtime impacts, cutting servicing and replacement costs and thus potentially extending the working life of equipment and facilities, and informing future procurement decisions
- Extending automated environmental controls beyond temperature to include, air quality, humidity, CO2, motion, noise and other environmental factors, to inform a comprehensive regime of management and control, to improve and optimise employee



Proven success:
For one UK utility with annual energy costs of around £50 million, Capgemini ESaaS reduced consumption by 20%, delivering annual savings in the region of £10 million.

working conditions and the experience of customers and other visitors to premises

- Scrutinising and simplifying energy administration, examining utility costs and tariffs, prevent overbilling by automating the validation of utility invoices, and streamlining payment processes for efficient, single source billing and management
- Capturing extended insights and applying data science and machine learning to a building as a 'living entity', to optimise usage and operating conditions and inform decision-making about how to successfully introduce new ways of working.

Capgemini's ESaaS solution can deliver substantial savings within months of deployment. And by operating remotely using agreed environment visualisation and reporting tools, and complementing an organisation's inhouse teams, the Capgemini ESaaS approach requires little dedicated management time or resource.



Using energy saving insights to benefit employees and society

While the specific savings that ESaaS can deliver in reduced energy consumption and associated costs can be calculated with precision, the benefits of improvements in the working environment, when multiplied across hundreds of office buildings, retail outlets, manufacturing centres, warehousing or depots, can be immense and the aggregational value of ESaaS amplified.

Environmental improvements have proven positive impacts on

employee satisfaction, innovation levels, productivity, performance and general health and wellbeing*. These gains in turn feed into elevated customer satisfaction, higher quality products and services, more successful recruitment and retention, fewer disputes and reduced people management time.

And at a time when conserving precious natural resources, minimising our impact on the environment and operating as sustainably as possible is vital for business and society alike, cutting energy consumption and costs is great for corporate balance sheets - and reputations too.

* Department for Business Innovation and Skills, 2014.



About Capgemini

A global leader in consulting and technology services, Capgemini is at the forefront of innovation to address the entire breadth of clients' opportunities in the evolving world of cloud, digital and platforms. Building on its strong 50-year heritage and deep industry-specific expertise, Capgemini enables organizations to realize their business ambitions through an array of services from strategy to operations. Capgemini is driven by the conviction that the business value of technology comes from and through people. It is a multicultural company of 200,000 team members in over 40 countries. The Group reported 2016 global revenues of EUR 12.5 billion.

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