



YOUR BUILDING **YOUR CITY** YOUR COMPANY



PARTNERS

















energy performance of buildings and building clusters.









In support of



Endorsed by partners from:









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OPTIMISING ENERGY USE BEYOND BUILDING ENERGY MANAGEMENT SCHEMES

OPTIMUS provides a set of advanced web-based consulting tools (Decision Support System - DSS, Smart City Energy Assessment Framework – **SCEAF** and TRACKER) for any building manager, city or company wanting to monitor and optimise energy use in buildings and implement effective Sustainable Energy Action Plans (SEAPs) in support of the Covenant of Mayors.

The key benefits of the **OPTIMUS** package are:

- Monitoring and optimizing the energy efficiency and renewable energy performance of buildings / districts / the city.
- Support of short-term decision-making on energy planning to reduce energy consumption, CO2 emissions and energy cost beyond BEMS up to 15-20%.
- Implementation of state-of-the-art ICT technologies and analytics for an integrated and systemic energy optimization.

INTEGRATING ENERGY RELATED DATA TO SUPPORT DECISION-MAKING IN BUILDING OPERATION

OPTIMUS works simultaneously with existing energy management systems, integrating five data sources (weather conditions, buildings' energy profiles, behavior/occupants' feedback, energy prices and energy production) in order to propose short-term action plans for energy managers.



PREDICTION MODELS TO OPTIMIZE THE PERFORMANCE OF PUBLIC AND PRIVATE BUILDINGS

Optimise the energy use in cities' buildings through their interaction with the energy systems. The **OPTIMUS DSS** offers the following **measures**.



Scheduling the photovoltaic (PV) maintenance



Scheduling and management of the occupancy



Scheduling the sale/ consumption of the electricity produced through the PV system



Scheduling the setpoint temperature



Scheduling the operation of heating and electricity systems towards energy cost optimization



Management of the air side Economizer



The **OPTIMUS** solution package was funded by the European Union and is available for free.

Besides having access to the technological solutions, you can get more additional benefits from the **OPTIMUS** expert team

- Consultancy and support services to adapt **OPTIMUS** to your specific
- Install of the **OPTIMUS** (DSS) infrastructure on your premises (additional third party license fees might apply).

In both cases, **OPTIMUS** experts can perform the installation, customization and maintenance of the **OPTIMUS** (DSS). In the client owned option, hardware (if any) and DSS software maintenance will remain a responsibility of the client.

Additionally, **OPTIMUS** provides an upgrade and maintenance option on a year to year basis.

These services are charged in accordance to their need for engagement. Please see the website for further information or contact us: info@optimus-smartcity.eu

RATE YOUR THERMAL SENSATION AND SAVE ENERGY

PLUG-IN OPTIMUS IN SEVERAL BUILDINGS AND SCALE BENEFITS ON A DISTRICT OR CITY LEVEL