



Let's go further



Digital sustainability and energy management with EG EnerKey

– get both black and green figures on the bottom line



Digital sustainability and energy management with EG EnerKey

EG EnerKey is a complete solution for digital sustainability and energy management and climate control. With the help of automatic data collection in real time and artificial intelligence, the solution ensures that decision-makers, administrators and technicians always have an updated and data-driven decision-making basis for making profitable energy investments with a positive impact on the carbon balance sheet.

All relevant consumption and carbon data, reports and analyses are gathered in the same place, so you can continuously monitor and optimise consumption in real time, as well as prepare detailed documentation about the effects of the initiatives, backed up by specific, up-to-date data. Systematic registration of consumption data, data-based analyses and effective planning tools make it possible to draft and follow up on specific action plans and monitor the impact of earlier efficiency measures. Experience from our customers shows that you can save up to 30% on your current energy consumption.

EG EnerKey is used by both public sector and private companies that need to optimise energy and make climate reductions across multiple locations and buildings.

The solution is ISO 50001 and ISO 14001 certified.

EG EnerKey works for you around the clock

The core of EG EnerKey is the automated data collection and intelligent analysis engine, which collects and analyses your consumption data 24/7 – regardless of whether it concerns energy, water or driving company cars.

The web-based solution is set up to collect data automatically at the source, e.g. in the form of meters in buildings or billing information from the utility company. The system contains all relevant integrations.

You can therefore always see your current consumption and make the best decisions immediately without the need for a consultant. If, for example, there is an unusually high energy consumption in a building compared to similar buildings, you can quickly find out why.

At EG EnerKey, you can also quickly remedy any issues using specific measures. The task of replacing a defective meter or re-insulating an end wall is created as an activity in an action plan. The task is assigned in the system to the technician who will perform the work. Once the job is done, you can quickly see the effectiveness of your action in terms of energy savings and carbon emission reductions. The entire work process is handled and documented in the solution, so that there is a full overview of action and effect.



EG EnerKey is the everyday tool for:

The financial controller:

A full overview of operating costs and the potential for savings from energy investments.

The property manager:

Full overview of the entire property portfolio, the individual units' consumption and deviations, as well as opportunities for optimisation.

The environmental manager:

Full overview of current consumption data and carbon impact, along with the potential of climate investments.

Technical staff:

Full overview of work tasks and the effects of efficiency measures.

All the necessary features and integrations

With EG EnerKey, you get the central features needed for your daily work with energy management and climate initiatives.

In one and the same system, you collect the ongoing operating data, analyse data, draw up action plans, delegate tasks, collate the effectiveness of efficiency measures, extract the reports that provide an overview of finances, resource consumption and carbon emissions – and you get a data-driven decision-making basis for energy investments that takes into account both your budget and your carbon account.

Your personal dashboard

The first thing you'll meet when you use EG EnerKey is your own personal dashboard, which is individually set up to show

you exactly the information you need. Here, you can get a complete overview of the consumption of selected resources such as electricity, water and heating across all buildings and units, or specific data for the property that you are responsible for.

Regardless of whether you've chosen the full overview of the entire portfolio or a single property, you can switch views in a flash. If you need to focus on a specific area sometimes, it's easy to change and adapt the dashboard to your current needs.



From the big picture to the detailed insight

Whether you have 500 or 5000 square metres distributed across many or a few buildings, it's up to you how detailed you want your data collection to be. Each building or room can be set up as a single unit, where you register exactly the information you need to monitor and manage your buildings.

If you need to know specific details about each location, you simply create the measurement points so that you can then compare and analyse data for both the individual building and across your entire property portfolio.



The screenshot displays the EG EnergyKey software interface. The top navigation bar includes 'Facilities', 'Readings', 'Energy management', 'Documents', and 'Ines'. The main content area is divided into two panels. The left panel, titled 'Quantities', lists various energy sources and types, including Electricity, District heating, District cooling, Own heating, Biogas, Wood chips, Pellet energy, Oil gas energy, Biogas energy, Heavy fuel oil energy, Heating, Heating purchased, Natural gas, Oil, Steam, Own cooling, Pellet, Own electricity, Natural gas energy, Liquid gas energy, and Wood chips energy. The right panel, titled 'Columns', shows a table with a list of facilities and their corresponding energy data. The table has columns for 'Facilities', 'Energy', and 'Status'. The facilities listed include Apartment house 1, Apartment house 2, Apartment house 3, Apartment house 4, Block of flats, Civil Center, Comprehensive school 1, Comprehensive school 2, Factory, Office building 1, Office building 2, Office building 3, Office building 4, and Office building 5. The 'Energy' column shows values for each facility, and the 'Status' column shows a toggle switch for each facility.



A short step from observation to action

At EG EnerKey, you have the option of comparing units across your property portfolio as well as with similar units owned by other EG EnerKey users.

This detailed record for the individual unit means that you can subsequently compare the unit's consumption with that of equivalent units. Based on the comparison with equivalent units, EG EnerKey can both warn you about any abnormal consumption and suggest ways to optimise your operations.

The setup also includes a task management system, where you can quickly translate the suggestion into action on a specific task, which is then sent to the technician who will carry out the work.

Once the work has been completed, it's possible to follow the effect of the efficiency measure all the way to the finish line. This means that you can easily show what the impact of the investment has been on energy consumption, your budget and carbon emissions.



GOO'S FOR ELECTRICITY (ID: 78486)

Basic information

Object of action *

Factory

Quantity

Electricity

Meter

Electricity (25)

Type *

Environmental investment

Execution phase *

Implemented

Status *

Investigation done

Effect starts at *

1.1.2021

Effect stops at

Title * (max 255 characters)

GoO's for electricity

Description

Purchased electricity will be certified in full with guarantees of origin

Ownership

Edit data of the action

Created at: 17.6.2021 14:31 (Created by Jussi Kaasalainen)
Updated at: 17.6.2021 14:34 (Updated by Jussi Kaasalainen)

Classification

Investment and savings information

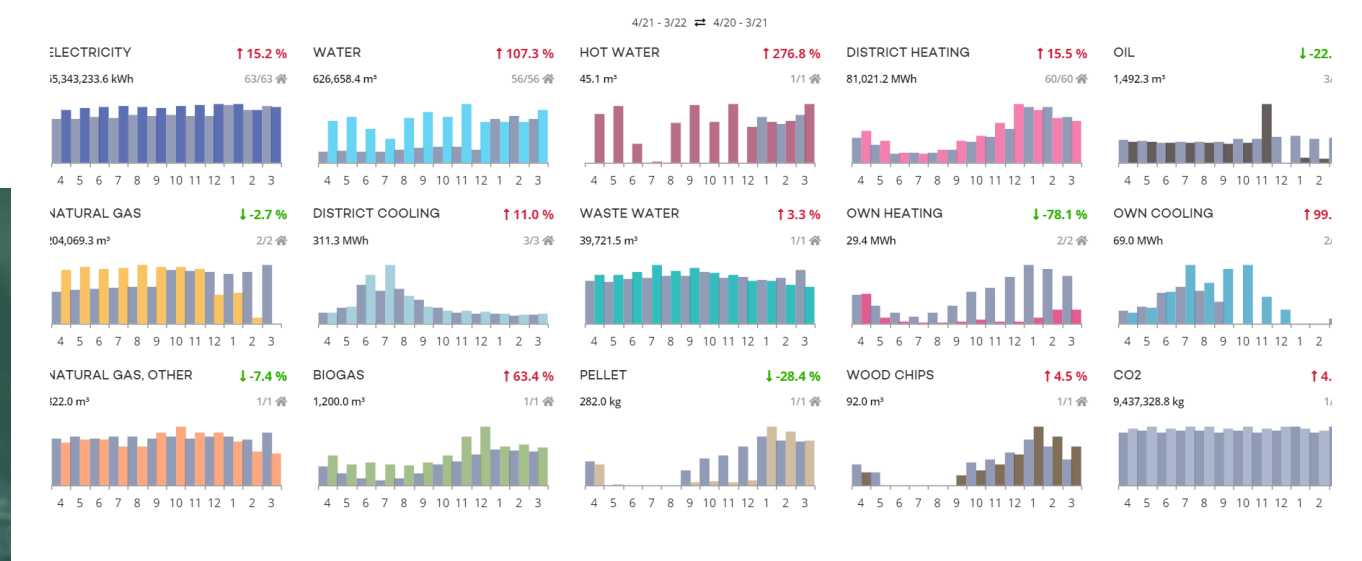
Delete

Save

Much more than just electricity, water and heating

With EG EnerKey, you can monitor more than 90 different types of consumption, from traditional types of consumption such as electricity, water and heat to waste broken down into specific types such as glass, metal and plastic.

EG EnerKey lets you set goals for the individual types of consumption. Targets can be set based on information such as budgets, energy savings targets and simulated consumption.

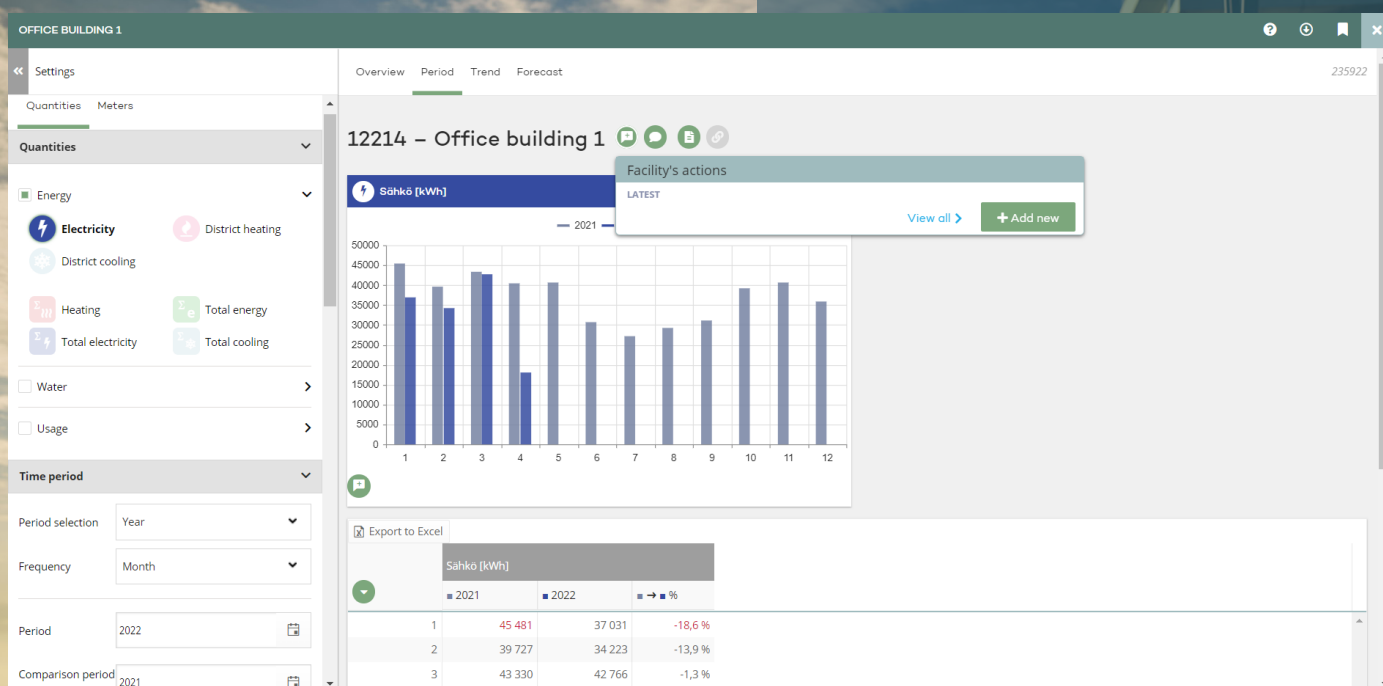


Correlation between consumption and costs

The key to the high data quality of EG EnerKey is the automatic collection of data from the source. Data is collected directly from sensors and meters at the physical locations or from energy and utility companies' consumption data.

If you have consumption where it is not possible to obtain data automatically from your own measurements or the supplier, you can enter data manually based on invoices, for example. Consumption can also be estimated automatically based on previous or expected consumption.

Costs can be viewed in EG EnerKey together with consumption data. This provides a comprehensive overview of the correlation between costs and consumption. The system also includes a budget tool that allows you to make forecasts based on actual consumption and costs. The data shows the actual cost impact of energy efficiency improvement measures.



Digital sustainability and energy management of all facilities and consumption types

Once you have set up your units in EG EnerKey, you will have a unique overview of your consumption in real time, where you can continually optimise your consumption right down to the individual office.

This operational monitoring applies to all types of consumption, so you can also receive a warning if the water consumption suddenly rises unexpectedly or the number of kilometres driven in company cars changes significantly.

The alarm is sent by email and all warnings can also be found in EG EnerKey together with the consumption data, on the dashboard and in the energy management tool.

ADD

Title * (max 255 characters)

Description

Ownership

Classification

Investment and savings information

Investment (€) <input type="text"/>	Expected savings Electricity (MWh/a) <input type="text"/>	Expected savings Electricity (€/a) <input type="text"/>	Expected savings Electricity (t CO2/a) <input type="text"/>
Funding <input type="text"/>	Heating (MWh/a) <input type="text"/>	Heating (€/a) <input type="text"/>	Heating (t CO2/a) <input type="text"/>
Payback time (a) <input type="text"/>	Fuel (MWh/a) <input type="text"/>	Fuel (€/a) <input type="text"/>	Fuel (t CO2/a) <input type="text"/>
	Water (m³/a) <input type="text"/>	Water (€/a) <input type="text"/>	

Reporting

Documents

Save

EG EnerKey Facilities Readings Energy management Documents Ines

Alarms Comments Actions Targets by facility Targets by quantity

Current and previous month Factory Include closed Search

Columns Export to Excel

Drag a column header and drop it here to group by that column

Alarm type	Facility name	Meter name	Meter ID	Quantity	Status	Active	Executed at	Last modified
<input type="checkbox"/> Consumption change (day)	Factory	Electricity	25	Electricity	●	<input checked="" type="checkbox"/>	14/04/2022 06:15	
<input type="checkbox"/> Consumption change (day)	Factory	Electricity	25	Electricity	●	<input checked="" type="checkbox"/>	13/04/2022 06:18	
<input type="checkbox"/> Consumption change (day)	Factory	Electricity	25	Electricity	●	<input checked="" type="checkbox"/>	12/04/2022 06:15	
<input type="checkbox"/> Consumption change (week)	Factory	Electricity	25	Electricity	●	<input checked="" type="checkbox"/>	11/04/2022 06:06	
<input type="checkbox"/> Consumption change (week)	Factory	District heat	28	District heating	●	<input checked="" type="checkbox"/>	10/04/2022 08:01	
<input type="checkbox"/> Consumption change (week)	Factory	District heat	28	District heating	●	<input checked="" type="checkbox"/>	10/04/2022 08:01	
<input type="checkbox"/> Consumption change (week)	Factory	District heat	28	District heating	●	<input checked="" type="checkbox"/>	09/04/2022 08:01	
<input type="checkbox"/> Consumption change (week)	Factory	District heat	28	District heating	●	<input checked="" type="checkbox"/>	09/04/2022 08:01	
<input type="checkbox"/> Consumption change (week)	Factory	District heat	28	District heating	●	<input checked="" type="checkbox"/>	08/04/2022 08:01	29455
<input type="checkbox"/> Consumption change (week)	Factory	District heat	28	District heating	●	<input checked="" type="checkbox"/>	08/04/2022 08:01	29455
<input type="checkbox"/> Consumption change (day)	Factory	Electricity	25	Electricity	●	<input checked="" type="checkbox"/>	08/04/2022 06:15	29455

1 - 67 of 67 items

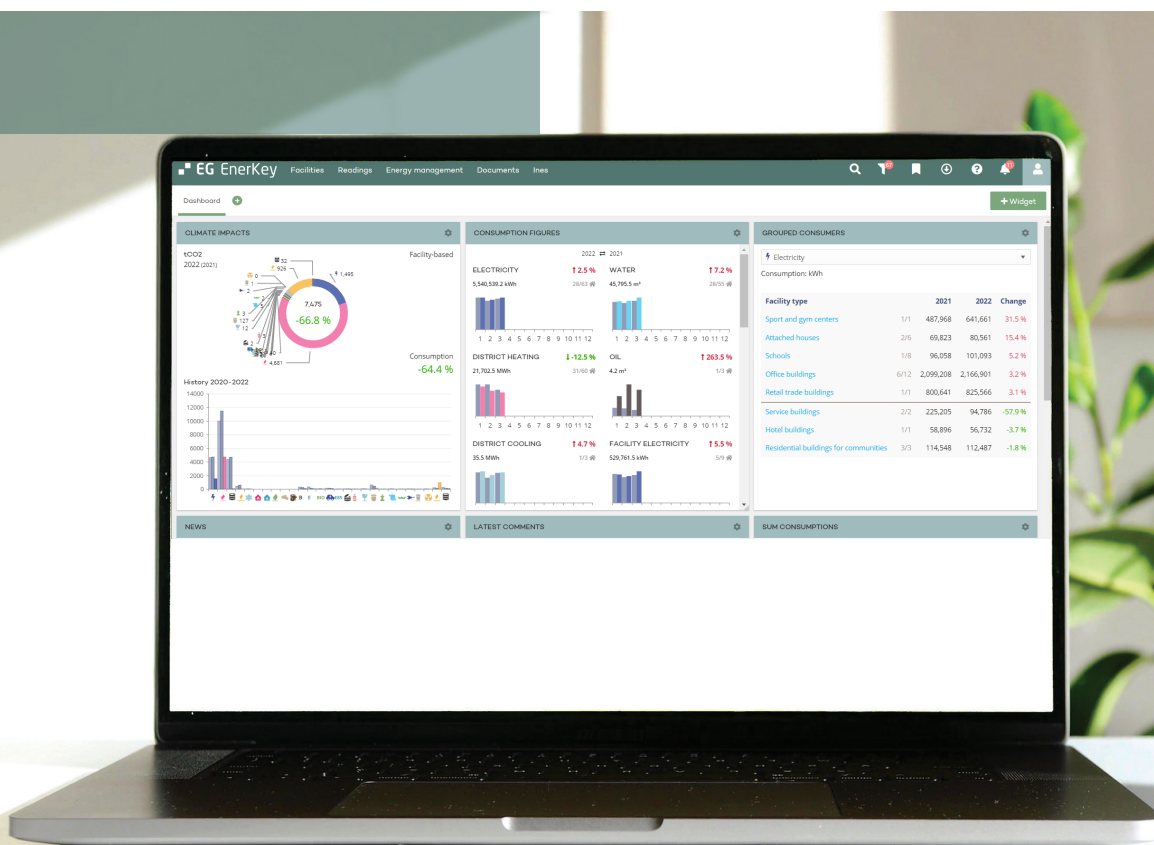


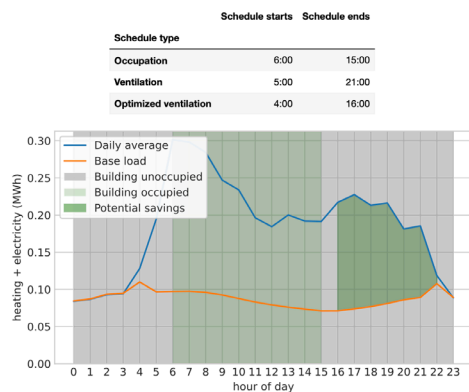


Let artificial intelligence and EG Ines do the work

With the AI module Ines for EG EnerKey, you get continuous and intelligent monitoring of consumption and automatic suggestions for ways to optimise consumption. All of this is presented in an easily readable and manageable graphic format, with the opportunity to dive into the individual figures.

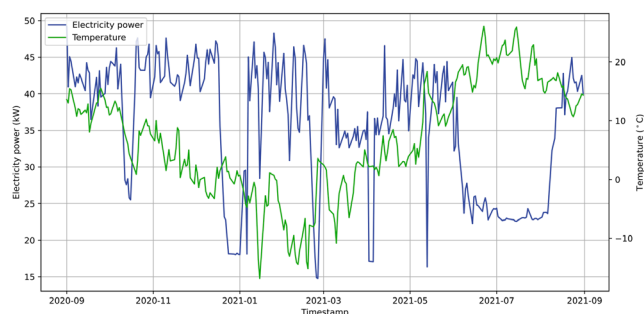
EG Ines automatically identifies the potential for energy optimisation and reduction of carbon emissions based on the current consumption data and thus updates the manual analysis work normally performed by energy consultants.





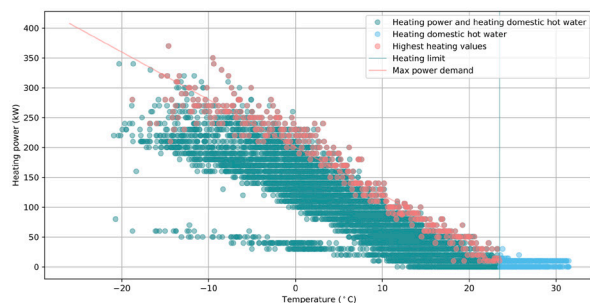
Ines Ventilation Analysis gives you detailed insights into the operation of your ventilation system and offers suggestions on how you can optimise the schedules for the individual units in each of your buildings.

Ines Heat Consumption analyses your heat sources and compares them with current data from similar buildings. Where the analysis reveals abnormal values, Ines suggests the most likely cause and provides constructive and concrete suggestions for how you can solve the problem.



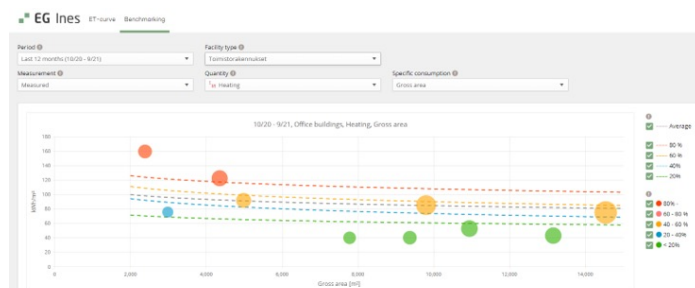
Heating limit: 23.5 °C

Max power demand: 407.48 kW, 97.367 W/m²



Ines Heating Power Analytics automatically analyses the correlation between the heating consumption and outdoor temperature. The analysis can reveal a heating limit that is too high and consuming energy unnecessarily.

Ines Smart Benchmarking makes it possible to compare your energy consumption and key figures for energy consumption in your property portfolio with similar buildings throughout the EnerKey database, which contains more than 20,000 locations.



The measures proposed by Ines are automatically transferred directly to the energy management tool in EG EnerKey.



Your documents are just a click away

Where is the consumption overview from April? Who has the list of renovation tasks we performed last year? With EG EnerKey, you have all your important reports, manuals and audit reports in one place. So it's always quick and easy to find documentation and share knowledge with others in the organisation.

In the document archive, you can upload and search for all information related to your properties, such as energy labels, energy audit reports or floor plans.





Cooperation and integration are issues close to our heart

Easy integration and cooperation with other systems and suppliers are among EG EnerKey's core values. EG EnerKey currently has more than 80 integrations and interfaces that enable us to retrieve data from more than 100,000 different types of meters and other devices.

Through tools such as DataAPI, SSO, Electronic Invoices and direct data transfers, the solution can be integrated with the DataHub, the energy companies' own systems, automatic meters and sensors, ERP and billing systems, as well as all other sources of factual data about your resource consumption – regardless of the type of consumption involved.

We continuously develop new integrations and interfaces as needed.



Support – when you need it

As an EG customer, you always have the opportunity to contact our professional and easily accessible support staff. The employees will either be familiar with the solution or can quickly find the right employee to help you move on with your work.

You can find our support page here global.eg.dk/support

(At least) three good reasons to choose EG EnerKey

1

User-friendly

- Individual dashboard setup that's simple to use on a daily basis
- Intuitive system with no user skills required
- Automated data acquisition reduces manual work
- Easy to change/edit settings.

2

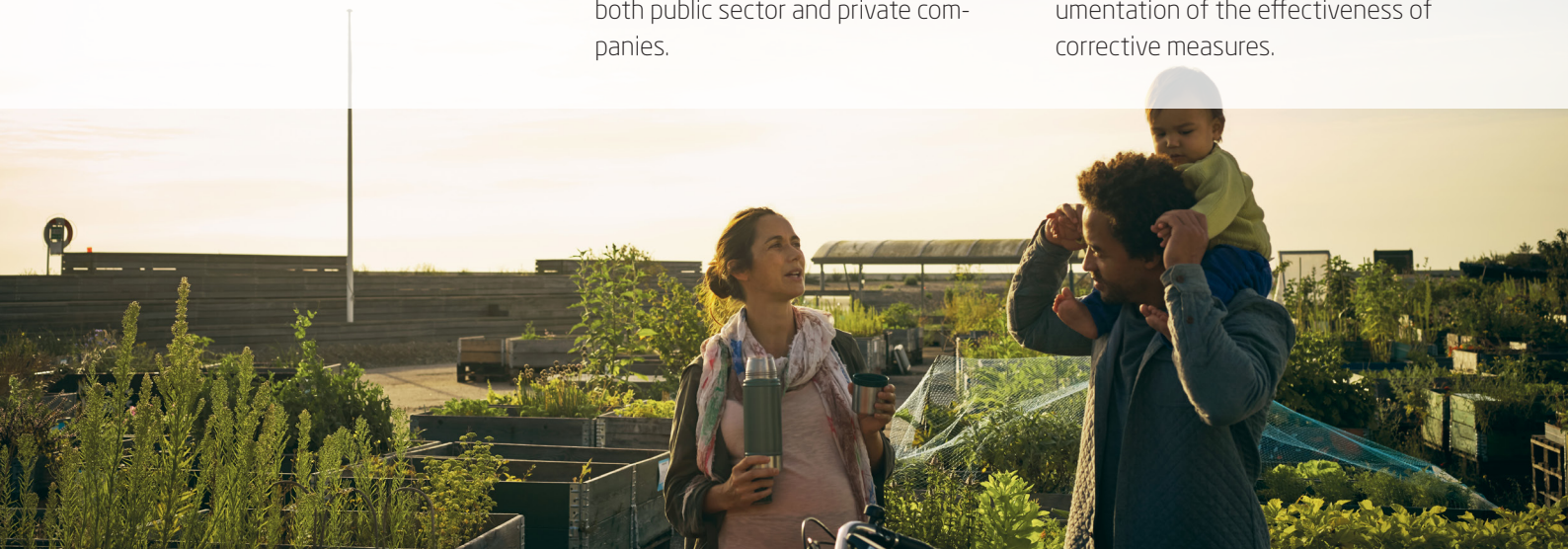
Flexible

- Easy to add new units and devices.
- Get started quickly with the most relevant features and begin using more as needed
- Choose between 90+ resource types
- Workflows and standards support the everyday tasks and needs of both public sector and private companies.

3

Intelligent

- Creates a data-driven decision-making basis
- Always up-to-date data
- Analyses and cost-benefit analyses calculated using artificial intelligence
- Creates consistency in data, from registration of consumption to documentation of the effectiveness of corrective measures.



What our customers say ...

We are well on our way to achieving our goals. Kesko is among the frontrunners in energy saving. A long cooperation with EG EnerKey has generated annual savings of EUR five million.

Matti Kalervo, Director of Corporate Responsibility, Kesko PLC

Kesko is one of the Nordic region's largest retail chains with approximately 1,800 stores. Since 2005, Kesko Corporation has been on the Corporate Knights list, Global 100 Most Sustainable Corporations in the World. The goal for Kesko is to reduce its total energy consumption by at least 7.5% by 2025.

EG EnerKey works perfectly when you want to quickly map the total consumption, such as finding out where the biggest deviations are. The results of the monitoring support our entire reporting process and some of the information will be used throughout the company. Monitoring energy consumption not only leads to financial gains. With EG EnerKey, we can identify other opportunities for energy management and monitor the effect of energy efficiency measures.

Johanna Kivelä, Sustainability Manager, Technopolis

Technopolis delivers efficient and flexible offices. It operates 16 office buildings with 1,400 companies in six European countries.

Maintaining such a large amount of property, coordinating and repairing would not be possible without an electronic logbook. EG EnerKey makes it possible to detect consumption deviations in almost real time. What's more, we can see the entire building stock together as opposed to just one building at a time, which improves efficiency. In practice, the systems work very well together. It is a critical requirement in property administration that you can switch from the logbook to the energy management system, all with one login.

Jouni Arola, Director of Facilities, Lahti Municipality

Lahti in southern Finland was awarded European Green Capital in 2021. Lahti has a property portfolio of approximately 520,000 square metres of commercial premises and invests in new construction projects each year for approximately DKK 300 million.

We want to reduce our energy consumption by about 10% over the course of a few years. We hope that EG EnerKey can support the solution of our daily energy work and not only streamline energy consumption, but also develop our operations to comply with the rules of the Energy Efficiency Act.

Jouni Erkkilä, Quality and Environmental Coordinator, Consolis Parma

Consolis Parma is one of the largest European manufacturers of prefabricated concrete solutions for the construction and utilities sector, with 10,000 employees and 20 companies in 17 countries.

All we need is less

We want to help everyone act more sustainably and reduce their environmental impact, so that together we can reduce climate change. By working together, we can achieve less waste, fewer emissions, less energy consumption and a greater positive impact on our climate.

All we need is less.

Read more about EG EnerKey global.eg.dk/it/eg-enerkey



REDUCED EMISSIONS



LESS WASTE



100% DATA-DRIVEN
SUSTAINABILITY



LESS ENERGY
CONSUMPTION



A REDUCED RESOURCE
CONSUMPTION



INCREASED PRODUCTIVITY
AND IMPACT



Jaakko Huhta
Vice President
jaakko.huhta@enerkey.com
+358 40 029 2257
www.eg.dk