

# Environment Energy Efficiency Management

## Successful on the market since 1997

Our company name is derived from SILENOS, a deity of Greek mythology and ruler of sources.

With our company name we refer to our demands in dealing with the most diverse data sources and to our competence in combining the most diverse technologies. The collection of technical data from machines, plants and buildings is no longer limited to a hall, a location or a property. Instead, innovative communication technologies have opened up completely new perspectives with regard to monitoring, control and management of such data. This also gives rise to new services.

and business models that did not exist yesterday. We see ourselves as the "communication managers" of this information. We have formed 3 product focal points, which very often merge in applications:

- ||| Environmental Energy Efficiency Management (EnMS)
- ||| Visualisation and operation (SCADA)

With our extensive and proven partner network, we guarantee customer proximity and fast response times.

More information under:

[www.sileno.com](http://www.sileno.com)



## e3m - the basis for energy efficiency

### ENVIRONMENT ENERGY EFFICIENCY

The active energy data management e3m is the professional solution for assessing the energy situation of your buildings and properties.

We have subordinated the four terms - Environment, Energy, Efficiency and Management - to the management process in our logo.

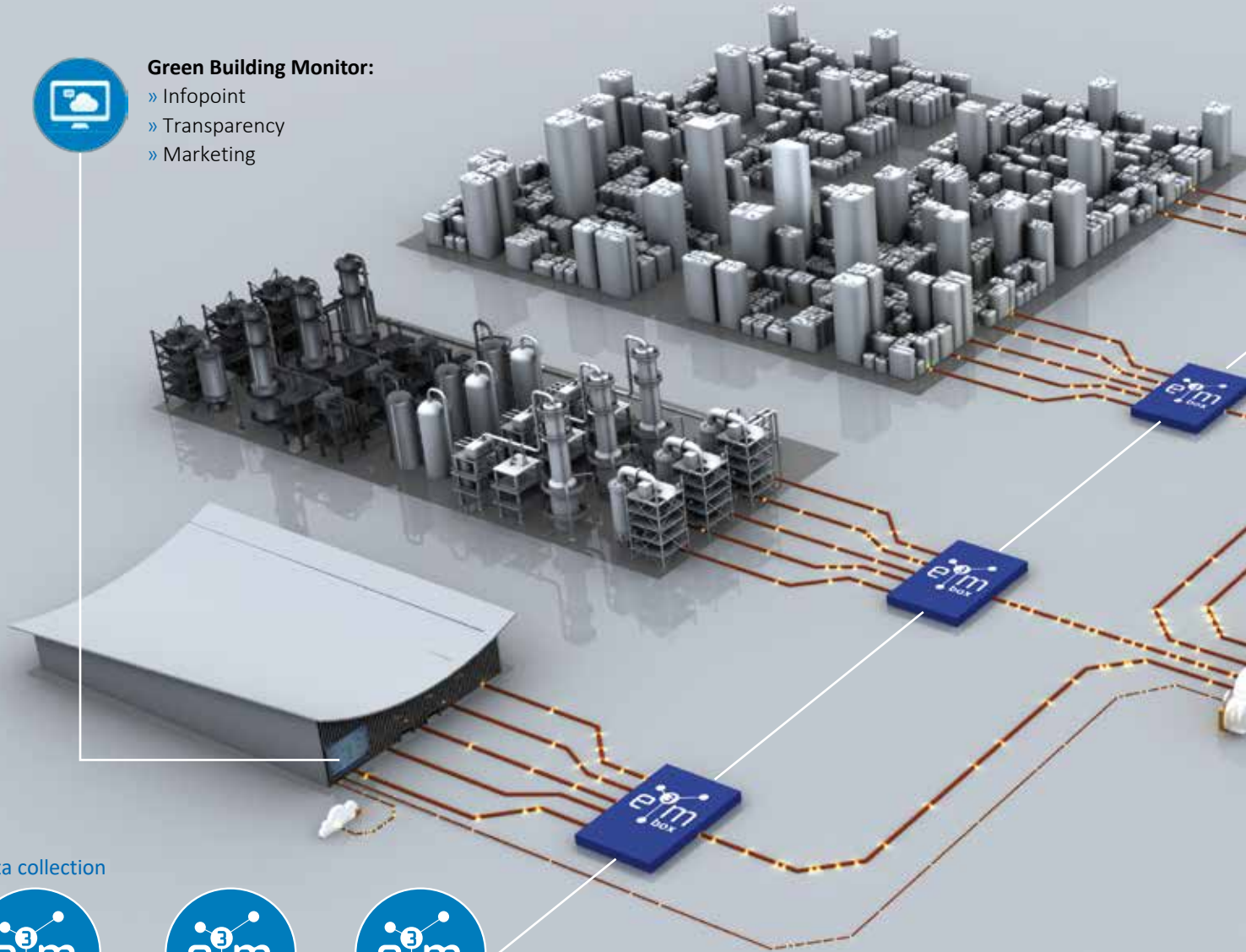
It is about energy and the responsible use of it. This means that besides economic aspects, ecological aspects (environment) must also play a role.

Reduced CO2 emissions are not only good for the environment, but also have a clear financial advantage. It remains undisputed that the most environmentally friendly energy is that which is not used. Energy efficiency is understood to mean that a desired benefit is achieved with as little energy input as possible. According to the economic principle, processes are only sustainably successful in the long run if all useless consumption is avoided.



### Green Building Monitor:

- » Infopoint
- » Transparency
- » Marketing



### Data collection



#### Hardware:

- » Meter
- » SPS
- » DDC
- » I/O's



#### Software:

- » SCADA
- » GLT
- » ERP
- » Bills
- » Meteo



#### Manual:

- » Meter readings
- » Mobile QR-Code
- » Invoices
- » Areas
- » Limits

### Data treatment



#### Plausibility check:

- » Anomaly detection
- » Automatic correction values

e3m is a scalable energy data management system that can be used as software, as a service or locally as a system solution, enabling you to expand the central management and analysis of measurement data, reference values and key figures of objects and properties locally, nationally or worldwide.

### Data evaluation



#### Diagrams:

- » Load profiles
- » Energy flows
- » Forecasts



#### Reports:

- » Management
- » Benchmarks
- » Measures



#### Alarms

- » Status messages
- » Key figure deviations



#### Documentation:

- » Conspicuous
- » Targets
- » Measures



#### Formulas:

- » Virtual measuring points
- » Key figures



#### Aggregation:

- » Compacting
- » Fast access



# Open, scalable and flexible

## **TYPICAL INITIAL SITUATION:**

- ||| Manual meter reading and evaluations in Excel
- ||| Excessive energy consumption is only detected after months
- ||| Operation and plant optimisation could only take place on site
- ||| Elaborate accounting for internal cost centres and tenants
- ||| No direct insight into the data (energy consumption, temperatures...)
- ||| No Central alarm monitoring of energy consumption and technical installations

## **SOLUTION AND ACHIEVED GOALS OF OUR CUSTOMERS:**

- ||| From 3 measurements to over 100'000
- ||| One object or hundreds
- ||| Documented measurement concepts and plausible data sources
- ||| Extraordinary energy consumption is detected and alerted
- ||| Central monitoring of all important technical installations Flexible Key
- ||| figure formation and benchmark
- ||| Preparation of consumption data for service charge settlement



## References & target customers

- ||| **Plant manufacturer**
- ||| **Automotive industry**
- ||| **Banks**
- ||| **Retail**
- ||| **Communities**
- ||| **Hotel and restaurant chains**
- ||| **Industrial enterprises**
- ||| **Hospitals**
- ||| **Power stations**
- ||| **Food industry Service-,**  
**System, and FM**  
**customers Public utilities**
- ||| **Municipalities**
- ||| **Pharmaceutical industry**

As your software service provider, we are always looking forward to new challenges, which makes our work enormously exciting, motivates us and allows us to tackle complex tasks again and again.

**With our extensive and proven partner network, we guarantee customer proximity and fast response times.**





**SILENO**

**sileno ag**  
Schleitheimerstr. 42  
CH-8222 Beringen

Fon +41 52 - 687 20 20  
Fax +41 52 - 687 20 29  
info@sileno.com

[www.sileno.com](http://www.sileno.com)