

## PROJECT OVERVIEW

# Industrial Energy Optimization

Industry has a major role in reaching climate goals. The AVES project offers a fresh, innovative approach to industrial energy optimization.

## Reducing Industry's CO<sub>2</sub> Footprint

Danish industry is feeling pressure to reduce their CO<sub>2</sub> footprint. The pressure is coming from UN Sustainable Development Goals, EU energy directives, and Danish law. Business-as-usual is not an option!

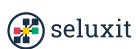
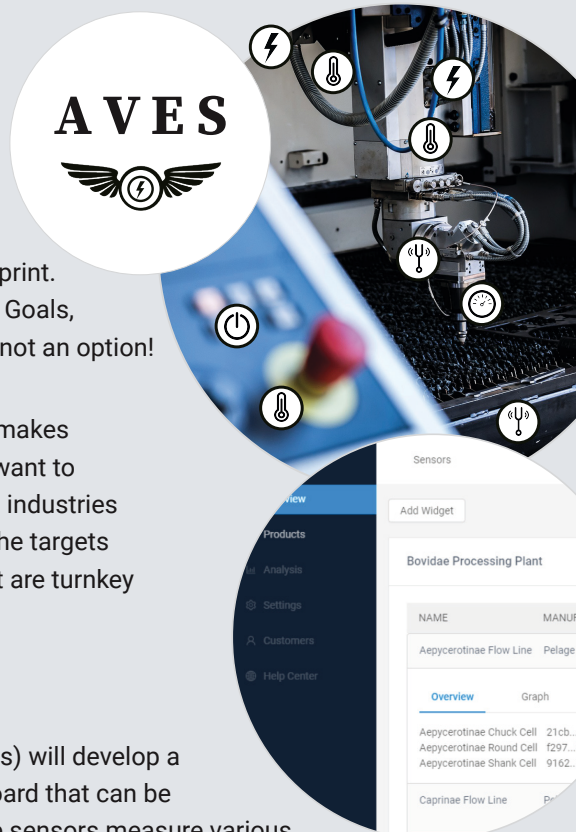
Fortunately, regulatory pressures aside, optimizing energy makes excellent business sense, and moreover people genuinely want to make a difference. And yet, a visit to the majority of Danish industries will reveal a lack of the data needed as the basis to reach the targets and fulfill standards such as ISO 50001 and ISO 14001 that are turnkey for regulatory compliance.

## The AVES Project

Project AVES (Analysis and Visualization for Energy Savings) will develop a standard product suite consisting of sensors and a dashboard that can be retrofitted and configured for many industrial contexts. The sensors measure various forms of energy including thermal and electrical. The sensors under development will be wireless, battery-operated and also to use energy-harvesting techniques.

By revealing patterns of data through visualization and analysis, AVES will be able to suggest prescriptive actions to optimize energy. Prescriptive actions could include when to power down parts of a production line to reduce idle time, and when to service a production-line before costly breakdowns (predictive maintenance).

AVES looks at energy optimization not as brute energy savings, but focuses on reducing energy consumption per unit manufactured, taking a holistic view of production.



The two-year AVES project started in December 2019 and is being conducted in partnership between the companies Seluxit, Systemize as well as Aalborg University's Department of Energy Technology. AVES is funded by the ETI project, offered by the energy cluster CLEAN. ETI stands for "Energy Technology Innovation" and is dedicated to helping small and medium-sized companies to develop energy-optimization solutions and products.

The funding has its origin from the European Union's Regional Development Fund administered by the Danish Business Authority (Erhvervsstyrelsen) in collaboration with CLEAN.

Further information and inquiries regarding collaboration as an industrial pilot company can be directed to the AVES project coordinator, Brian Boyles (brian@seluxit.com).

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