

Petainer optimizes compressed air and improves maintenance with Enersize data

Providing the world with sustainable packaging solutions requires Petainer to have a strong environmental focus which includes placing great emphasis on a properly maintained compressed air system.

Sustainability and certifications influence the direction

Sustainability is very important for Petainer and is a key component of the company's core values. The company aims to remove all causes of waste thereby creating a healthy culture, a great working environment and a positive future for its customers, suppliers, investors and communities.

Petainer Lidköping AB conforms to the Environmental standard ISO 14001 and Energy Management ISO 50001.

The facility

Petainer provides PET packaging technology for the beverage and food markets. The production process is divided into two stages/products: First stage is when the preform is produced in an injection moulding machine and either sent to the customer directly or to final stage where preform is blow moulded to finished product containers.

The injection process uses between 6-12 barg and the blow process uses 6-38B barg pressure.

The compressed air system is divided into low and high pressure nets with oilfree screw and piston compressor with a centralized control system for the most energy efficient utilization according to demand. Total capacity is 110 + 67m³/min.

Leakage detection and repair project results

Since 2015 Petainer Lidköping AB has conducted regular leakage detection surveys and repair projects to eliminate leakage. The company partnered with Momentum who used Enersize software to document the leakage detection and accelerate the repair project.

This year's survey was focused on detection inside the blow moulders. The team already suspected a high rate of leaks and was keen to have them documented to implement improvements systematically. "It is important that the leakage detection survey is carried out by experts with the right experience and training in identifying leaks and how to

About Petainer Lidköping AB

- Petainer provides sustainable packaging solutions with production focused on bringing PET packaging technology to the beverage and food markets.
- The compressed air system is divided into low and high pressure nets with individual compressors to accommodate the difference in demand from the injection and blow-moulders.



It is essential there is a company-wide understanding that compressed air is an expensive medium and that cost effective supply of compressed air depends on maintenance activities on demand-side. It is here the data and documentation from Enersize has helped us enormously.

Anders Lindén,
Infrastructure Manager at Petainer
Lidköping AB





grade them,” says Anders Lindén, Infrastructure Manager at Petainer Lidköping AB.

100% of the leaks detected in the first leakage detection survey were repaired within 6 months. Between 2015 and 2018 Petainer Lidköping AB has saved 1.2 GWh from leakage repair projects. A total of 300,000 SEK in energy cost savings is expected from this year’s leakage repair project.

Aligning the supply and demand side

Improving and maintaining compressed air systems requires addressing both the supply and demand sides and how the two interact in terms of flow and power.

Anders Lindén explains: “It is essential there is a company-wide understanding that compressed air is an expensive medium and that cost effective supply of compressed air depends on maintenance activities on demand-side. It is here the data and documentation from Enersize has helped us enormously.”

Optimal maintenance intervals are essential for efficiency and productivity. “With the Enersize data I’m able to see the compressed air usage, the resulting energy consumption and CO² emissions, and then secure the funding for the maintenance project,” says Lindén.

Direct access to data

Having leakage data at a granular level (graded by leakage diameter) enables the maintenance teams to make accurate decisions on which leaks to repair first and when. Also the team can make decisions about replacement of components.

Petainer Lidköping AB has direct access to the Enersize platform so that data and documentation can be viewed in real-time. “In Enersize I can pull detailed information about leakage characters (grades) and view the documentation including tags. I can also view estimated repair time and effort, which is good for planning, and last but not least I can monitor repair status,” explains Lindén.

Anders Lindén offers a piece of advice to others who are looking to set up a regular schedule for leakage surveys, repairs and preventive maintenance: “It is an advantage if your internal teams on both the supply and demand-sides are knowledgeable about the cost of compressed air. And I recommend partnering with suppliers who can analyze the data captured in Enersize and advise on improved spare parts.”

Facts and figures

1.2 GWh in energy savings between 2015-2018 from leakage repair projects

300,000 SEK in energy cost savings is expected from this year’s leakage repair project

100% leakage repair rate within 6 months after leakage detection survey

About Enersize

Enersize delivers smart software, tools and services for energy optimization of industrial compressed air. Resulting from the merger of three Nordic companies, Enersize customers benefit from the heritage and experience of over 7000 projects. Our expertise and the commitment of our people has made us a recognized global leader in compressed air efficiency software. The company is listed on Nasdaq Stockholm First North Growth Market under the ticker: ENERS

For more information visit enersize.com