

## *CASE: Enersize*

ENERSIZE PARTNERED WITH IONSIGN TO DELIVER FAST AND SUBSTANTIAL ENERGY SAVINGS, WITH NO ADDITIONAL CAPITAL INVESTMENT

*ionSign's smart and cost-effective remote monitoring enables Enersize to optimise compressed air production leading to up to 29% energy savings.*



### THE CHALLENGE

47 GWh of annual electricity usage impaired the cost efficiency and carbon footprint of a Chinese LCD panel manufacturer.



### THE SOLUTION

Continuous remote monitoring of crucial operational data enabled planning, realising and monitoring measures to improve efficiency.



### THE RESULTS

15% savings in energy costs within 5 months. Targeted to reach 29% over the next 12 months, exceeding €1 000 000 of annual savings.



## TESTIMONIAL

*"Partnering with ionSign made it possible for us to efficiently provide services on a global scale. A constant flow of reliable data from the site is a necessity for us to plan and follow the optimising actions. ionSign designed us a solution, which now is a standard issue in our services."*

SAMI MYKKÄNEN, CEO ENERSIZE OY

# ENERSIZE HAS OVER 35 YEARS' EXPERIENCE OF PROVIDING SYSTEMATIC COMPRESSED AIR SYSTEMS (CAS) ENERGY EFFICIENCY OPTIMISATION

One of Enersize's clients in CAS energy saving is a leading global LCD panel manufacturer, based in China. To ramp up cost competitiveness and carbon footprint, it needed to cut down on the 47 GWh of annual electrical energy used for compressed air production.



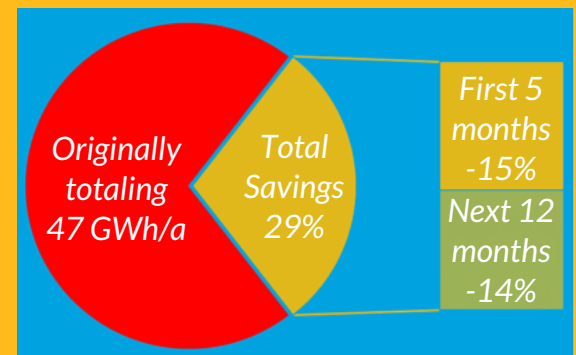
## How Was It Done?



Enersize's CAS energy optimising system – *CashAIR* – has a number of vital components including the installation of the *Enersize Platform* for monitoring, CAS analysis, implementing ongoing improvements and verifying savings with continuous monitoring. The *ionSign GMU191* remote monitoring units are the backbone of the solution, effectively placed to monitor crucial elements of the system including energy, pressure, flow and dew point.

Essentially with the data gained by three *ionSign GMU191* units, *Enersize* planned and employed optimisation measures, passing on significant savings to the Chinese LCD panel manufacturer.

**Within 5 months of kick-off, Enersize had delivered energy savings of 15%. Further optimisation measures have been planned already to drive energy savings to 29% over the next 12 months.**



## Benefits for Enersize

- Establish reliable pre and post optimisation statuses independently of client
- Fast, low-risk and cost-effective remote monitoring
- Faster savings for their client
- Considerable new business and growth opportunities
- Ability to provide services on a global scale

## Benefits for end client

- Systematically improved energy efficiency
- Significant financial savings – 15% within the first 5 months
- No capital investment
- Transparency – real-time status view anywhere
- Significant improvement in carbon footprint
- Energy efficiency training for staff by Enersize



## ionSign Remote Monitoring Unit GMU191

- 10 analog, 8 digital and one PT1000 temp input
- Modbus fieldbus connections with RS485
- Data buffering: 156 days @ 15 min reading interval
- 3G cellular data transfer (LAN also available)
- Simple set up with one SMS message