



green  
AIR

**HIGH EFFICIENCY  
COMPRESSED AIR NETWORKS**

*Improving network efficiency requires a significant reduction in the operating costs of compressed air production systems, which leads to savings in electricity consumption.*

*Green Air is the tool that modernizes and improves the efficiency of compressed air generation and production networks within in the industrial sector.*



Energy-efficient retrofitting of compressed air networks with the EPC Guaranteed Saving formula.



**GREEN AIR INTERVENTIONS**

Thanks to Whitenergy's Green Air service, the client is able to keep the compressed air network running smoothly without incurring investment costs in the purchase of new machinery, as well as maintenance costs for the network itself.

In fact, through the EPC (Energy Performance Contract) formula, Whitenergy invests directly in customized technology and maintenance plans and offers the customer guaranteed minimum savings.

Green Air is designed for companies that wish to:

- promote energy efficiency measures and modernize their plants without the burden of direct investment;
- be entirely devoted to their core business, without the concern of managing and maintaining the compressed air system.

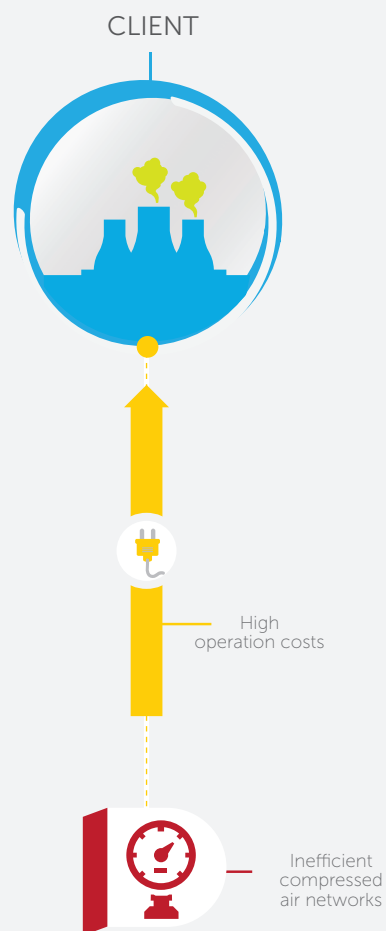


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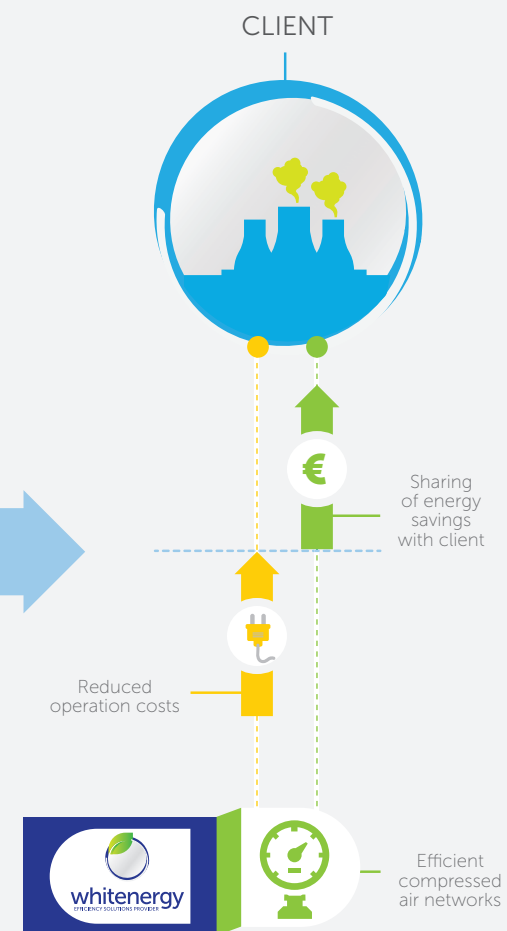
### WHO IS IT FOR?

Green Air is essentially designed for companies at every level of the industrial sector, from manufacture to heavy industry.

## Situation prior to intervention



## Situation post intervention



### THE WHITENERGY GUARANTEE

- Detailed audit of compressed air generation and distribution systems, with particular emphasis on air losses due to leaks in valves, joints, actuators etc.
- Definition of improvement interventions and an adequate predictive maintenance plan that



### CASE STUDY

#### GREEN AIR intervention in the industrial sector

Chemical plant in northern Italy, active in the production of "chemicals" used in the aluminium industry. Although the compressors used are not obsolete, the network has never been maintained and is highly inefficient, also in consideration of the fact that the system runs continuously, 24 hours a day throughout the year.

#### Situation prior to intervention

There are 2 fixed compressors and 1 variable speed compressor that modulates the flow rate. The annual energy expenditure for compressed air production is € 155,000.

#### The proposed intervention and post-intervention situation

Following a complete audit of the compressed air system using ultrasound to detect losses, Whitenergy measured the electrical absorption of the compressors to identify the ideal solution. The system required the installation of a compressor room management system with on-site measurement sensors (compressed air and electricity), alongside a proactive maintenance plan to contain leaks, consisting of periodic inspections and the repair of any detected losses.

The results of the operation are:

- savings in electricity supply to the compressors, thanks to a significant reduction in the flow rate processed and the annual volume of compressed air produced.

The investment was made in full by Whitenergy. The customer benefits from total shared savings of € 28,000 per year and no is no longer required to maintain the network.




maintains the efficiency of the system

- Installation and testing
- Maintenance and reports on savings generated by the project



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Verona Via Antonio Meucci, 2 - 37135 (VR)  Cagliari Via Nazario Sauro, 10 - 09123 (CA)  
tel. +39 045 2456006 - +39 070 276691 - info@weeg.it - www.weeg.it