Compressors Control management.
Energy savings in modern
compressed air installations

Luc Hendrickx
President Oil Free Air Division

\[ >70\% \] energy

\[ >70\% \] maintenance

\[ >70\% \] investment

Saving Energy

In Europe alone 80 TWh / year for
compressed air
Energy Saving Potential
24 TWh / year

- Installation optimization: 8 TWh
- Drive systems: 8 TWh
- Integration of systems: 8 TWh

Energy Savers
like electronics, software, improved drives

- Advanced ES systems: 12%
- VSD: 17%
- High efficiency motors: 2%

THE ATLAS COPCO SOLUTION

Graphical representation showing energy savings profiles.
**Energy Savers**

**THE ATLAS COPCO SOLUTION**

**ZR900 VSD (2002)**

NEW!


First oilfree VSD screw compressor

**ZR160 VSD (2001)**
Energy Savers

THE ATLAS COPCO SOLUTION

Customer benefits
- Constant pressure in the air-net
- Lower cos PHI on the powernet
- Electricity consumption down with 15...30...35%

Example of savings
- Say: average power consumption: 200 kWh, price: 0.05 € per kWh
  × 0.20      saving (20%)
  × 8000 running hours
  × 0.05 € per kWh  = 16 000 € / year

Energy Savers

like electronics, software, improved drives
Extend To Energy Consulting
energy saving potential with installation optimisation

AIR QUALITY
SAMPLING POINT

PRESURE
FLOW

CRC
t (or new generation measuring box)

INTERNET

ANALYSIS & RECOMMENDATIONS

DATA WAREHOUSE
Extend To Energy Consulting
energy saving potential with installation optimisation

1. Air consumption profiling
2. Selection and analysis of installation
3. Pick and place installation build up
4. Energy optimization

The Use of the Product
The Optimum Contract
Lowest energy cost and up-time guaranteed in one package