

**Compressors Control management.**  
**Energy savings in modern compressed air installations**

Luc Hendrickx  
President Oil Free Air Division



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The Offer*

**Saving Energy**

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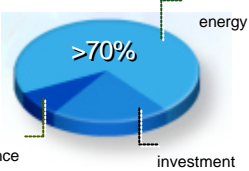
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**Saving Energy**

In Europe alone 80 TWh / year for compressed air



energy  
investment  
maintenance

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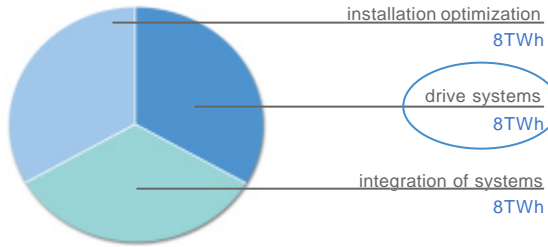
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### Energy Saving Potential 24 TWh / year



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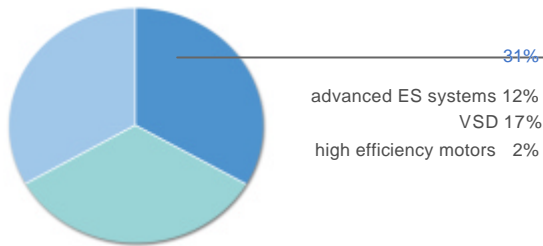
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### Energy Savers

like electronics, software, improved drives



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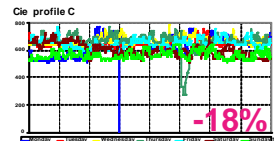
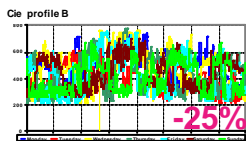
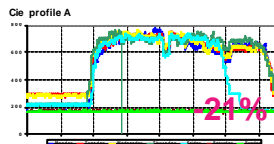
### Energy Savers

#### THE ATLAS COPCO SOLUTION

test set-up

ZR 275 7.5  
ZR 315 8.6 VSD

PLC



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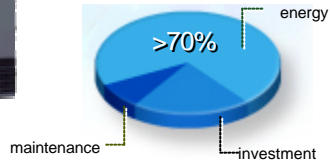
## Energy Savers

THE ATLAS COPCO SOLUTION

VSD - Variable Speed Drive



20...35% energy savings



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## Energy Savers

THE ATLAS COPCO SOLUTION

ZR90 VSD (2002)

**NEW!**



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## Energy Savers

THE ATLAS COPCO SOLUTION

ZR500 VSD (2002)

**NEW!**



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## Energy Savers

THE ATLAS COPCO SOLUTION

ZR900 VSD (2002)

**NEW!**



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## Energy Savers

THE ATLAS COPCO SOLUTION

ZR315 VSD (2000)



First **oilfree** VSD screw compressor

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## Energy Savers

THE ATLAS COPCO SOLUTION

ZR160 VSD (2001)



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## 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
  - x 0.20 ⚡ saving (20%)
  - x 8000 running hours
  - x 0.05 €/per kWh ⚡ **16 000 €/ year**

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## Energy Savers

like electronics, software, improved drives



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eXtending  
The Offer

Compressor  
Room Control

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Extending The Offer 16 Atlas Copco

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Extending The Offer 17 Atlas Copco

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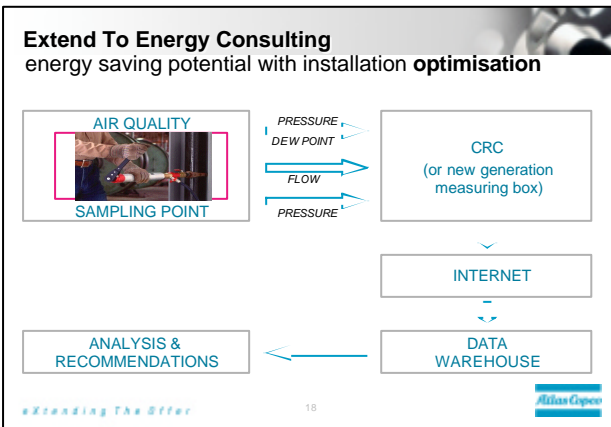
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**Extend To Energy Consulting**  
energy saving potential with installation **optimisation**



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

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**The Use of the  
Product**

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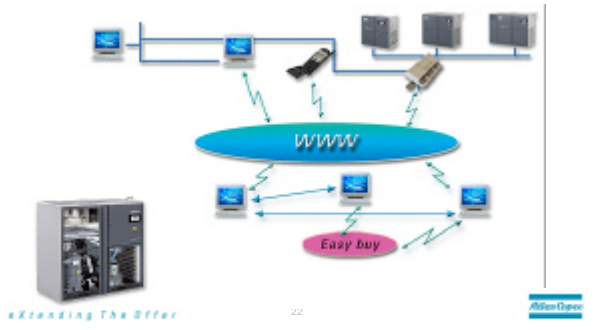
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### The Optimum Contract

Lowest energy cost and up-time guaranteed in one package



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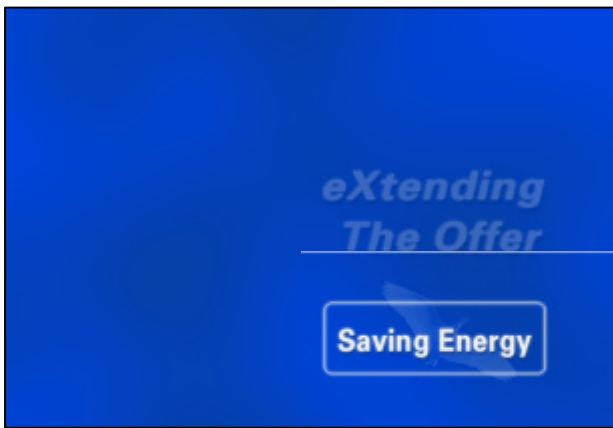
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