Atlas Copco Energy Efficient Solutions



Jan Kougl

General Manager

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Atlas Copco

Sustainable Productivity

Facts in brief

Established	1873 in Stockholm, Sweden				
Global presence	Customers in more than 170 countries				
Employees	37 500 in 86 countries				
Annual Revenues	BSEK 81 (BEUR 9)				
Operating margin	21.6%				





An industry benchmark





Atlas Copco Global Market Presence



Atlas Copco Focused Business Areas

Industrial Tools





Compressors



Construction Equipment





Mining and Rock Excavation



Atlas Copco in Russia

Established	1913 first representative officein Russia1996 ZAO Atlas Copcoregistered
Presence	Over 30 branches from North-West to Far East

Employees Around 700

Annual 375 MEUR

Revenues

Certification ISO 9001, OHSAS 18001 ISO 14001





Saving energy is our way of life



A century of innovation in energy saving features

Over 400 patents



Energy Efficiency in Compressed Air Solutions

What is Compressed Air?

One of the most important utilities for industry.One of the largest consumers of energy:

10% of total industrial electricity consumption
40% of the electricity bill for certain plants.





Any savings made in compressed air systems have a significant impact on costs and on the environment.



Energy savings on compressed air benefit our customers and the planet

- Reducing the CO2 footprint at every stage of a compressor's life time from 'cradle to grave'.
- Saving energy from the design phase right through to the equipment's manufacture, distribution, consumer use, disposal and recycling.







Energy saving: comprehensive approach



Product Portfolio to increase efficiency



Unique Technology to increase Energy Efficiency

Variable Speed Drive Technology: Optimization of energy consumption Energy Savings up to 35 %

Control & monitoring: Elektronikon Monitor, control and measure energy consumption

The Energy Recovery control unit

Energy Recovery control units are specifically designed to transfer the energy recovered from compressors to the customers' process.









Energy efficient solutions for Waste Water Treatment



Just 10% of energy savings in the wastewater services sector could collectively save about \$400 million annually.

According to the United States Environmental Protection Agency (EPA), "...approximately 56 billion kilowatt hours (kWh) is used for drinking water and wastewater services. Assuming an average mix of energy sources in the country, this equates to adding almost 45 million tons of greenhouse gases to the atmosphere. Just 10 percent of energy savings in this sector could collectively save about \$400 million annually



Technology portfolio for low energy consumption



Energy-efficient compressors

Atlas Copco's 100% energy recovery compressor



10% of global industry's energy consumption comes from compressors; Atlas Copco can cut this substantially

Atlas Copco



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Certificate ET 314 2008 C2

Type test of ZR 55-750 range with builtin energy recovery systems

Comparison of the <u>electrical energy</u> consumption with <u>heat energy</u> recovered

Certified results

- "100% of the electrical energy consumed could be recovered"
- "net power (energy) consumption of the ZR compressor with built-in energy recovery at specific design conditions is zero"



'Use your energy twice' concept Cogeneration

- The creative concept is focused on processes / industrial application
- Realistic 90-95% recovery from 100% electrical energy input

Switch your compressor into an energy source



Use Your Energy Twice website

- <u>http://www.useyourenergytwice.com</u>
- Technical details, applications, savings calculator, brochure and much more !

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Home								
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Switch your compressor into an energy source!				In Focus				
Using energy twice: it sounds hard to believe, but it is possible				Find out how much you can				
With the Atlas Copco ZR oil-free screw compressors it is reality!				save				
The electrical input power used for producing compressed air can be recovered as hot water and used for many industrial applications, space heating and sanitary purposes.			ater and	 Download brochure 				
The impressive energy re compressor will benefit bo			f our ZR oil free screw					
Send to a friend 📰 Print 🚔 Shar	<u>re</u>							
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Committed to sustainable productivity.



