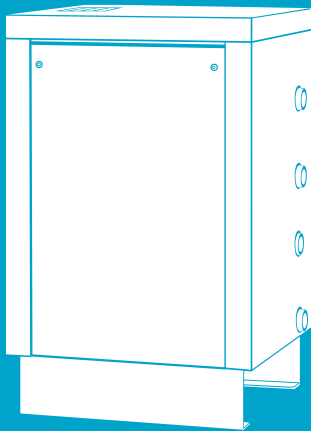


***USE YOUR
ENERGY TWICE.***

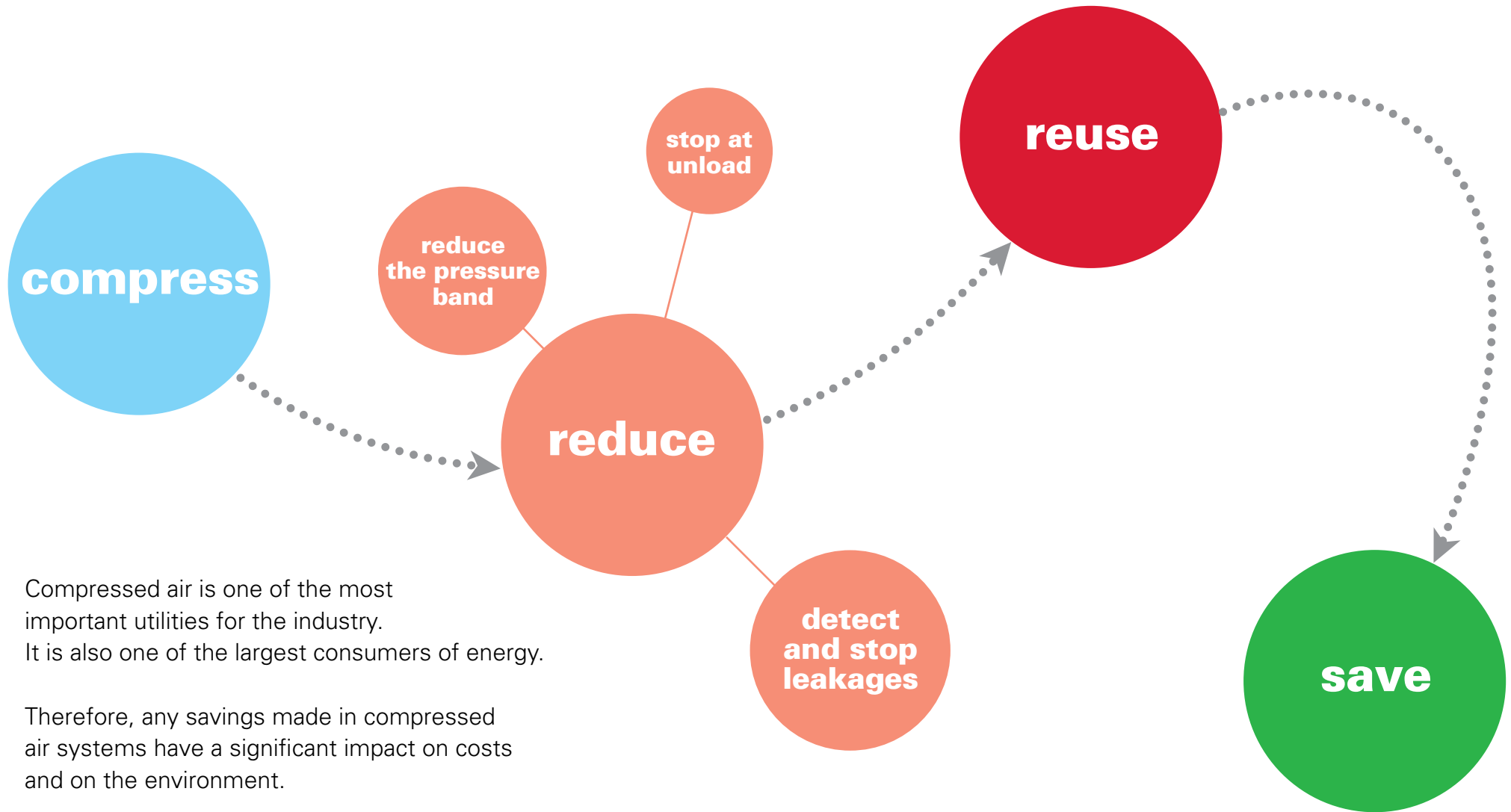
Energy Recovery Systems



Atlas Copco



Energy Recovery - Cost Savings



Spanish dairy production plant saves yearly 33.000 euro

When Atlas Copco learned that a dairy plant in Spain - relying on four GA and two ZT compressors as well as on 6 dryers - uses hot water for thermal processes like pasteurizers and heaters, we immediately understood that an Energy Recovery unit could bring some significant savings.

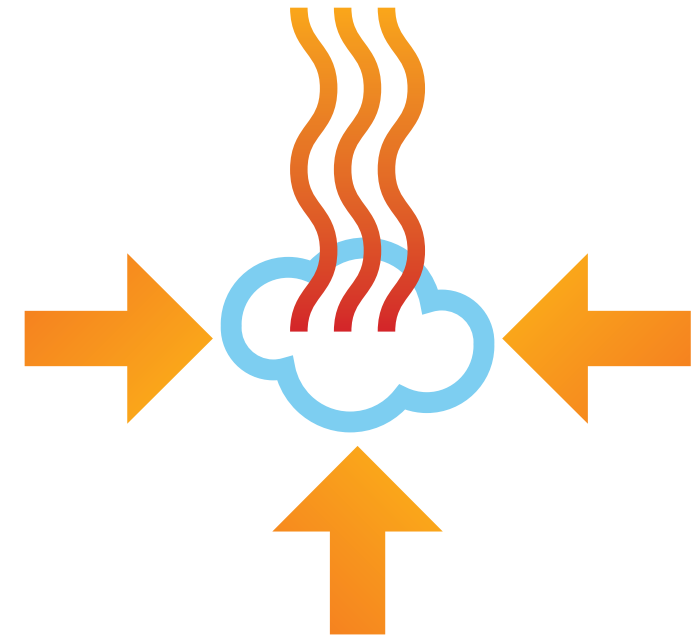
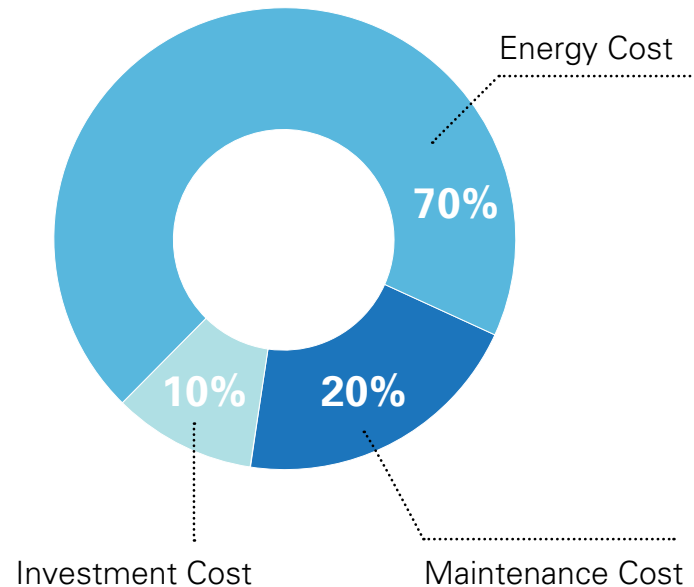
Atlas Copco put its global Optimization Project in place: an AirScan revealed a number of leakages; a central controller reduced the high pressure band and the many hours in unload; an Energy Recovery unit produced hot water for their processes and made their costly installation obsolete.

In total these measurements resulted in an impressive cost saving of 33.000,00 euro/year.



Compressors are energy sources.

Compressed air is one of the most important utilities for the industry. It is also one of the largest consumers of energy. Therefore, any savings made in compressed air systems have a significant impact on costs and on the environment.



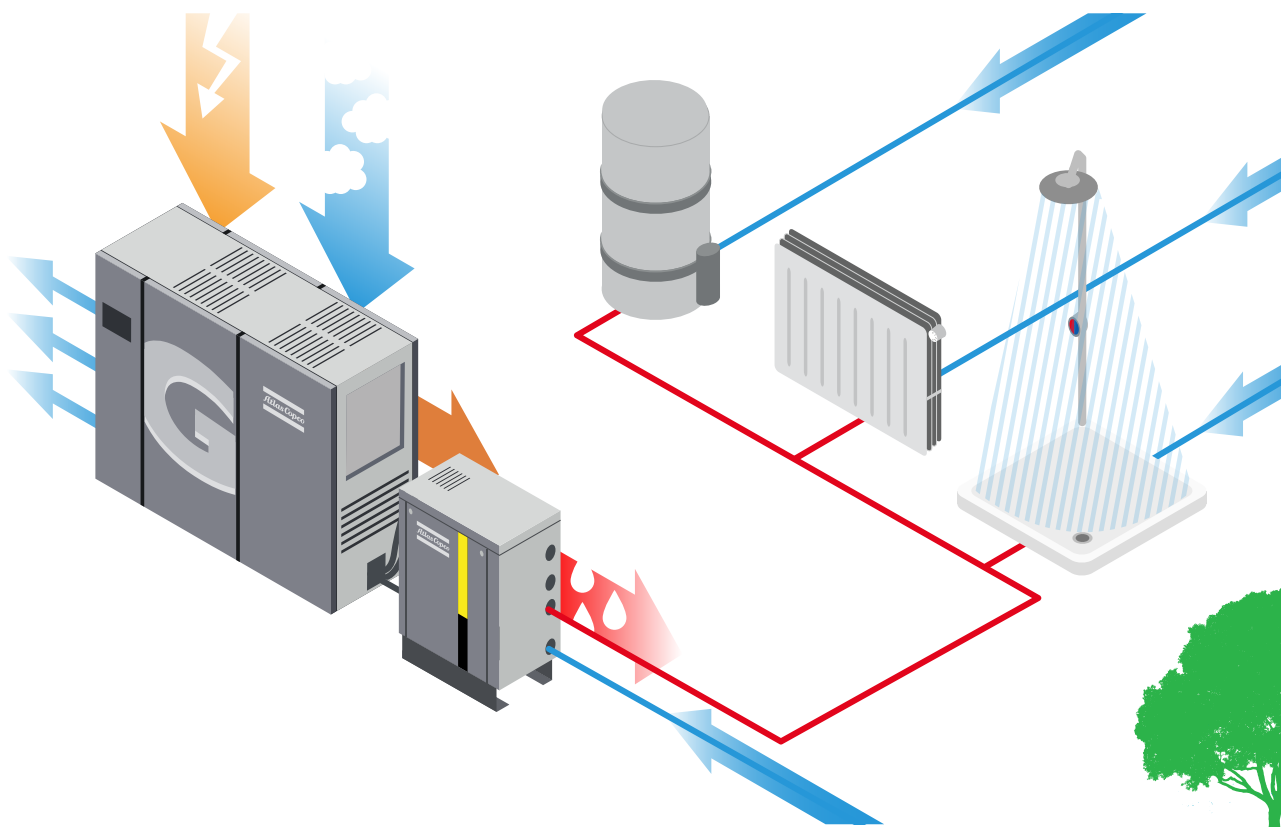
Up to 94% of the electrical energy is converted into compression heat. Without energy recovery, this heat is lost into the atmosphere via the cooling system and radiation.

Wouldn't it be great if we could recover that heat to reuse it in a cost-effective way?

Reduce energy consumption, eliminate emissions, save money.

Hot water recovered from the compressed air system can be used for sanitary purposes, space heating and is particularly suitable for process applications.

Using the hot water as boiler pre-feed or directly in processes requiring 70-90°C hot water can save costly energy sources such as natural gas and heating oil.



features and benefits

- By reducing the need for external fuel input for the processes and associated ancillaries (fans, pumps, ...) you save energy.
- Atlas Copco's Energy Recovery Unit has the smallest footprint allowing for easy installation. As the unit is fully pre-assembled, it is easy to connect.
- Plug, play and display: the energy counter exactly shows the energy savings, making it possible to communicate this with your back office.

Technical Data

An ER-unit on an Atlas Copco GA200 compressor operating 24/7, yearly saves about 654 ton CO₂. This corresponds with the absorption of a forrest of 65 acres or the planting of 15.000 new trees.



Type	GA, GA+ & GA VSD (nominal power)		Recoverable Energy	
	kW	hp	kW	hp
ER-S1	11	15	9	12
	15	20	12	16
	18	25	14	19
	22	30	18	24
	30	40	24	32
ER-S2	37	50	30	40
	45	60	36	48
	55	75	44	59
ER-S3	75	100	60	80
	90	120	72	97
ER-S4	110	150	88	118
	180	241	144	193
ER-S5	200	268	160	215
	315	422	252	388



ISO11011 compliant

Atlas Copco's AIRscan assessment method follows the ISO 11011 standard.

Related to ISO 50001 (a standard on Energy Management Systems), ISO 11011 sets a new, worldwide standard for energy audits on compressed air installations.

Before ISO 11011, energy surveys, air audits and data logging of compressed air usage could be provided by anybody. With no recognized standard, no wonder that results and findings varied widely.

Now, the energy audit process is standardised with guidelines that not only address the assessment of compressed air leaks, but also the competences and the methodologies of the assessor.





www.atlascopco.com/energysavings

COMMITTED TO SUSTAINABLE PRODUCTIVITY

As a true service partner we understand your need for reliable and efficient quality air solutions. It is our ambition to maximize the availability of your equipment at minimum total operating cost, making adequate use of resources. That is what we call sustainable productivity.

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