



VOLKSWAGEN: HEAT RECOVERY FROM TECHNOLOGY

Automotive

An installation of waste heat recovery to municipal District Heating Network (DHN).

| The challenge

Foundry Volkswagen Poznan is the largest foundry of cylinder heads in Europe. Produces annually 4.47 million components, while consuming more than 30 000 tons of aluminum.

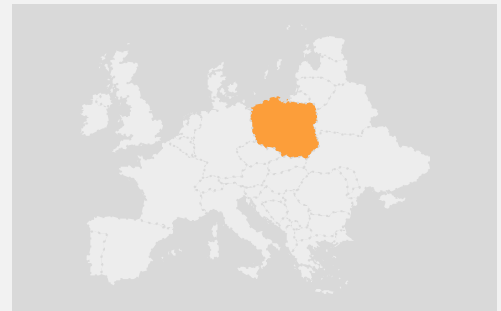
The client wanted to increase energy efficiency and reduce its environmental impact.

| Veolia's solution

An innovation on the scale of Central and Eastern Europe

Veolia Energy Poznań S.A. together with Volkswagen Poznań S.A. has implemented heat recovery from air compressors. The recovered heat is, through a specially designed substation, transferred into District Heating Network of Poznań, owned by Veolia.

Thanks to this solution Veolia can provide “zero-emission” heat to ca. 45 nearby buildings and has reduced carbon dioxide emissions into the atmosphere of 2,440 Mg/year and 3,200 t coal use reduction.



Poznań, Poland



Contract Facts:

Duration: since 2017
New contract from July 2021 for heat supply

Reducing the level of **CO2** emissions by about
2,440 Mg/year

Efficient management of the
56,000 GJ/year of reused heat

Saving water from the cooling process **17 M liters**



The entire project is the result of over two years of work the engineers of Volkswagen, Atlas Copco and Veolia.

- Investment in installation of heat recovery to municipal district heating system.
- Manage the use of waste heat.
- The sale of the recovered heat in the form of hot water.



| The benefits

- Reduction of CO2 emissions.
- Water savings.
- Reduction of production costs.
- Raising the guarantee of heat supply.
- Improved company image - less local emissions.

 <https://youtu.be/YwqgHyYOoPQ>

VEOLIA'S PURPOSE: committing to a multifaceted performance



SOCIAL

- Improved living conditions for residents.
- 45 residential buildings heated by local, emission-free and 100% renewable heat.



COMMERCIAL

- A positive impact on CSR.
- Operating cost savings.



ENVIRONMENTAL

- 2,440 t/year reduction in CO2 emissions and coal combustion reduction.
- 17,000 m³ /year of water saved.