VEOLIA ENERGIA POZNAŃ

Heat Recovery from air compressors to district heating: a unique Veolia project in Poland
Veolia solution: heat recovery from VW air compressors to the local DHN

- VW is an existing customer connected to the heating network:
  - 10 MW
  - 33,000 GJ / year
- 2014: replacement of the factory compressors with new ones, equipped with a heat recovery system:
  - 3 compressors; 1.8 MWt;
  - temp. 90/40 °C
- Waste heat production: 56,000 GJ / year
  - Recovered heat: 12,000 GJ / year
  - the aim: 25,000 GJ / year

Key numbers

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New project on the scale of Central and Eastern Europe
Veolia solution - scheme

**SAVINGS:** 17 000 000 dm³ H₂O/year

**SAVINGS:** 1200 CO₂/year

12 000 GJ/year
Project implementation

**Volkswagen:**
- recovery modules
- 2 substations
- 2xDN150 mm network, L = 600 m

CAPEX ca. 2,0 MPLN

**Veolia:**
- substation of cooperation with the heating network
- 2xDN150 mm network, L = 150 m

CAPEX approx. 0.6 MPLN

![Diagram of project implementation with timelines and milestones]
Benefits of the Project

For VW

- Reduction of CO2 emissions by about 1,200 t / a
- Water savings from the cooling process: 17 M liters per year
- Savings of PLN 500,000 / year
- Effective use of waste heat (heat demand of approx. 30 residential buildings)
- A positive image for the CSR policy

For Veolia

- Ensuring a long lasting customer relation and opening the door for further cooperation
- An innovative project implemented by a team of Veolia’s engineers
- A case with high replicability potential
Odnawiamy zasoby świata

VEOLIA