RE4Industry

Success Case Factsheet

THE THE PROPERTY OF THE PARTY O



BayWa r.e.

Target: Climate neutrality by 2030

Founded: Part of BayWa group (1923)

Products: End-to-end project solutions

Operations: BayWa r.e. active in Poland

Heidelberg Materials Cement Plant

Key information

- Solarpark Witnica is Poland's first industrial-scale, subsidy-free solar plant whose electricity is marketed through a long-term virtual power purchase agreement (VPPA).
- The VPPA was signed between Heidelberg Materials and BayWa r.e. for 10 years.
- The Witnica Project (solar park) is a significant step for Górażdże towards carbon neutrality.



Founded: 1873

Products: Aggregates, cement &

ready-mixed concrete

Target: Reduce CO₂ emissions by 400 kg/per ton of cementitious

material (by 2030)

Plant: Górazdze (constructed in 1977)

CO2 emissions at Górazdze: 2.73 Mton (2018)

Goradze Cement SA, Target: Carbon-neutral concrete by 2050,

Achieving to a reduction of specific net CO₂ emissions to below 525 kg per

since 2009

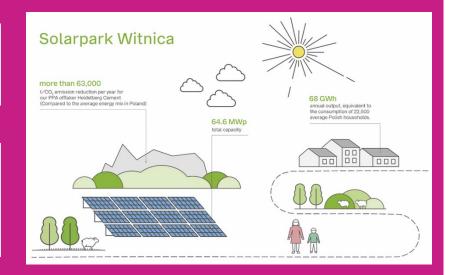
tonne of cement-based material.

Technical aspects

- Installation of 159,856 PV panels from Jinko Solar
- Electricity sourced by Alternus Energy
- BayWa r.e. provides operation and maintenance activities at Witnica site for Alternus Energy

Organisational aspects

- The electricity produced is virtually provided to Heidelberg Materials for a period of 10 years.
- BayWa r.e. is involved as energy producer and Heidelberg Materials as off-taker.
- The solar park was sold to Alternus Energy Group in 2021.



Environmental aspects

- 63,000 t CO₂ emission reduction
- 68 GWh electricity produced from RES annually
- Provision of grid-connected green electricity contributing to Poland's carbon reduction targets.
- Around 2,500 homes could be powered with the green electricity from the solar park .
- The VPPA represents a significant step in Heidelberg Materials' road to carbon neutrality in Scope 2 emissions.

Social & Marketing aspects

- The realisation of a solar park required extensive and detailed planning.
- The Environmental Impact Assessment was approved in 2014 by Urząd Miasta i Gminy, Witnica.
- Around 80% of Poland's electricity is powered by fossil fuels; however, the demand for renewables especially from the commercial and industrial sectors is growing day by day.











