

# 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 Górazdze towards carbon neutrality.



**Founded:** 1873  
**Products:** Aggregates, cement & ready-mixed concrete  
**Target:** Reduce CO<sub>2</sub> emissions by 400 kg/per ton of cementitious material (by 2030)  
**Plant:** Górazdze (constructed in 1977)  
**CO<sub>2</sub> emissions at Górazdze:** 2.73 Mton (2018)  
**Goradze Cement SA, Target:** Carbon-neutral concrete by 2050, Achieving to a reduction of specific net CO<sub>2</sub> emissions to below 525 kg per tonne of cement-based material.



**Founded:** Part of BayWa group (1923)  
**Products:** End-to-end project solutions  
**Target:** Climate neutrality by 2030  
**Operations:** BayWa r.e. active in Poland since 2009

## 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 CO<sub>2</sub> 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.

