



Amiblu®

Dolna Odra - Cooling Water Pipelines

Data

Mixed bi- and uniaxial system (used pipe sections transmitting both longitudinal and transverse forces).

Optimization of the costs of part of the investment.

Criteria:

- Endurance;
- Pressure pipes;
- Quality;
- Large diameter pipes.

Country City	Poland Dolna Odra
Year of implementation	2022-2023
Use	Energy
Length	2150 m
Nominal diameter	DN 2400, 1500, 800, 200 mm
Nominal pressure	PN 6 bar
Nominal Stiffness	SN 10000 N/m ²
Technology	Flowtite
Installation Type	Open Trench
	PGE Górnictwo i
Investor	Energetyka Konwencyjna S.A.
Executor	Polimex Mostostal S.A.

In 2022, Amiblu Poland delivered an underground cooling water pipeline system of GRP pipes for the newly built, two gas-steam power units (2x700MW) at PGE GiEK S.A. – Dolna Odra Power Plant Branch.

The deliveries included Amiblu Flowtite GRP pressure pipes and fittings with a diameter of DN 2400 mm. In total, over 2 km of GRP pipes DN 2400 PN 6 in a system of 4 parallel cooling water circulation pipelines and approx. 150 m of GRP pipes DN 1600 PN 6 in a system of twin recirculation pipelines were installed.

By using Amiblu GRP pipes, the designer was able to propose a mixed bi- and uniaxial system (i.e. use pipe sections that transmit both longitudinal and transverse and standard forces), thus significantly optimize the costs of this part of the investment.

In addition to the delivery of the above-mentioned pipelines, Amiblu Poland utilized over 150 pressurized, biaxial connections of laminated DN 2400 and DN 1600 pipes on the construction site, with the use of experienced teams of its own laminators.

The construction of the pipelines was under the continuous supervision of Amiblu, with oversight from our engineers, quality controllers, and health and safety teams. The pipeline design accounted for the high groundwater level and the short distances between the pipeline lines, which required maintaining an elevated backfill execution standard.

This successful project underscores Amiblu Poland's commitment to delivering high-quality solutions that meet both technical and operational requirements, contributing to the continued development and efficiency of the energy sector.

4 parallel cooling water circulation pipelines
DN 2400, PN 6

Contact

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