



Łukasiewicz

Institute
of Ceramics
and Building
Materials

CO₂

GREEN TRANSFORMATIONS
IN THE INDUSTRIAL SECTOR:
THE ROAD TO SUSTAINABLE
PRODUCTION

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PROCESS ENGINEERING RESEARCH GROUP

Development and diagnosis of solutions to support reducing the environmental impact of production processes:

- ✓ Determined environmental characteristics of products - life cycle analysis, preparation of Type III Environmental Product Declarations and carbon footprint report,
- ✓ identification of thermal and flow processes in building materials technologies, energy and heat engineering,
- ✓ technological analysis of the operation of the clinker firing plant (firing, cooling, milling),
- ✓ rationalization of raw material and fuel management in the building materials industry,
- ✓ Research in reducing the environmental impact of industrial installations,
- ✓ Performing technology audits in the building materials industry.

Developing solutions to support the mineral building materials industry's transformation toward decarbonization:

- ✓ Usage of alternative fuels in the production processes of building materials, in the energy and heating industry,
- ✓ recovery of low-temperature waste heat in industrial processes,
- ✓ use of renewable energy sources based on agri-food waste and biomass in technological processes,
- ✓ development of ways to produce and manage biocarbon.

GO GREEN!