



SWITCHING XPS FOAM PRODUCTION FROM F-GASES TO CLIMATE-FRIENDLY CO2 TECHNOLOGY

As of: October 2021

The project has supported the pilot conversion of a foam insulation production line from using climate-damaging HCFCs to CO2 technology. Participating companies received technical support and training. Priorities were economic efficiency and responsiveness to local needs. Furthermore, with assistance from the China Plastics Processing Industry Association, the experience gained was shared with other enterprises in this sector.

State of implementation/results

- Project completed
- Extruding system installed for the production of rigid extruded polystyrene boards (XPS); training provided on converting production to CO2 technology using local raw materials
- New procedure for the production of XPS boards since 2010; reduction of 2 million tonnes of CO2 equivalent achieved in 2011
- Two laboratory extruders supplied to specialised universities to further develop knowledge on the process
- Whitebook produced in Chinese on safety standards for installing XPS production facilities using CO2
- Experiences gained during the project shared with the assistance of specialised universities and the industry association
- Decision to convert the entire XPS sector taken by the Chinese Ministry for Environmental Protection on the basis of the experiences gained in the demonstration project; USD 50 million provided by the executive committee of the multilateral fund to finance a corresponding sector plan; this plan provides for the conversion of the 43 largest enterprises operating in the sector by 2015 (not part of the project)

PROJECT DATA

Country/Countries:

China

Implementing organisation:

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Political partner(s):

- Ministry of Ecology and Environment - China

Implementing partner(s):

- China Plastics Processing Industry Association - China
- Ministry of Ecology and Environment - China

BMU grant:

€ 3,100,001.27

Duration:

10/2008 till 10/2013

