

SPECIAL REPORT

April 18, 2025

The Hidden Climate Champion

5 Reasons FPIS Is a Vital Solution for Building Decarbonization

Foam plastic insulating sheathing (FPIS) is more than an investment in **ENERGY EFFICIENCY** — it's a solution that delivers sustainability, performance, and value.



1 ▶ EXCEPTIONAL CARBON PAYBACK

The carbon savings handprint of building insulation typically outweighs its carbon emissions footprint by 100x. In fact, building insulations like FPIS often offset their initial embodied carbon footprint within the first year of building operation, unleashing significant carbon emissions savings over the life of a building. See QR code below for more details.

2 ▶ BOOST TO ENERGY EFFICIENCY

These materials enable low-energy and net-zero buildings by significantly cutting heating and cooling demands, while working with reasonable profile thickness. Energy-efficient insulation is key to reducing overall energy consumption.

3 ▶ INNOVATIVE MANUFACTURING REDUCTIONS

Thanks to advancements in blowing agents with low global warming potential (GWP), the FPIS industry has cut emissions from production by 75–90% since the 1970s — far surpassing national decarbonization targets for building materials.

4 ▶ MULTIFUNCTIONAL PERFORMANCE

An FPIS product does more than insulate. It can act as a vapor retarder, water-resistive barrier, and air barrier. These multifunctional benefits reduce the need for additional materials, promoting resource efficiency and cost-effectiveness.

5 ▶ HOLISTIC CARBON REDUCTION

A total carbon approach shows FPIS products provide unmatched long-term savings by balancing both embodied and operational emissions. This ensures sustainable decarbonization without compromising on building performance.



CLICK or SCAN for a **FACTS Sheet**, substantiating research, and to learn more about the sustainability and decarbonization benefits of FPIS products.



**Foam Plastic Applications
for Better Building**

Owned and operated by the Applied Building Technology Group with support from the Foam Sheathing Committee (FSC) of the American Chemistry Council, continuousinsulation.org provides informational resources intended to assist the foam plastic insulating sheathing industry, using sound science to develop research supporting the reliable, efficient, and economic design and installation of foam sheathing.

Contact us.