



DOW

HFDD 4201: ENDURANCE™ breakthrough XLPE insulation

The new Dow Wire and Cable innovation for reliability with reduced emissions



Rapid urbanization, the growth of renewable energy and the upgrade of the existing grid are intensifying demand for reliable high-voltage cable systems. Cable manufacturers need solutions that enable faster cable production times, lower emissions and higher transmission rates.

Innovative disruption

Current cross-linked polyethylene insulation systems require degassing periods of up to a few weeks to reduce the methane content that is typically generated as a by-product. This extends production cycles and increases business costs.

Dow's novel cross-linked polyethylene, HFDD 4201, generates less methane, which reduces degassing time to as little as one day, creating business efficiencies while lowering associated emissions. Up to 32 km of EHV cables have been extruded in a single campaign, thus reducing cost-intensive downtime events.

Key benefits

Dow's new solution, HFDD 4201, transforms the cable manufacturing process with shorter cycle times in the manufacturing process as well as added sustainability benefits.



Excellent electrical and mechanical properties enable ageing stability that satisfies international standards.



Increased manufacturing efficiency leading to decreased inventory costs and higher factory production enabled by quick degassing and long extrusion run lengths.



Lower emissions due to reduced greenhouse gas emissions during cable production.



Greater reliability means that cables operate for decades, fulfilling the Dow ENDURANCE™ promise.



ENDURANCE™ HFDD-4201 Powered by Ecolibrium™, a bio-based version for addressing the industry needs for lower carbon footprint compounds.

Get in touch with one of our representatives if you are interested in working with us to develop a more efficient and more sustainable cable manufacturing process for your products.

About Dow

Dow (NYSE: DOW) combines global breadth; asset integration and scale; focused innovation and materials science expertise; leading business positions; and environmental, social and governance leadership to achieve profitable growth and help deliver a sustainable future. The Company's ambition is to become the most innovative, customer centric, inclusive and sustainable materials science company in the world. Dow's portfolio of plastics, industrial intermediates, coatings and silicones businesses delivers a broad range of differentiated, science-based products and solutions for its customers in high-growth market segments, such as packaging, infrastructure, mobility and consumer applications. Dow operates manufacturing sites in 31 countries and employs approximately 37,800 people. Dow delivered sales of approximately \$57 billion in 2022. References to Dow or the Company mean Dow Inc. and its subsidiaries. For more information, please visit www.dow.com or follow [@DowNewsroom](https://twitter.com/DowNewsroom) on Twitter.

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