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Sky-Walls Unveils Smart Façade Module That Reduces Energy Use in Glass Towers at Intersolar 2025 / A Game-Changer in High-Rise Sustainability for Smart Cities



Munich, Germany (ots) -

Cleantech innovator **Sky-Walls Ltd.** is set to debut its revolutionary **Autonomous Façade Module (AFM)** at **Intersolar Europe 2025**, offering a radically new approach to energy efficiency in glass-clad skyscrapers. The patented smart module now also available in a **photovoltaic-integrated version (AFM-PV)** transforms passive curtain walls into active, climate-responsive systems.

High-rise buildings, iconic for their glass facades, are among the most energy-consuming structures in the built environment. Sky-Walls' technology addresses this architectural paradox: how to preserve transparency and daylighting while drastically reducing HVAC loads and emissions.

"Our module uses AI and controlled airflow to adapt the thermal behaviour of the glass in real time," says **Hilany Yelloz**, CTO at Sky-Walls. "It makes the building envelope itself intelligent-cooling or retaining heat as needed. This can reduce heating and cooling energy consumption by up to 30% annually."

Key Highlights of Sky-Walls' AFM Technology:

- **Adaptive Air Cavities:** Switch between insulation and ventilation on demand
- **AI-Powered Thermal Logic:** Autonomous heat retention or rejection, based on real-time indoor/outdoor conditions
- **BIPV Integration (AFM-PV):** Combines solar electricity and thermal energy generation with active cooling for up to 15% more PV output
- **Zero External Power:** Fully self-sufficient using energy harvested from the PV module itself
- **Ideal for Spandrels in Curtain Walls:** Makes non-transparent facade areas productive and energy-intelligent

Sky-Walls was founded in 2020 by entrepreneur **Oren Aharon**, and has since received multiple public innovation grants recognizing the technology's potential to dramatically cut building-related emissions.

With commercial pilots planned and certification pathways underway, Sky-Walls' solution is primed to support **LEED**, **BREEAM**, and **Net-Zero** initiatives across global cities.

Visit Sky-Walls at **Hall C6, Booth 474** at Intersolar 2025 to experience the next generation of energy-smart facades.

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Visualizing the concept: the black stripe integrated into the façade shows the location of the Sky-Walls module. / Weiterer Text über ots und www.presseportal.de/nr/179605 / Die Verwendung dieses Bildes für redaktionelle Zwecke ist unter Beachtung aller mitgeteilten Nutzungsbedingungen zulässig und dann auch honorarfrei. Veröffentlichung ausschließlich mit Bildrechte-Hinweis.

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