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ABB launches innovative EcoFlex eHouse

The EcoFlex eHouse is a new family of productized modular eHouses designed to accommodate a range of applications from the most common industry segments.

In contrast to a traditional eHouse, which is developed as a bespoke solution on a project-by-project basis, the EcoFlex eHouse is derived from a selection of existing designs, then combined together onsite, to create a larger eHouse solution to meet project-specific needs. As such, the EcoFlex eHouse typically would be less expensive and less risky to transport, can offer substantially reduced lead times and even offer project savings due to reduced need for engineering and site works.

This new eHouse product is a modular solution of preconfigured engineered designs. It is specifically designed to allow customers the ability to select from a library of pre-engineered modules, utilizing just one module or combining any number of modules together to accommodate larger applications. Robust in design and construction utilizing design concepts proven in the harshest of environmental conditions, the EcoFlex eHouse is ideal for remote locations, rough environments, temporary or permanent power installations and applications requiring fast supply and installation.

“The EcoFlex eHouse was designed as an innovative solution to provide flexibility for our customers,” said Alessandro Palin, managing director of ABB’s Medium Voltage business. “Being modular in design, and offering various options per module, these configurations can be combined to suit common project requirements. This sits perfectly with the rest of the Modular Systems portfolio and delivers an economical solution that customers expect from us.”

The EcoFlex eHouse is designed to be easily and economically transported via traditional methods. Also, due to its modularity, it is easily installed onsite as pre-tested complete modules.

EcoFlex, in accordance with ISO/1161, is provided with corner fittings for lifting and transport. Enclosure standard dimensions are according to ISO 1496-1. EcoFlex is constructed with steel frames, full vertical corrugated steel side and end walls, steel flooring, die-stamped corrugated steel roof and corrugated double hinged doors. All the steelwork is constructed by semi-automatic and automatic MIG arc welding. All exterior welding seams, including that on the base structure, are continuous to give perfect watertightness.

EcoFlex has variants suited to a vast array of applications from various segments, including but not limited to, renewables, infrastructure, EV charging, utilities and even mining and oil & gas. EcoFlex is supplied globally to markets adopting the IEC standards, though there is the possibility it can accommodate other local standards where these are aligned or overlap with IEC.

The EcoFlex eHouse is designed to strengthen the ABB Modular Systems portfolio. It does not replace ABB’s existing eHouse offerings, but rather provides an alternative for situations that are able to move to a more standardized solution, that can be flexible in the project specification or perhaps don’t yet have a specification.

ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in electrification products, robotics and motion, industrial automation and power grids, serving customers in utilities, industry and transport & infrastructure globally. Continuing more than a 125-year history of innovation, ABB today is writing the future of industrial digitalization and driving the Energy and Fourth Industrial Revolutions. ABB operates in more than 100 countries with about 136,000 employees. www.abb.com

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