Copco energy storage systems

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The systems, which have been designed with sustainability in mind, are suited to noise-sensitive environments, such as events, metropolitan construction sites, telecom, manufacturing, mining, oil and gas and rental applications, and enable operators to dramatically reduce their fuel consumption and CO2 emissions.

The additions to Atlas Copco"s portfolio include a larger ZBC 300-300 unit and a smaller line of battery-based storage systems, the ZPB 45-60, ZBP 45-75, ZBP 15-60 models, and the ZBP 2000 with two flexible solar panels.

With a complete offer of ESS, users will now benefit from increased flexibility and versatility in their operations, with both stand-alone and hybrid solutions across their sites.

"Our customers are increasingly seeking clean energy solutions to be more sustainable and efficient in their operations," explains B?rbara Gregorio, marketing manager Power & Energy at Atlas Copco"s Power and Flow Division.

Added Gregorio, "The move towards battery storage solutions is a natural evolution for us and we have continued to develop the ESS portfolio using the best battery technology for our targeted applications, making the benefits of clean power available to more applications and for new opportunities in our sector."

These energy storage systems are ideal for applications with a high energy demand and variable load profiles, as they cover both low loads and peaks. For example, they can properly size cranes and other electric motors, and successfully manage peaks in energy demand for noise-sensitive events and for electric vehicles (EV) recharging stations.

Furthermore, operators can synchronize several models, which can become the heart of any microgrid, storing and delivering energy coming from several energy sources, including renewables.

The small ZBP units - the ZPB 45-60, ZBP 45-75 and ZBP 15-60 - present a new design, are modular, mobile, and up to 70% lighter in weight than other battery systems, and so can easily be moved around site to provide clean and quiet energy where required.

They are ideal for applications such as events and telecom, and can work alone in island mode, or can be coupled with a diesel generator to provide a hybrid solution with significant energy savings.

The ZBP models are easy to use and install and have lower maintenance needs than a standalone diesel generator, which translates into a reduced total cost of ownership (TCO).

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Featuring high-density Lithium-Ion batteries, these energy storage systems provide over 12 hours of power from a single charge, and they can be fully charged in less than one hour (depending on the model).

ZBP 2000 is a fully sustainable portable solution as it comes with two foldable solar panels which could be used to recharge the unit in great weather conditions or to maintain a proper battery level during less efficient production days.

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