

Warehouse energy power

From environmentally friendly packaging to low-carbon freight delivery, green supply chain practices have revolutionized the logistics industry in line with global efforts on sustainability, while helping companies bolster their profits.

And as the green movement in logistics continues to gain momentum, proponents are turning to the next big item on the agenda: energy-efficient buildings and warehouses.

The industrial sector consumes more than half the world's total energy on the back of growing economic activity, which means there is plenty of room for improvement.

In fact, a 2017 report by the International Energy Agency (IEA) showed that the construction of high-performance buildings and deep energy retrofitting of existing buildings globally is expected to reap almost 330 Exajoules (EJ) in cumulative energy savings by 2060. This would be more than the combined energy consumed by all the G20 countries in 2015.

By tapping on artificial intelligence (AI) and the Internet of Things (IoT), energy intelligence and automation firm BeeBryte wants to help businesses adopt green building practices with zero set-up costs.

"Let's put it this way: the IEA considers that more than 80 percent of existing buildings' efficiency potential remains untapped," noted BeeBryte founder and co-Chief Executive Fred Cramp.

"Addressing the problem would reduce energy bills for consumers by more than US\$500 billion (EUR450.6 billion) per year and cut air pollution in cities -- a key issue for many countries."

Of this, lighting and refrigeration or cooling equipment stand out as the biggest power guzzlers, sometimes accounting for as much as 80 percent of the total energy consumption. Inefficient use of energy further compounds the problem.

To improve energy efficiency in buildings, BeeBryte leverages IoT, AI and a patented optimization technology to anticipate thermal needs in buildings and control existing cooling systems in a smarter way.

Its smart heating, ventilation and air-conditioning (HVAC) unit control and optimization software then automatically adjusts the HVAC setpoints in real time to minimize energy consumption.

By anticipating changes in weather conditions, building occupancy and business activity, BeeBryte's software not only runs cooling systems in a more efficient way, but also extracts additional value like power peak shaving and price arbitrage if the warehouse is exposed to variable electricity rates.



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This translates into 40 percent energy cost savings while processes and temperatures are kept within a preferred operating range predetermined by the warehouse energy manager.

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