

## Paris microgrid benefits

IEEE Smart Grid presents a Special Issue on the Paris Climate Agreement and the Role of the Smart Grid which features "The Paris Climate Agreement and the Role of the Smart Grid", "Smart Grid and Zero-Emissions Energy Systems: The Need for a Multi-Dimensional Investment Planning Perspective", "A Commercial Microgrid to Benefit All - The David Johnston R+T Park Microgrid", and "Enabling an Interactive Grid: A Strategic Vision for Interoperability".

The June 2018 issue of the IEEE Smart Grid Newsletter offers a glimpse of what that role is and how it may be described from three different but equally important perspectives.

It is very interesting to notice that the three articles in this issue take on the matter from the conceptual perspective, the view of a regulated path forward that can facilitate replicability, and the cost-benefit assessment aspect that ensures the viability of the smart grid paradigms at hand. Hence, as a side-note that one should take out of this issue, is that there is a thread running from idea to commercialization, which ensures that from any starting point we need to work together in the smart grid community to bring to fruition our long-term aspirations.

To view archived articles, and issues, which deliver rich insight into the forces shaping the future of the smart grid. Older Bulletins (formerly eNewsletter) can be found [here](#). To download full issues, visit the publications section of the IEEE Smart Grid Resource Center.

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The IEEE Smart Grid Bulletin Compendium "Smart Grid: The Next Decade" is the first of its kind promotional compilation featuring 32 "best of the best" insightful articles from recent issues of the IEEE Smart Grid Bulletin and will be the go-to resource for industry professionals for years to come. [Click here](#) to read "Smart Grid: The Next Decade"

The microgrid market has evolved in the past decade, offering the benefits of emergency backup generation to customers who can't afford site-specific and complicated engineered systems of the past. Until now, modular microgrids have proven to be a low-cost, long-term solution offering tremendous resilience.

Schneider Electric has been expanding the concept to data centers with an energy-as-a-service provider, AlphaStruxure. This guide will assess the value of green microgrid solutions as EaaS around the world. First, here is a brief overview of Energy-as-a-Service (EaaS) by AlphaStruxure:



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EaaS transfers the burden of owning, installing, managing, and financing energy from your firm to AlphaStruxure through long-term investment. AlphaStruxure owns, builds, designs, and manages energy systems, with your organizational success its priority. Without requiring any capital outlay, EaaS provides you with the power to enhance your efficiency and productivity, putting your organization in a much better position to achieve your cost, resilience, reliability, and sustainability goals.

In the past 15 years, energy costs in the US have seen an unprecedented increase, with some states experiencing up to 63% rise in retail electricity rates. The Associate State Director of AARP Texas, Tim Morstad, predicts many retail customers will suffer outrageous increases in rates in the upcoming times, and the most vulnerable customers of retail energy providers are the ones who've subscribed for the variable-rate plans that increase and decrease based on market fluctuations.

If you compare the current scenario in the US with that of the past, extreme weather conditions have become a new norm, accelerating the annual cost of severe weather to over \$300 billion, with unplanned downtime rising up to \$17,244 per minute.

Consider the recent power outages in Texas (Feb 2021) resulting from frigid, icy weather. According to Global News, the conditions caused power outages to spread throughout the state, cutting off over 4 million people. Grocery stores were forced to close down and hotel rates skyrocketed. Although the emergency has subsided, more preparation is needed for similar situations in the future.

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