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Nahi testified that the increased deployment and integration of smart solar, storage and energy management technologies can help modernize and stabilize the utility grid with a high degree of reliability. "It is my opinion that solar and other energy technologies will play a fundamental role in the new energy economy, as a result of our ability to innovate and scale, resulting in highly cost competitive, reliable and secure energy generation," he said.

Acknowledging that the company"s "number-one job is to help provide clean affordable and renewable energy while increasing grid stability," Nahi also emphasized to the committee "the urgent need to increase the security of our energy supply. Energy security is fundamental to the health of our country. It must be recognized that new, clean energy resources can play a significant role in "enhancing" our energy security."

Enphase Energy delivers energy management technology for the solar industry that increases energy production, simplifies design and installation, improves system uptime and reliability, reduces fire safety risk and provides a platform for intelligent energy management. Our semiconductor-based microinverter system converts energy at the individual solar module level and brings a systems-based, high-technology approach to solar energy generation. Connect with Enphase on Facebook and follow us on Twitter.

In August, the Bureau of Overseas Buildings Operations (OBO) installed its first ever large-scale renewable battery energy storage system at the new U.S. Embassy in Niger. The installation enhances the campus"s energy efficiency by maximizing the storage and use of solar power and marks a crucial step in the Department of State"s efforts to advance sustainability and resilience at diplomatic posts overseas.

The newly installed battery containers maintain a capacity of 1.5MWh and assuage the embassy"s dependence on diesel fuel, allowing the facility to power the site primarily with a clean, renewable power supply.

The power control system is intelligent and continuously calculates the batteries" charging and discharging, and monitors utility and generator contributions. The embassy can now operate at full load with lower utility demands, saving direct power and reducing demand charges by modulating the battery and solar output and ensuring a smooth transition among power sources when clouds impact PV power generation.

The installation was completed with the help of the embassy contractor B.L. Harbert International, their sub-contractor for electrical engineering, RME Electric, and Solar Design Associates. After the successful installation of renewables in Koror, Palau, galvanizing the first net-zero energy embassy, OBO is poised to leverage this new technology to support more locations with green battery storage and renewable energy operations.

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