Florida microgrids berne

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You may be surprised to learn that Florida is the third largest electricity producer in the U.S. The state is in a virtual tie with California and only the two combined can top Texas. After those three is a pack of seven, followed by the remaining 40 states and Washington, D.C.

So, where does the energy go? As we look at Florida energy consumption, Florida has the largest percentage of homes in the nation that gets both residential cooling and heating from electricity. It"s the only state wherein more than 50% of electric consumption is for residential homes. Commercial sources are next at approximately 40%, and industry and other make up the balance of energy consumption.

Energy consumption remains high in both summer and winter seasons. In the summer air conditions naturally peak in the afternoon, while in the winter heating and cooking tends to adjust increase in the mornings and evenings as residents begin and end their day.

Unlike Texas and California, which participate in ISO (Independent System Operators) or RTO (Regional Transmission Organizations), Florida does not belong to a regional grid operator. Most of the state’s transmission system is self-contained within its narrow landmass.

Many of these utilities participate in a wholesale power pool known as the Florida Municipal Power Pool (FMPP). FMPP is updating its operating plans and procedures to add additional ancillary services. The new ancillary services are needed to accommodate the growth in solar power and the retirement of coal generation in Florida.

By 2030, FMPP foresees that solar power will be 32% of its supply replacing the retired coal units with reliability supplied from additional combined cycle units and 5% battery storage. This change in portfolio mix will greatly increase variability in real-time operating hours, hence the need for a modification to how it defined and manages ancillary services to ensure grid reliability.

Florida’s rapid population and economic growth over the decades have led to expansion of its electricity demand. The state will need to continue adapting its generation and grid capabilities to meet evolving residential, commercial, and industrial needs -- a key part of managing Florida energy consumption.

Emerging technologies like electric vehicles, energy storage, microgrids, and distributed energy resources will shape the future Florida electric grid. Proactive planning and investment will help ensure Florida’s electricity remains reliable, sustainable, and affordable.

Explore how our innovative solutions are shaping the future of energy in Florida and beyond by visiting our Portfolio Optimization page and learning more about GenTrader, which improves your organization"s near

real-time decision support, forecasting, long-range planning, and analytics.

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