

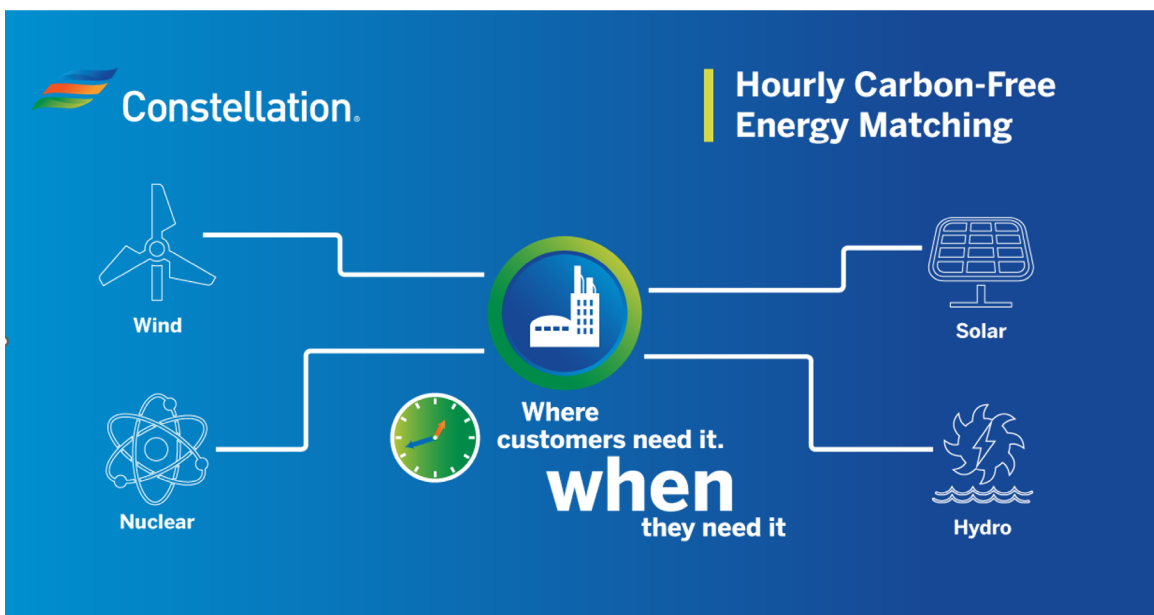
Hourly Carbon-Free Energy Matching



In recent years, companies began looking for ways to reduce their carbon footprint to mitigate climate change. This goal is often achieved by matching energy use, on an annual basis, with energy attribute certificates (EACs) such as renewable energy certificates (RECs) or emission-free energy certificates (EFECs) to reach a net zero carbon footprint.

These traditional procurement strategies often leave gaps between when and where the carbon-free energy (CFE) was generated versus when and where it was consumed. For example, a facility may purchase enough EACs from a solar facility to match their aggregate usage on an annual basis, but they still rely on carbon-emitting energy sources, like coal or natural gas, to provide energy in the overnight hours when solar output is unavailable. An hourly CFE strategy ensures the equivalent emission-free energy was created in the same hour as the customer's electricity was used.

Transformation in clean energy procurement allows customers to match electricity demand, hour-by-hour, with carbon-free electricity generation from within the same region as the buyer's operations.



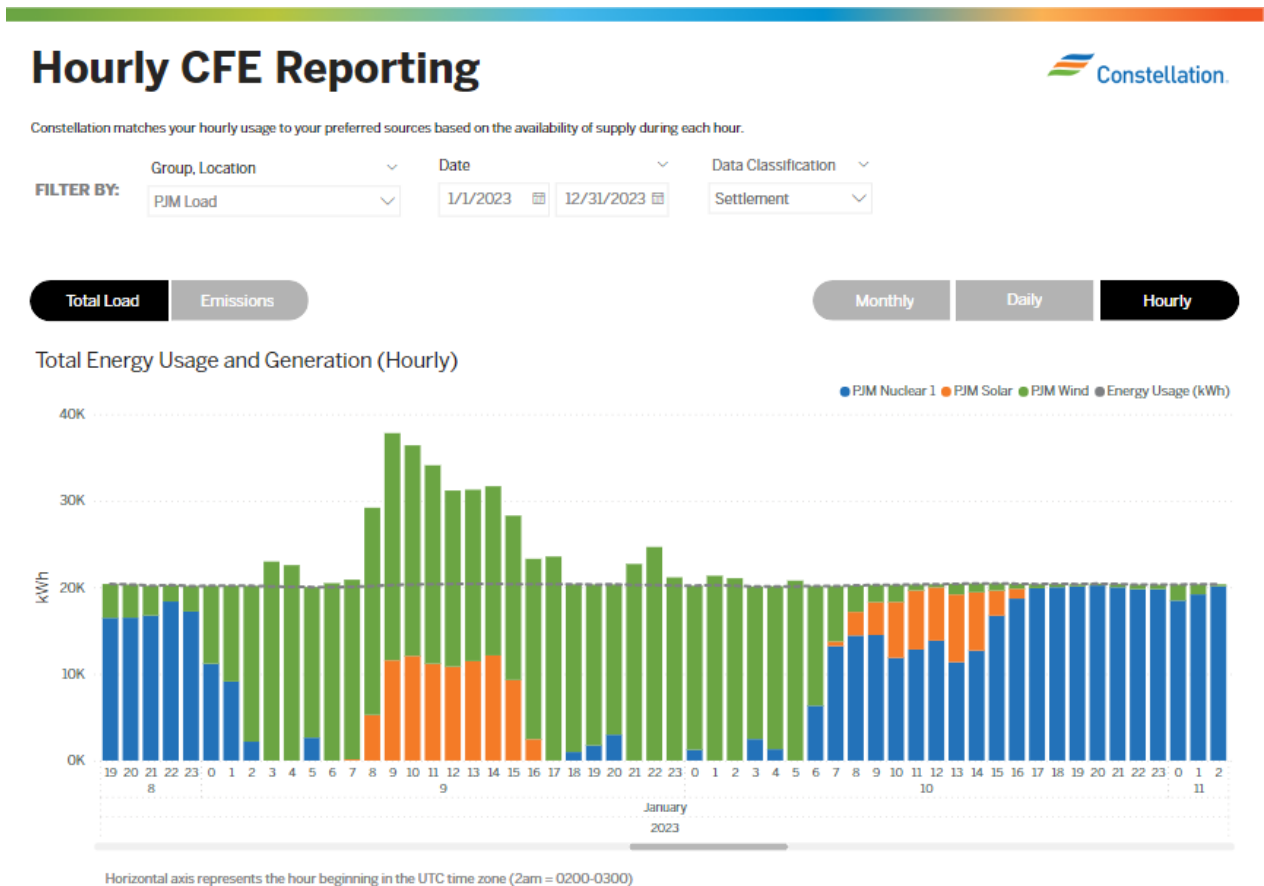
To achieve a true hour-by-hour CFE supply, customers need to understand:

- Granular electricity usage trends.
- CFE supply that is available at times and locations as needed.
- How local emissions rates change throughout the day.

From here, a strategy can be developed to optimize the alignment of hourly matching with demand and minimize the emissions impacts from energy consumption.

- An hourly matched carbon-free energy supply agreement can help advance grid reliability in future low-carbon environments.
- An hourly matched carbon-free energy supply contract is a natural evolution for end-users seeking a decarbonized grid.
- Advancements in carbon-free and renewable attribute tracking, as well as emphasis on the time and locational needs, enable a carbon-free electricity market to provide more accurate signals for the deployment of new resources.
- Hourly matched CFE supply agreements are pushing greenhouse gas (GHG) accounting to evolve and recognize the added benefits of real-time matching with consumption.

Constellation can help with a diverse portfolio of carbon-free energy generation and a best-in-class commercial team. Leveraging our hourly carbon-free energy matching platform, developed in partnership with Microsoft, we work to match customer usage up to 100% of every hour with time-aligned CFE generated in the same grid. This demonstrates that the energy used is carbon-free every hour of the day and is truly supporting the transition to a reliable and decarbonized electric system.



Constellation’s hourly carbon-free matching helps you take control of your energy supply at the hourly level and drive reductions in your carbon footprint. Key features include:

- Match results reported on-demand through a dynamic dashboard in Constellation’s online portal.
- Benchmark against marginal and average hourly emissions impacts.
- Hourly EACs are retired in PJM GATS or other applicable EAC registries.
- Hourly CFE may be added to any of Constellation’s existing electricity supply products including fixed or index.
- Simple to add to a preexisting contract or start at the beginning of a new contract.
- Flexible term lengths typically range from 12 to 60-months.

www.constellation.com/24x7

