

# Hourly EACs

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### Hourly EACs Support the Evolution of Clean Energy Procurement

- 24/7 Hourly CFE brings focus to the technologies, policies, and market mechanisms needed to balance carbon-free generation and load and to reliably and affordably decarbonize the U.S. electric grid
- Buyers, generators, and policy makers need a more robust way to track progress toward decarbonization in every hour of the year





## The Hourly EAC Ecosystem Is Developing Rapidly



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### Annual RPS Is Unlikely to Eliminate Carbon Emissions from Electricity Consumption

- For example, a Maryland RPS load match with renewable generation equal to 100% of load on annual basis will only match about 74% of hourly load
- The hourly time-match of renewable generation begins to deviate from the annual total at a roughly 50% annual RPS target
- The declining load match of each increment of renewables above 50% demonstrates the diminishing effectiveness of a renewable-only program



#### MD Cumulative Load Match

Annual clean energy procurement targets offering diminishing returns



### Tracking Systems Are Taking Up the Challenge

Tracking System	Resources Tracked	Number of RE Generating Facilities*	Hourly Functionality Available	Current Plans to Implement or Expand Hourly Tracking
PJM-GATS	All	364,936	Yes	Yes
M-RETS	RE and alternative energy	3,402	Yes	Yes
WREGIS	RE	10,140 (includes ~160,000 aggregated DG units)	No	Yes
ERCOT	RE	381	No	Yes
NAR	RE	884	Yes (Pilot)	Still in pilot
NYGATS	All	1,957	No	No
NC-RETS	RE	1,393	No	No
MIRECS Source: CRS, updated to	RE o reflect recent initiatives	241	No	No

\*Figures as of May 2023



### The Next Step

- Customers are looking beyond annual procurement of clean energy and unbundled clean energy attributes towards supply options that match generation with hourly consumption
- Markets, policy, and infrastructure are evolving to enable or require hourly clean energy products, but more work needs to be done
- ISO-NE is already a leader in tracking all generation sources. Tracking hourly attributes is the next step

### Hourly CFE Enables Deep Decarbonization



