## CHP TAPs Engagement Role in Facilitating New Grid Markets for CHP Services

By Tom Bourgeois Director U.S. Department of Energy's New York New Jersey Combined Heat and Power Technical Assistance Partnership (NY/NJ CHPaħ&R) seph O'Brien Applegate NY/NJ CHP TAP. March 6, 2022

As states move towards a decarbonized futsing nificant changes the grid will benecessary accommodate foundational shifts in the generation supplymix.

New York Stateaw, and similar legislation sourch reseined arroades olar the tools used by grid operators

At a recent webinar Mike Swider, Senior Market Design Specialist at the New Wepleholent Syst Operator (NYISO) delivered an informative and illuminating presentdesoribingseveralNYISO Market Initiatives with potential implications for CHP

3

The grid of the future will be dominated by variable energy resources. CLCPA redubire New York Public Service Commission (NY PSC) to establish a program by June 30, 2021 to get the State to 70% renewable electricity consumption 2030 and 100% "clean energy" (including nuclear) electricity by 2040.<sup>4</sup> There are certain functions, importato reliability needs that cannot be performed by variable energy resources a consequence of the ignificant and rapid deployment of variable grid resources the NYISOs looking at comprehensive changes to how they pay for Resource Adequacy

With the anticipatedasset mixin New York Mr. Swider of the NYISO states that electricite lifewill be relatively cheapOn the other hand, the demandfor and the prices paid to a variety of reserves will be

<sup>&</sup>lt;sup>1</sup> Contact Tom Bourgeois <u>Bourgeois</u> <u>Baw.pace</u>, <u>(914)</u> 3911804 or (914) 422013

<sup>&</sup>lt;sup>2</sup> New York State law mandate@0% zerecarbon electricity by 2040

<sup>&</sup>lt;sup>3</sup> Grid in Transition: DEFRs and Dispatchab**Witk**e Swider Senior Market Specialist, NYISO. Prepared for Northeast CHP Initiative (NECHPI) Webinar CHP's Role in Decarbonization. January 27, 2022 https://www.dropbox.com/s/pkxkk6e9mgwoj57NYISO\_GIT\_DEFR\_CHP\_Final.pdf?dl=0

<sup>&</sup>lt;sup>4</sup> New York State approves first expedited power transmission project, supports renew@absed 22 November 2020 by Kevin Adler, Chief EditedlS MarkitSource<u>https://cleanenergynews.ihsmarkit.com/researchanalysis/newyork-state-approvesfirst-expeditedpower-project.html</u>

quite high as the services they provible come ever more critica This will represent a revenue opportunity and one that wilbe developing in the near future

Swider noted that within the class of dispatchable resources, the most reliable resources are those that are already online for example agenerator that is connected to a load and able to inject power into the grid taking a signal sent to the generator by the grid opera to a participants who provide grid services will be pa