FEDERAL UTILITY PARTNERSHIP WORKING GROUP SEMINAR

November 7-8, 2019 Washington, DC

DOE's Packaged CHP eCatalog

Hosted by:

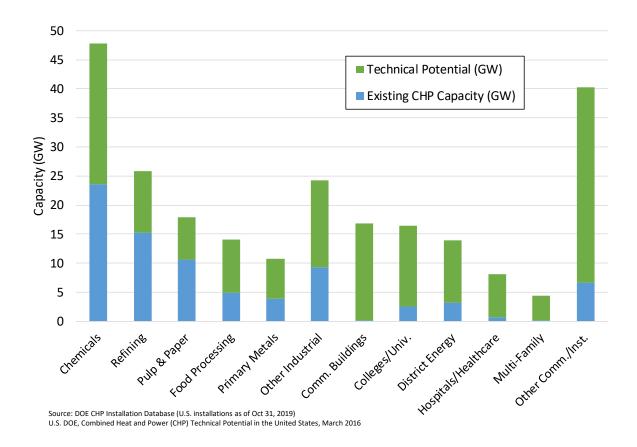




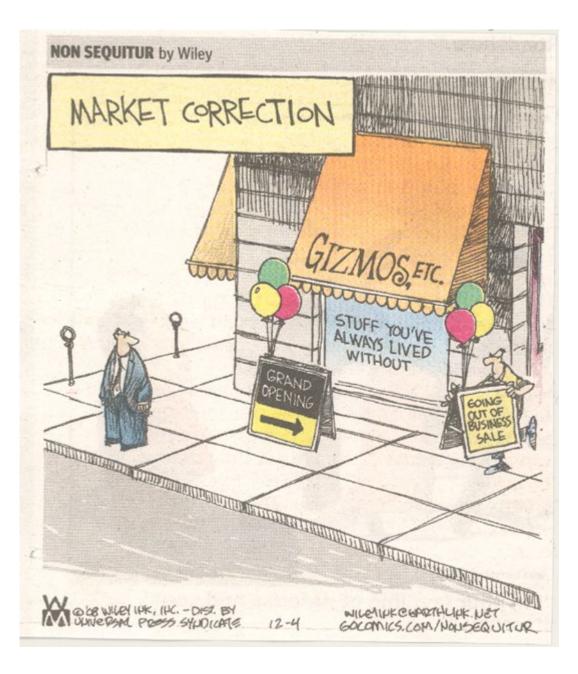
INSTITUTE

Non-Traditional CHP Markets Are Growing

- Large CHP potential in light manufacturing, commercial, institutional, government and military applications
- Markets utilize smaller systems (< 10MW)
- Markets have limited CHP experience
- Users have limited technical resources
- History of issues with system performance and with CHP sales and service support
- Many perceived risks by both users and suppliers



Non-traditional markets represent 35% of the capacity and 70% of the projects installed since 2008.



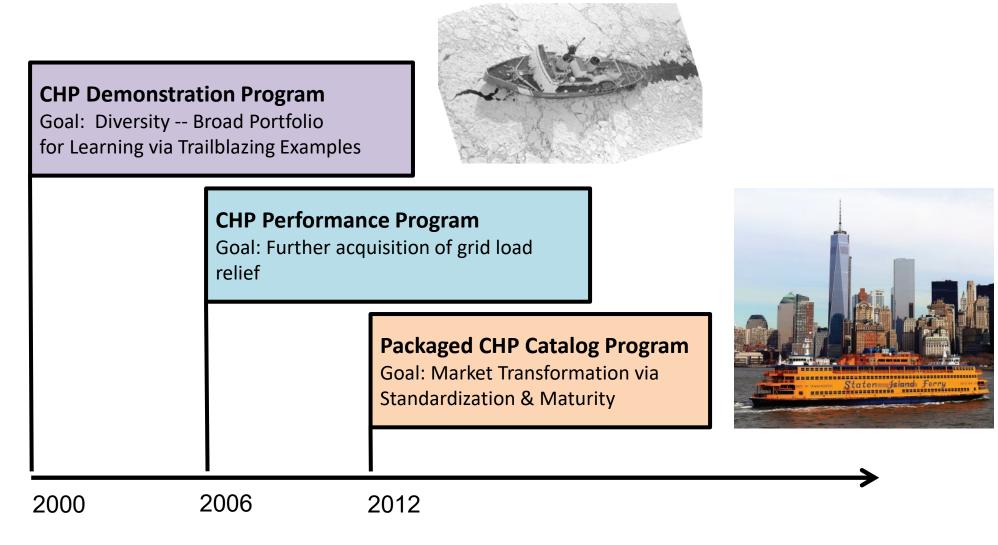
Challenges

- CHP viewed as a discretionary purchase
- Lack of user awareness / understanding
- Under-developed sales and service infrastructure
- Every installation is considered unique
- High soft costs
- End-user responsibility





NYSERDA's CHP Program Evolution







DOE eCatalog Builds on NYSERDA's Packaged CHP Program

- Realign the way CHP deals are transacted in the marketplace to:
 - Achieve genuine cost reductions
 - Increase consumer confidence
- Facilitate customer acquisition to reduce marketing / soft costs and early-stage project development
- Facilitate replicable project designs to reduce design errors, associated performance losses, and re-work expenses
- Reduce uncertainty for consumers and suppliers



Specific Objectives of NYSERDA's CHP Program

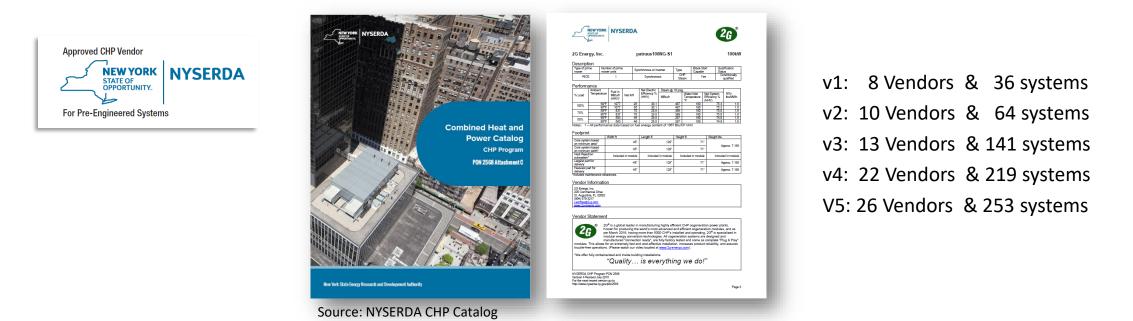
- Educate the market on the benefits of CHP
- Prime the pump to grow market to scale
- Attract focus of world-class solution providers
- Coach customers to have mature expectations
- Groom a cadre of competent solution providers to be able to deliver
- Help the market learn how to reduce costs and capture alternative sources of market-based compensation (displacing need for subsidies)
- Provide consumer protection to ensure high-quality installations





NYSERDA's Packaged CHP Catalog Program

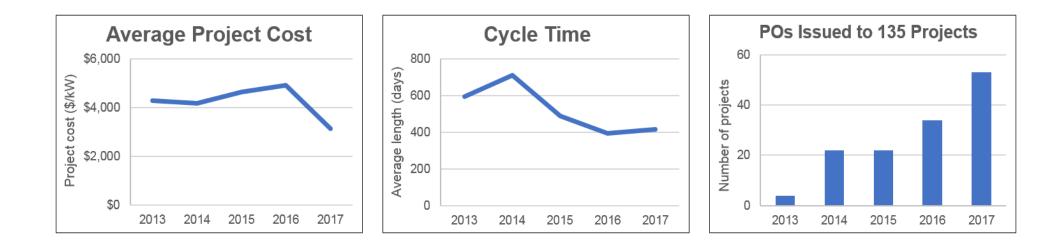
NYSERDA Packaged CHP Catalog - Reduce perceived risk of installing and operating CHP by offering comparable standardization of CHP systems and field service agreements.



- Independent endorsement based on in-depth analytical review
- Single-point-responsibility as the basis for customer-vendor relationship
- Comparison shopping to promote competition and expand offerings

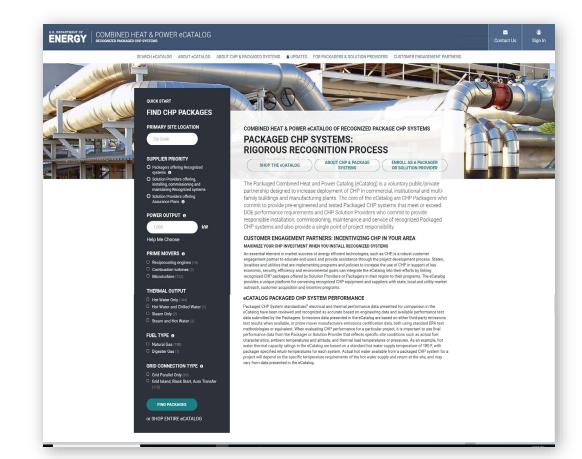
NYSERDA CHP Program Successes

- Commoditization of offerings and expansion of options
- Project cost reductions and time compression
- Increased program uptake
- Less dependent on subsidies (incentives ramping down over time)



DOE Packaged CHP eCatalog

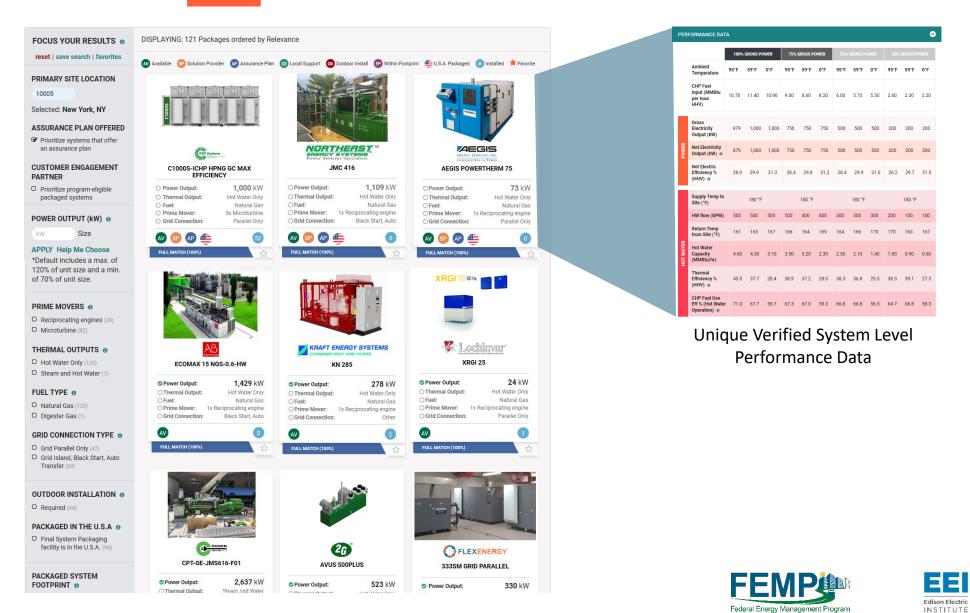
- Reduce Risks for end-users and vendors through a combination of a national web-based catalog (*eCatalog*) of DOE-recognized packaged systems and suppliers, and state/utility partners with CHP market engagement programs
- End-users and design engineers search for applicable CHP system characteristics, and get connected to packagers, installers and CHP engagement programs
- Allows users to compare technology options on a common basis



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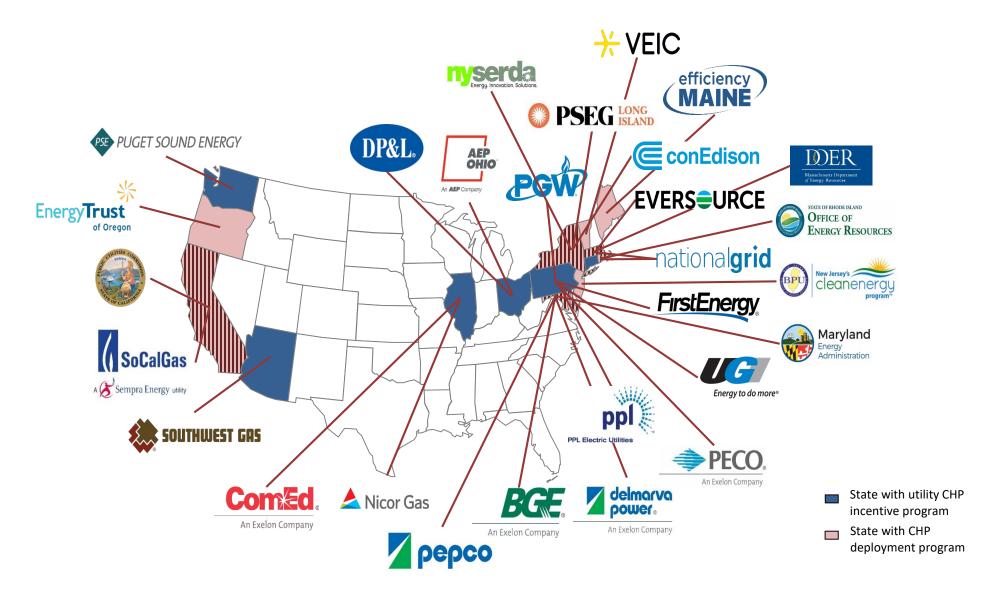
DOE Packaged CHP Accelerator

Better Buildings Accelerators demonstrate, catalyze and validate innovative approaches to increase investment in efficient energy technologies.

- A venue to populate and launch the Packaged CHP eCatalog success requires state/utility market engagement programs to promote CHP deployment, publicize the eCatalog, and provide technical and market assistance
- CHP Supplier Partners CHP system packagers and solution providers participating in the national *eCatalog* of packaged CHP systems
- CHP Engagement Partners Utilities, federal agencies, states, cities or other market entities committed to promoting packaged CHP (via the *eCatalog*)



State and Utility CHP Programs are Growing



Questions

https://chp.ecatalog.lbl.gov/

https://betterbuildingsinitiative.energy.gov/accelerators/packaged-chp



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