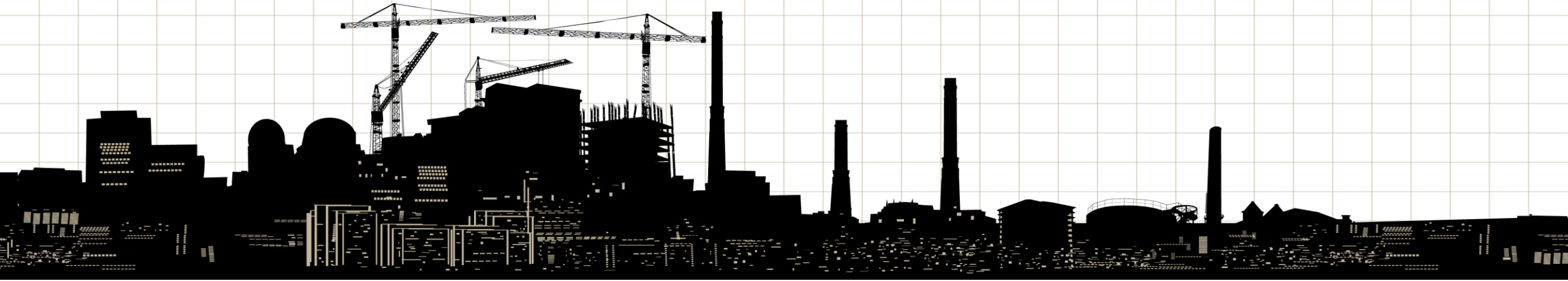




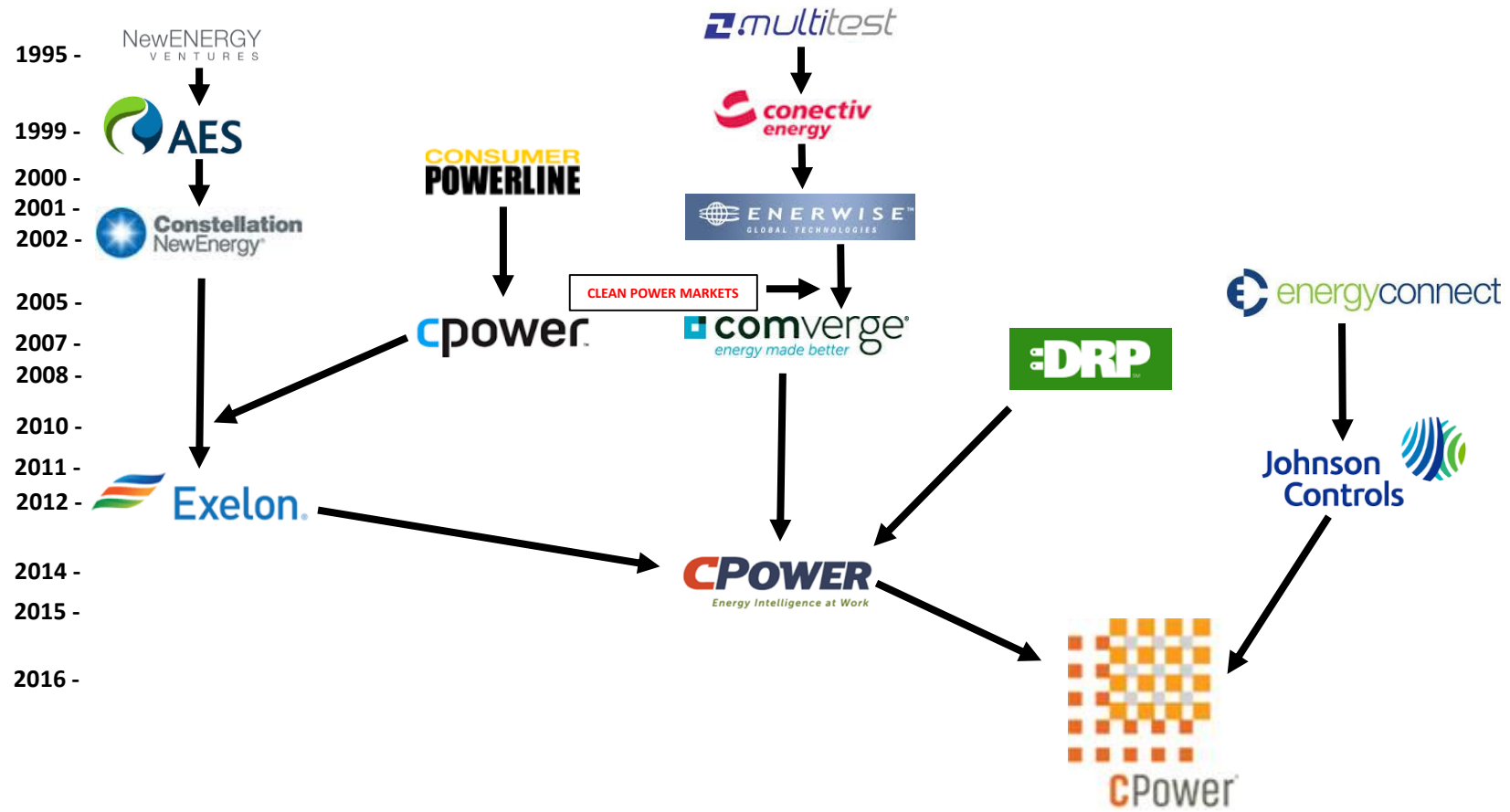
Chicago Advanced Energy Hospital Energy Roundtable

CPower Demand Response

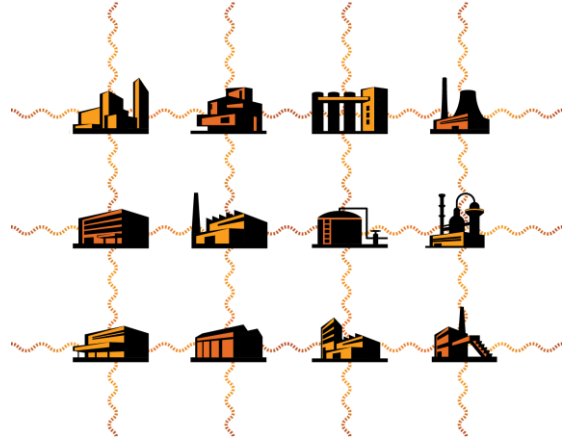
November 30, 2016



CPower History



What is Demand Response?



Your customers and facilities are plugged into the energy grid along with hundreds of thousands of others. **At certain times, the demand on the grid begins to outpace the supply of electricity which can cause blackouts or brownouts.** These are potentially a risk to companies' operational continuity and even national security.

That's where **CPower** comes in.

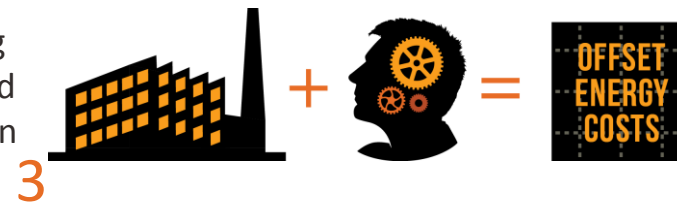


We help organizations like yours and your customers participate in Demand Response programs which pay businesses for using less energy when the grid is stressed and conserve energy at peak times, which can mean major savings on utility costs. CPower and our team of energy experts work with you to identify where you and your customers can curtail your energy usage and still meet your needs to run your business. We develop a customized curtailment strategy designed specifically for you.



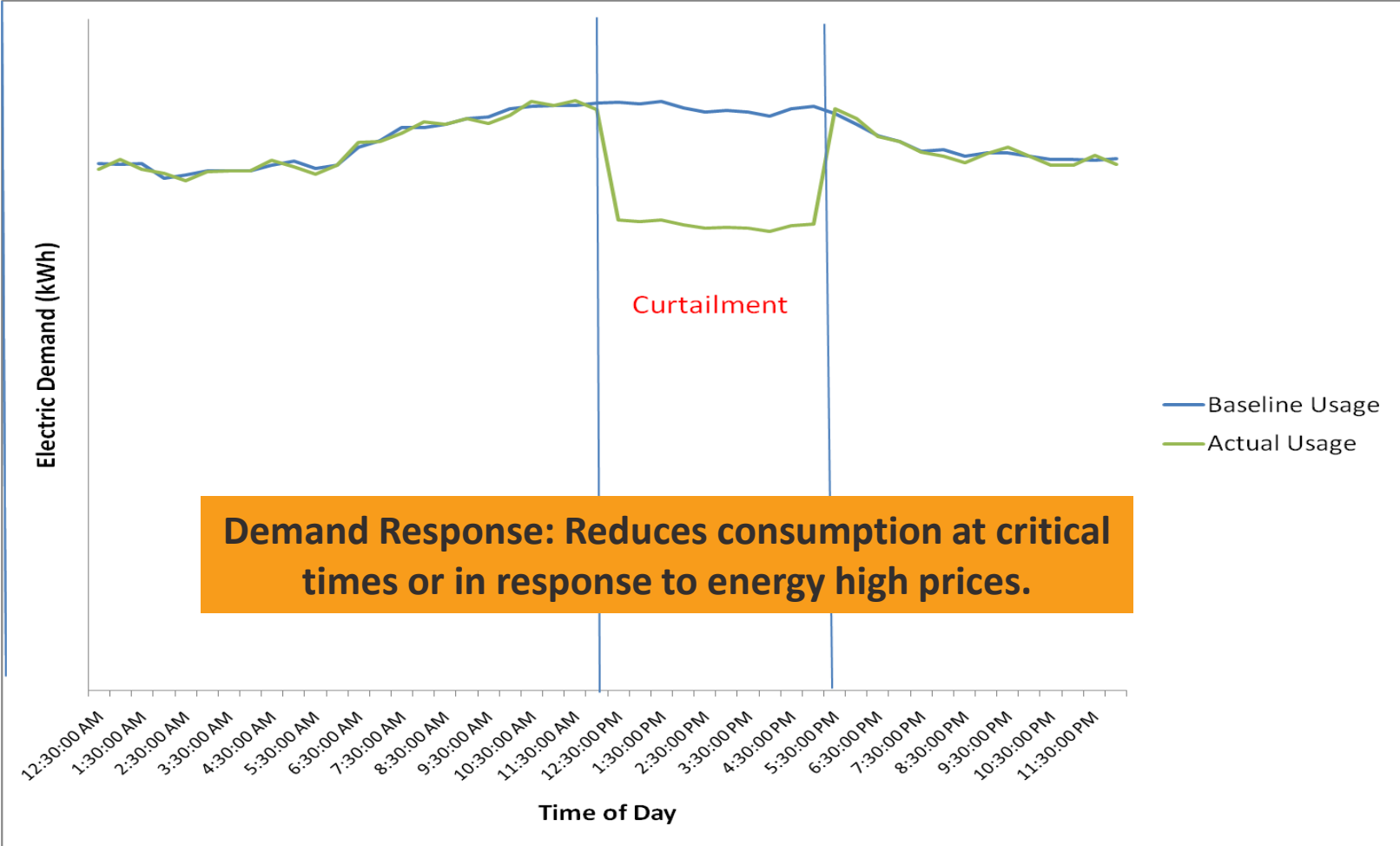
When the grid is stressed, which is usually only a few times a year, our dispatch team sends a notification to your customers. In response, **your customers reduce their usage** for a specified period of time **by enacting their curtailment plans, that we help create.** They then **get paid** for the energy they didn't use.

CPower also works with you and your customers on an ongoing basis to find more they can do to reduce their energy usage and improve their Demand Response performance, so they can earn even more money.



Demand Response

How DR works



Demand Response

Primary energy resources used in DR



Lighting Reduction



A/C Strategy



Backup Generation



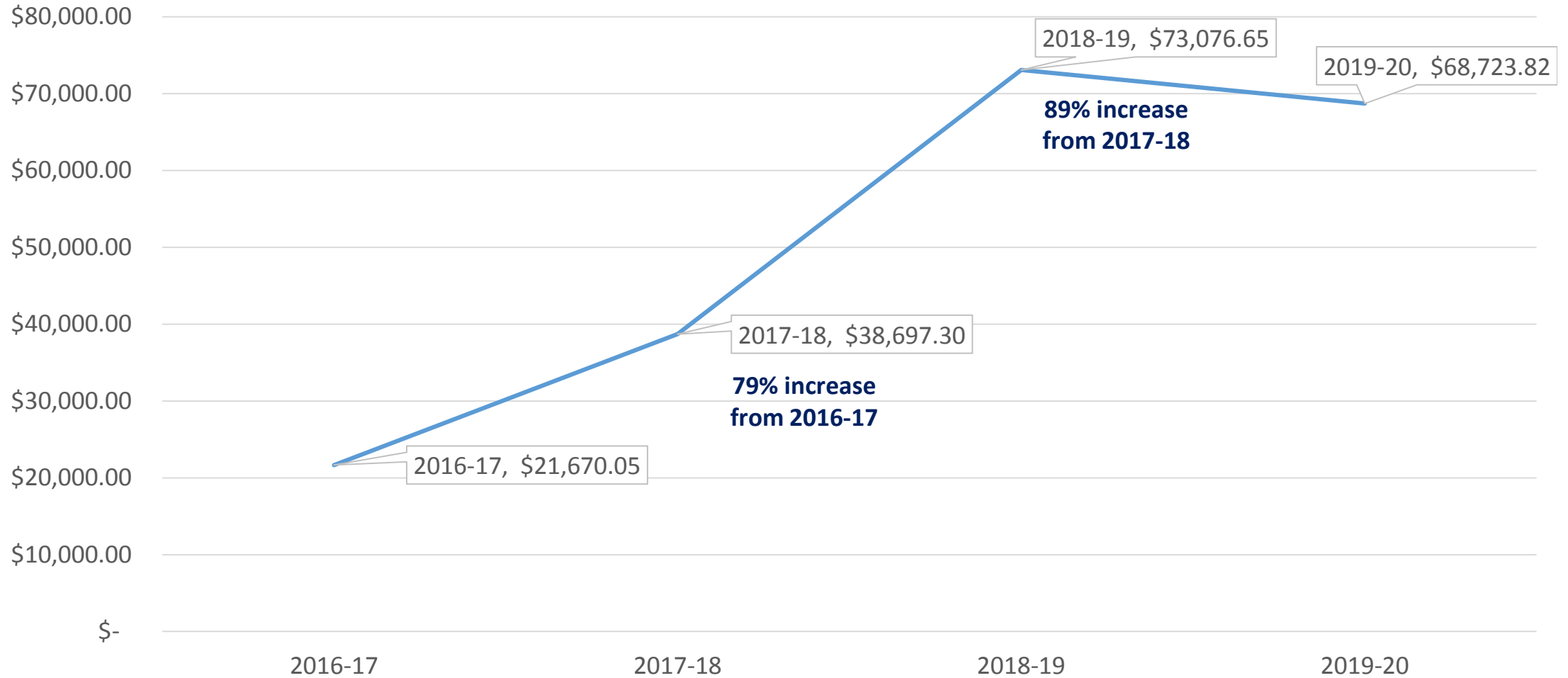
Elevator Cycling

- Manual or Automatic Load Drop
- Energy Management Systems
- Load Shedding Strategies
- Lighting Control Strategies
- Backup Generation
- Ice Storage Systems

Generator Use in DR

- The use of generators for DR is becoming more difficult due to EPA rule changes in 2016.
- With the generator specifications and permits in hand, CPower can determine the eligibility for use in DR of any generator.
- CPower can also determine what changes would be needed to be eligible for a non-compliant generator to be used.
- Current rules for NEWLY installed generators require they meet the Tier 4 emission standard to be used in DR.
- The cost of the emission controls can typically be earned back in 2 years of DR participation.

PJM DR Full BRA \$/MW-Yr for Summer Program in ComEd by Year 2016-2020



Energy is forever in motion.
At CPower, we never stop moving in our pursuit
to help your organization master its energy spend.



Rocco Venuto
847-707-9568

Rocco.Venuto@CPowerEnergyManagement.com

cpowerenergymanagement.com