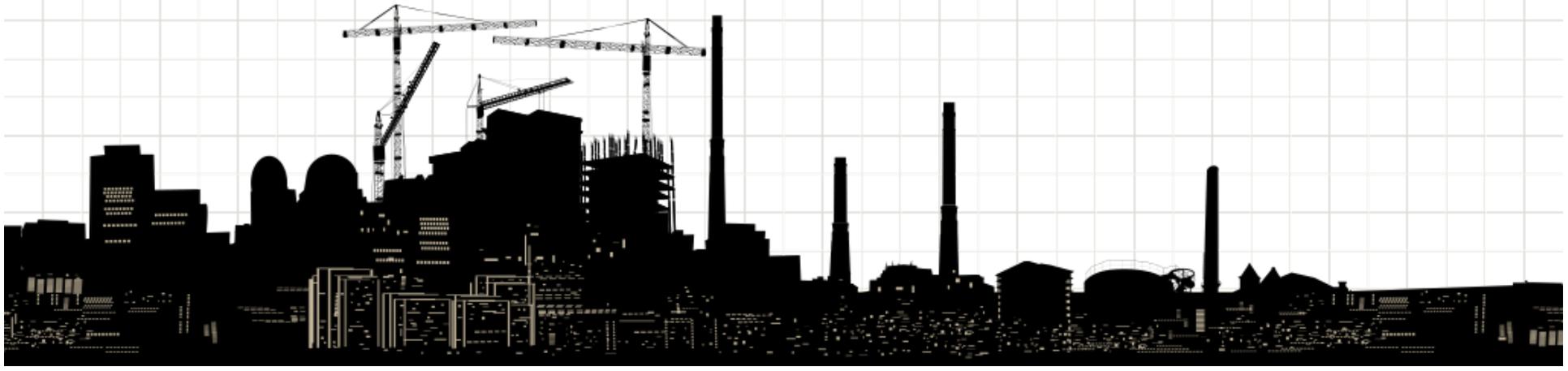




Pennsylvania ACT 129 Utility Program

Presented by: CPower



AGENDA

- What is ACT129 ?
- Key players
- Program details
- Implementation Details
- Additional information
- Questions



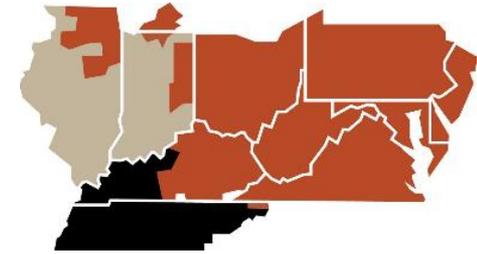
Act 129 OVERVIEW



- On Oct. 15, 2008, Governor Rendell signed HB 2200 into law as Act 129 of 2008, with an effective date of Nov. 14, 2008. The Act expands the Commission's oversight responsibilities and imposes new requirements on electric distribution companies (EDCs), with the overall goal of reducing energy consumption and demand.
- ACT 129 is a PA legislation requiring EDCs to cost-effectively reduce electricity consumption and peak demand on their systems
- It is not a PJM managed program
- PUC contracted with a Statewide Evaluator to assess cost effectiveness and provide guidance on the program, but each utility has its own programs and implementation specifics
- The program has two components: Demand Response and Energy Efficiency
- The program is currently in Phase III
- The program is funded by monthly Energy Efficiency and Conservation (EE&C) charges on customers utility bill.



Act 129 OVERVIEW



- Phase 1: November 2009 - May, 2013

Act 129 became law and required PA Electric Utilities with over 100,000 customers to reduce electricity consumption to the following:

- 1% energy reduction by May 31, 2011 (Energy Efficiency)
- 3% energy reduction by May 31, 2013 (Energy Efficiency)
- 4.5 % reduction in peak demand on system between June 1, 2012 and September 30, 2012, in the 100 hours (Load Drop or Demand response)

- Phase 2: June 1, 2013 to May 31, 2016

Energy Efficiency requirements only, no DR goals

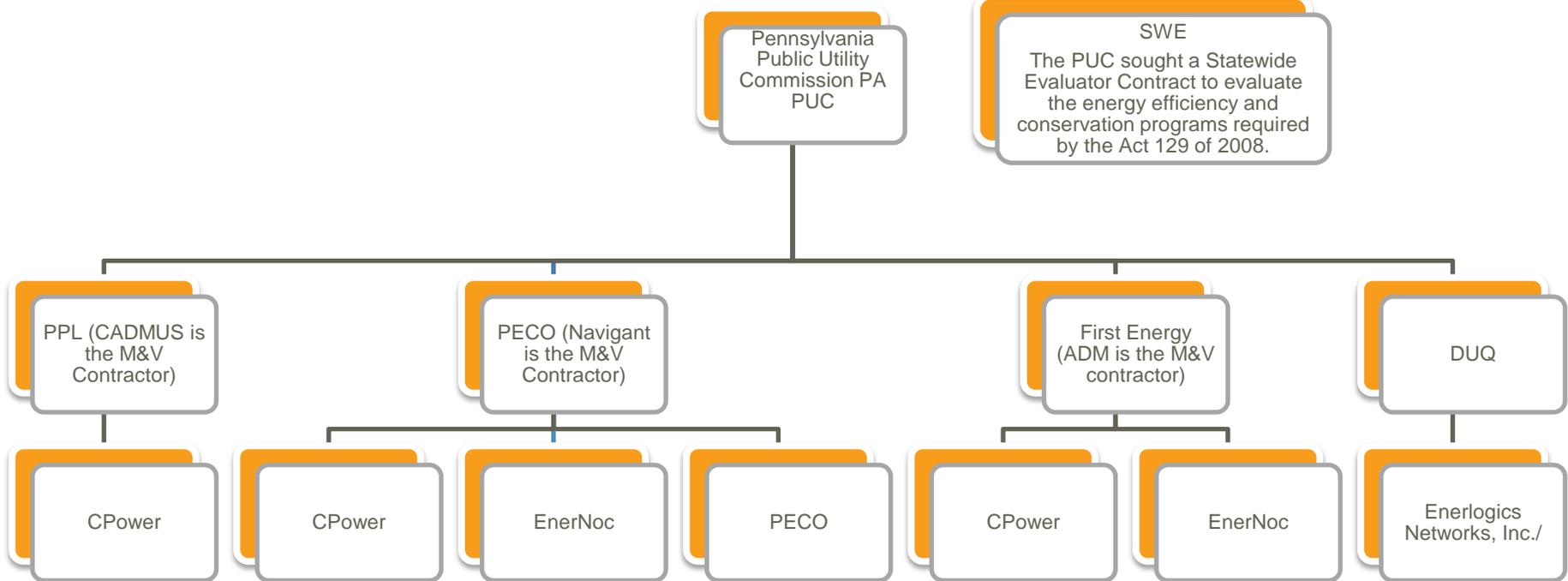
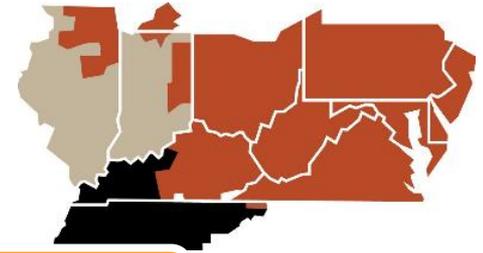
- Phase 3: June 1, 2016 to May 31, 2021 (performance years 2017 through 2020)

Renewed the Peak Load Management requirement for utilities that passed the Total Resource Cost (TRC) test to analyze the costs and benefits of the energy efficiency and conservation plans:

- PPL
- Met-Ed
- West Penn Power
- Penn Power
- Duquesne Light
- PECO
- Not Penelec



Act 129 key Players



*CSPs must be registered Conservation Service Providers with PUC



Program Details: Utilities Goals and Measurements

Utility	Demand Response Annual Goals (MW)
PECO	161
PPL	92
West Penn Power	64
Penn Power	17
METED	49
PENELEC	0
DUQ	42

- The EDC Compliance determined based on average MW reductions over the 4 performance years.
- The EDC must obtain no less than 85% of the target in each event.
- Overall Compliance is based on average performance over the performance years with penalties of between \$1MM and \$20MM if performance fails to meet targets.



Program Details

Program Attribute	Description
Participation Period	June 1 - September 30
Dispatch Criteria	Day Ahead forecast over 96% PJM RTO summer peak demand
Event Days	All non-holiday weekdays between Jun. 1 and Sep. 30
Event Notification	EDCs will use the 9:45 am forecast when determining whether the following day will be a DR event
Event Duration	(4) consecutive hours
Max. Number of Events	(6) events per summer - maximum
Performance Measurement	Avg. MWh reduction per hour

- Customers can participate in PJM Capacity and ACT129 Events simultaneously, different CBLs

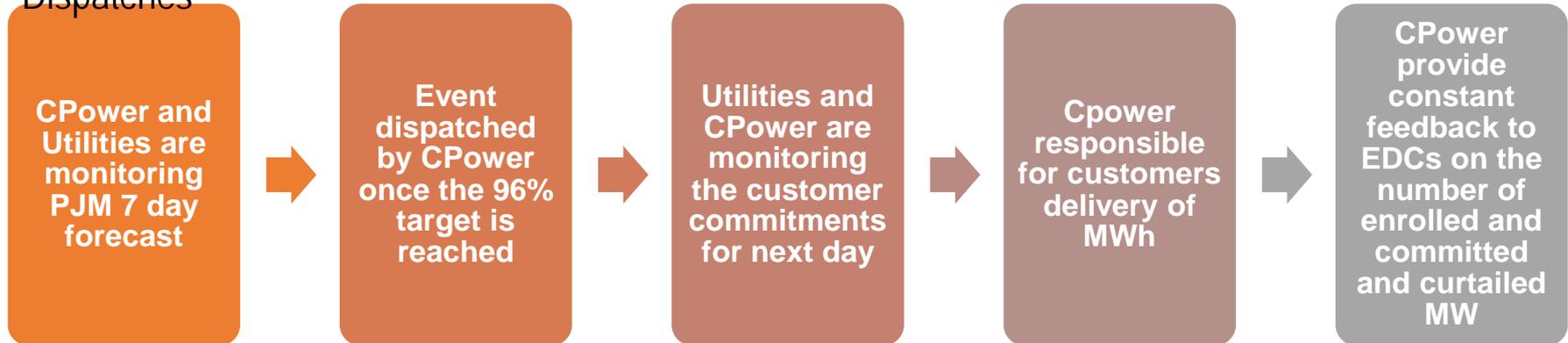


implementation Details: contracts and Dispatches

Contracts



Dispatches



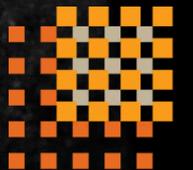
Implementation Details: M & V

- CPower worked with EDC on defining acceptable CBLs
- Each EDC has it's own CBL methods
- CPower worked with each customer and EDCs on setting CBLs that would be accepted by their M&V contractor and SWE
- Utility Provided meter data in many cases for Performance calculations
- Cpower calculated customer performance which was reviewed by the M&V contractor of each EDC



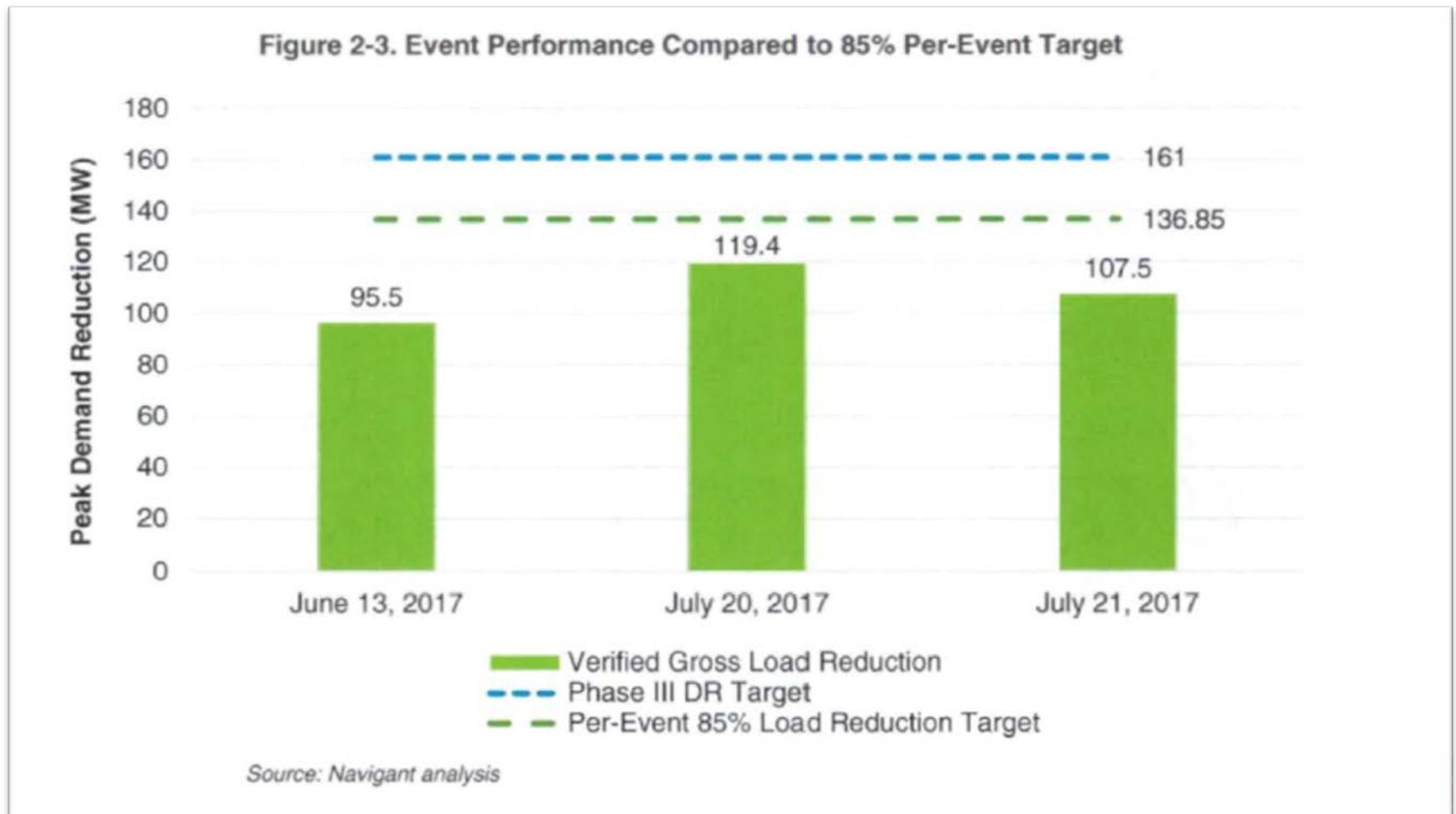
2017 Summer Events

- 3 ACT129 events occurred in the summer of 2017:
 - June 23, 2017
 - July 20, 2017
 - July 21, 2017
- All 3 days corresponded with PJM 5 CP days.

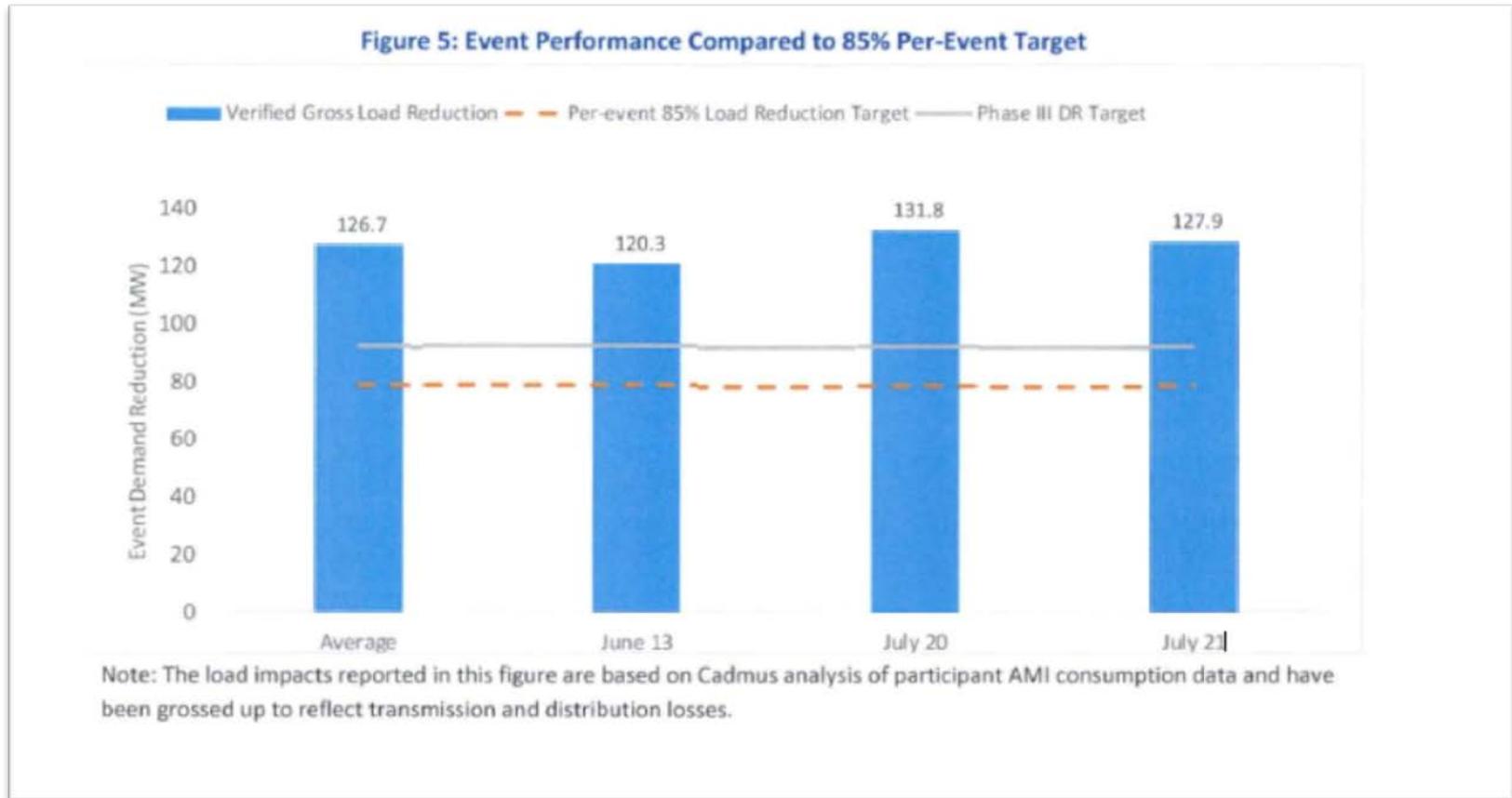


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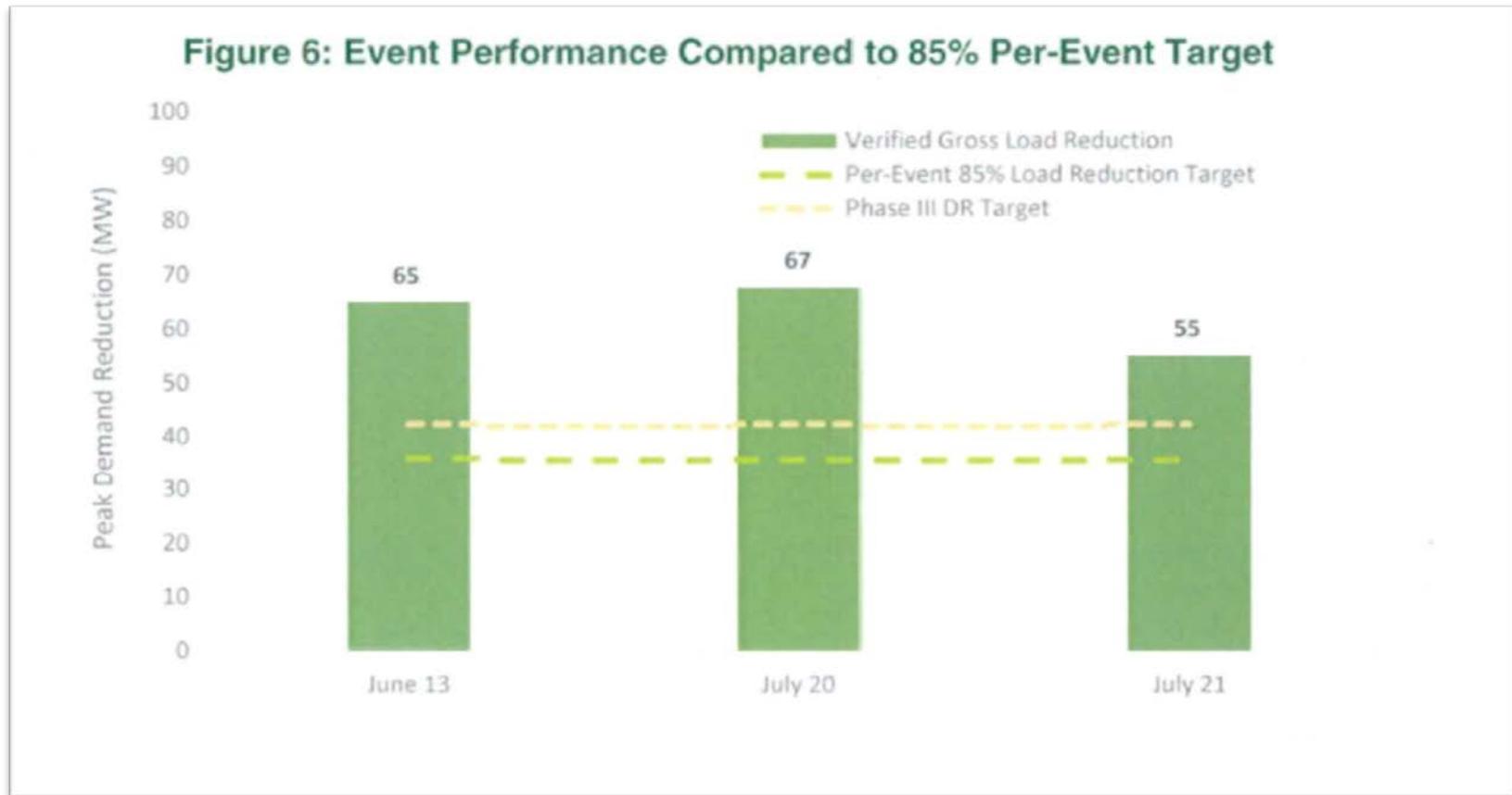
2017 Summer Events - PECO



2017 Summer Events - PPL

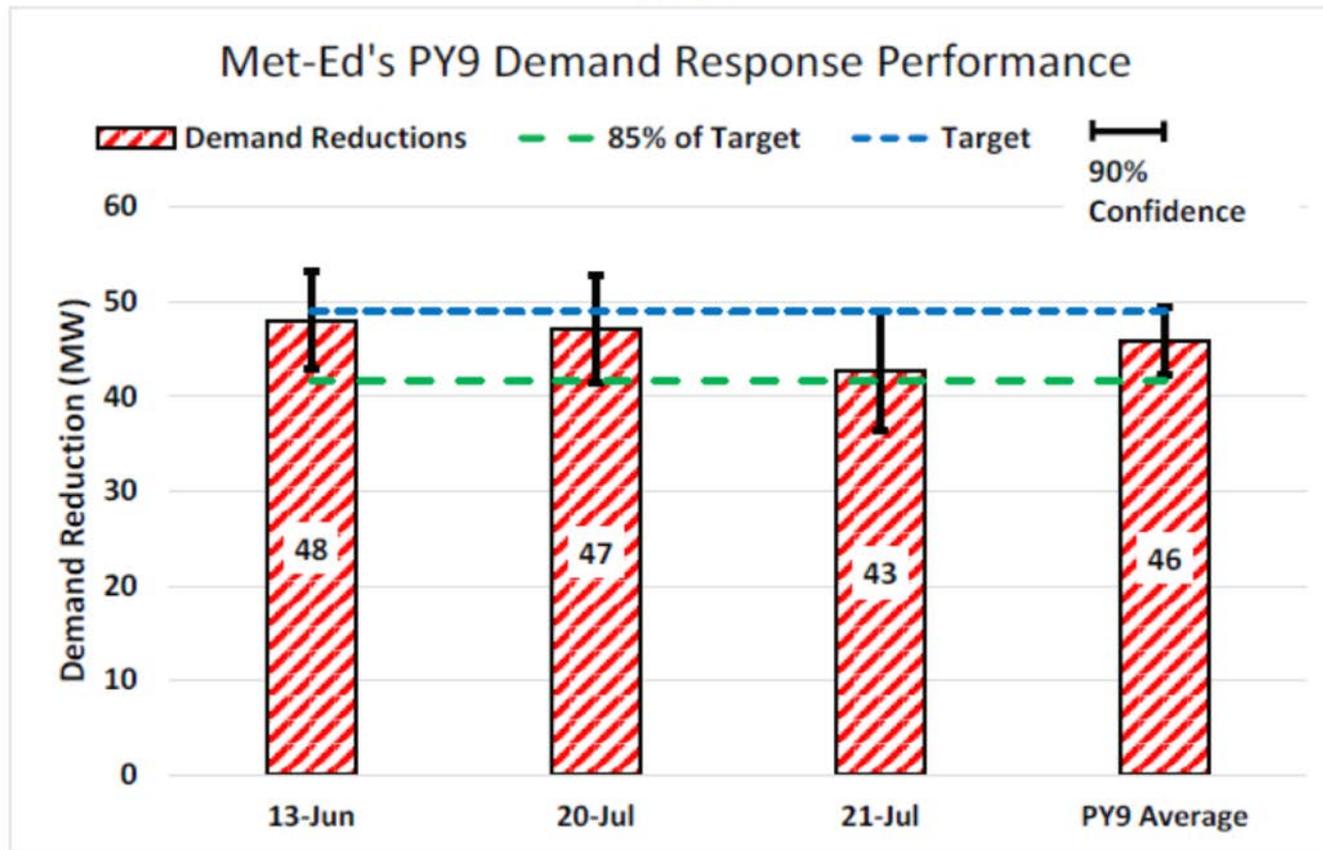


2017 Summer Events - DUQ



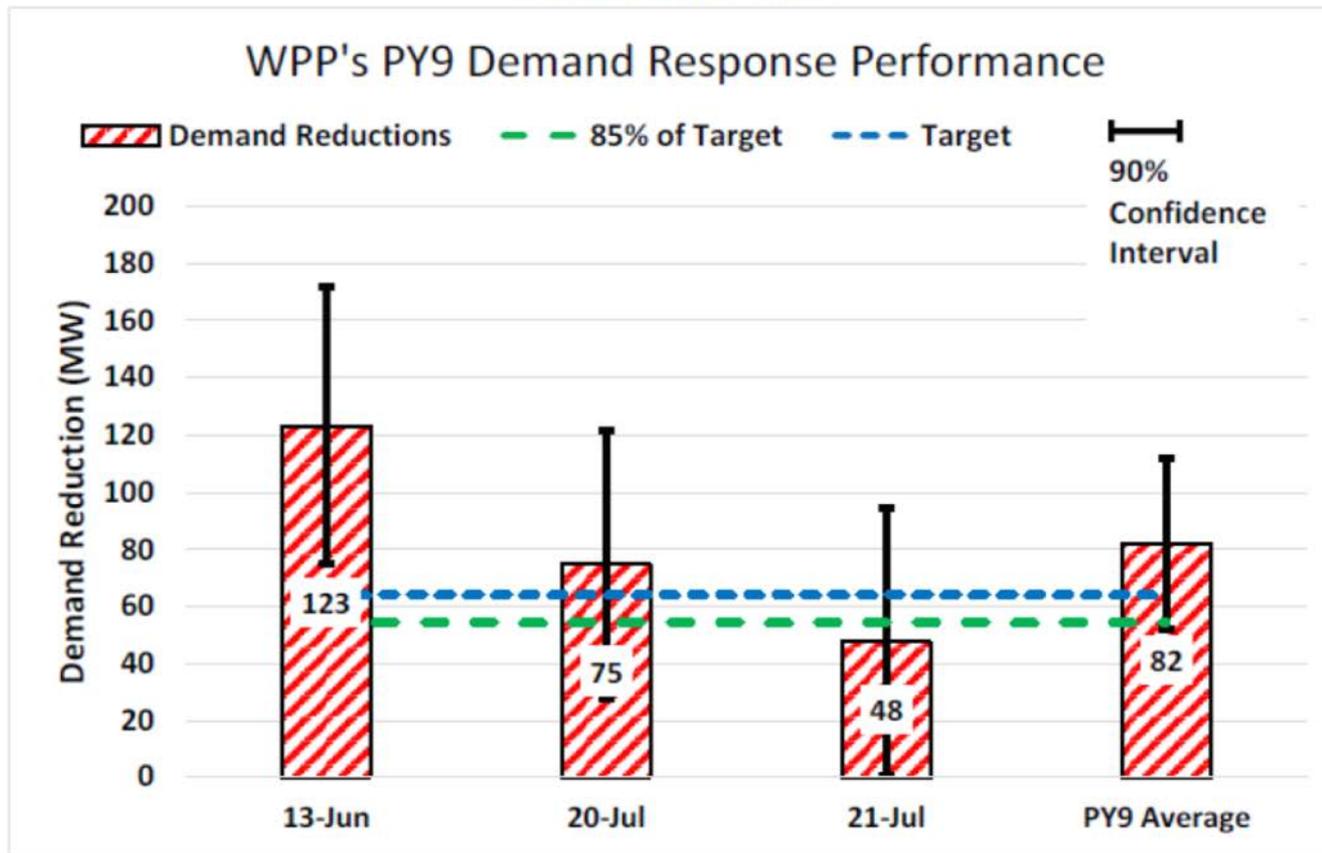
2017 Summer Events - METED

*Figure 6A: Event Performance Compared to 85% Per-Event Target
Met-Ed*

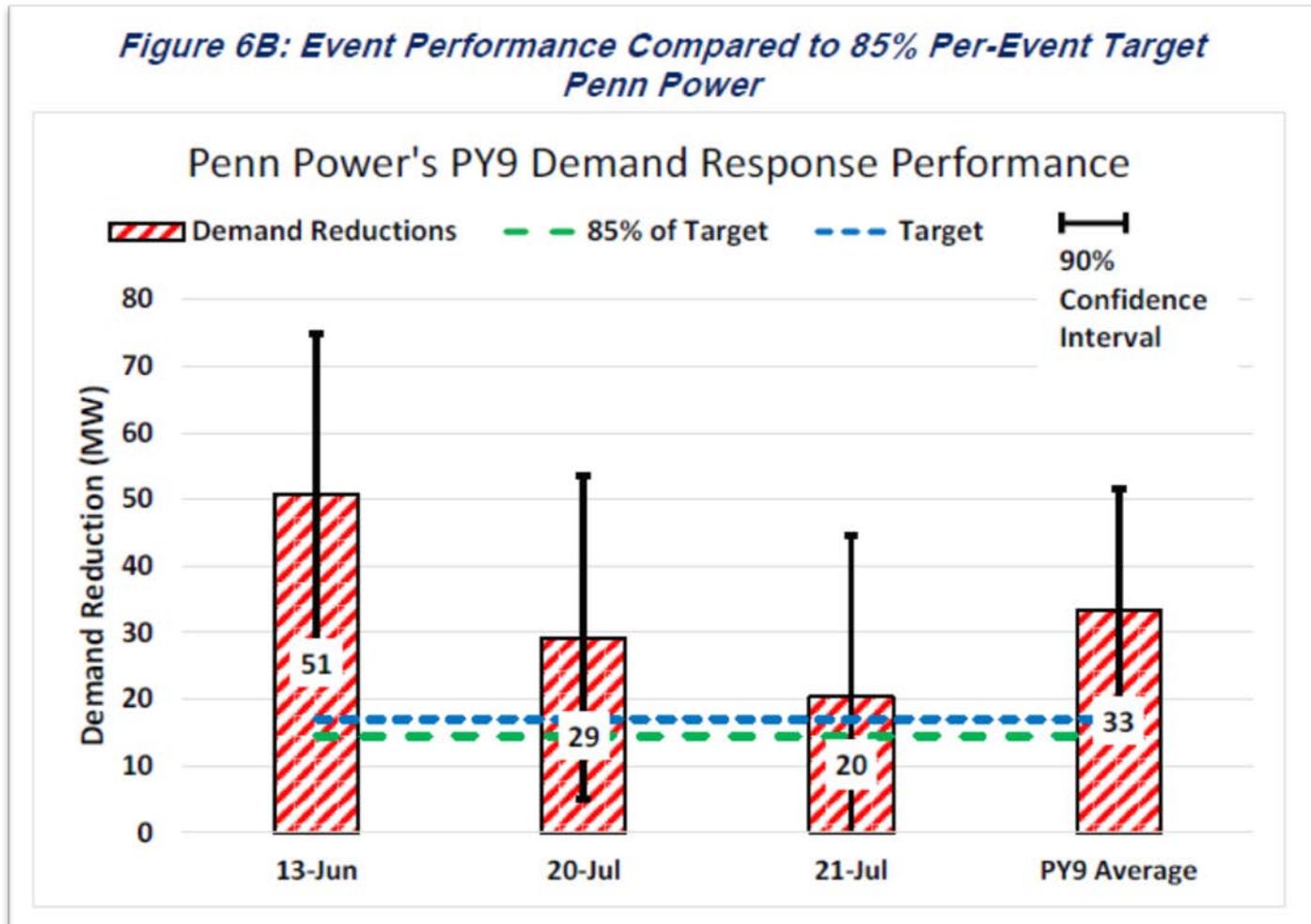


2017 Summer Events - WPP

*Figure 6C: Event Performance Compared to 85% Per-Event Target
West Penn Power*



2017 Summer Events – Penn Power



Additional ACT129 information

- PUC Reports:

http://www.puc.state.pa.us/filing_resources/issues_laws_regulations/act_129_information.aspx

- First Energy Reports:

https://www.firstenergycorp.com/content/customer/customer_choice/pennsylvania/pennsylvania_tariffs.html

- PPL Reports:

<https://www.pplelectric.com/ways-to-save/for-act-129-stakeholders.aspx>

- PECO Reports:

<https://www.peco.com/MyAccount/MyBillUsage/Pages/Filings.aspx>

EDC Performance reports:

http://www.puc.state.pa.us/filing_resources/issues_laws_regulations/act_129_information/electric_distribution_company_act_129_reporting_requirements.aspx



Questions

Thank You

www.CPowerEnergyManagement.com

