



# National Grid C&I Active Demand Reduction Demonstration Project

MA EEAC

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GAS COMPANY



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# Demonstration Project Specifics



## Purpose of Connected Solutions: C&I

Determine if National Grid can cost effectively run a C&I DR program for transmission and distribution system benefits.

## Details about Connected Solutions: C&I

### Program Level Details

- A maximum of 40 MW DR assets will be registered into the program.

### Incentive Details

Monthly Reservation Payment Rate	Performance Payment Rate During DR Events
\$5 / kW / Month	\$ 0.75 / kWh

Example for a 100 kW DR customer:

$$100kW \cdot \frac{\$5}{kW - mth} \cdot 4 mth + 100kW \cdot \frac{\$0.75}{kWh} \cdot 20hr = \$3,500$$

- Incentives will be paid out once per year at the end of the summer (October)
- Incentives will be based on the average performed curtailment
- Incentives will be paid to the customer or the CSP based on the customer's choice <sup>2</sup>

# Incentive Payment Specifics

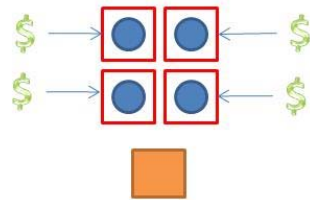


Legend

- = Electric Customer
- = Curtailment Service Provider (CSP)
- \$ = Incentive Payment
- = Performance Measurement Boundary

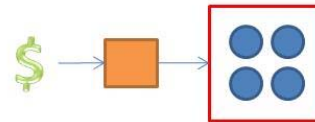
The electric customer chooses 1 option

*Default Option*



These customers will get the incentive directly and will be incentivized based on their individual performance.

*Opt-In Option*



These customers chose to have the incentive go to CSP and the CSP will be incentivized based on their aggregate performance. It will be up to the customer and their CSP to decide how much of the incentive is passed through to the customer.

In both scenarios CSPs will be responsible for installing the equipment or developing the procedures that allow a customer to curtail load when called.

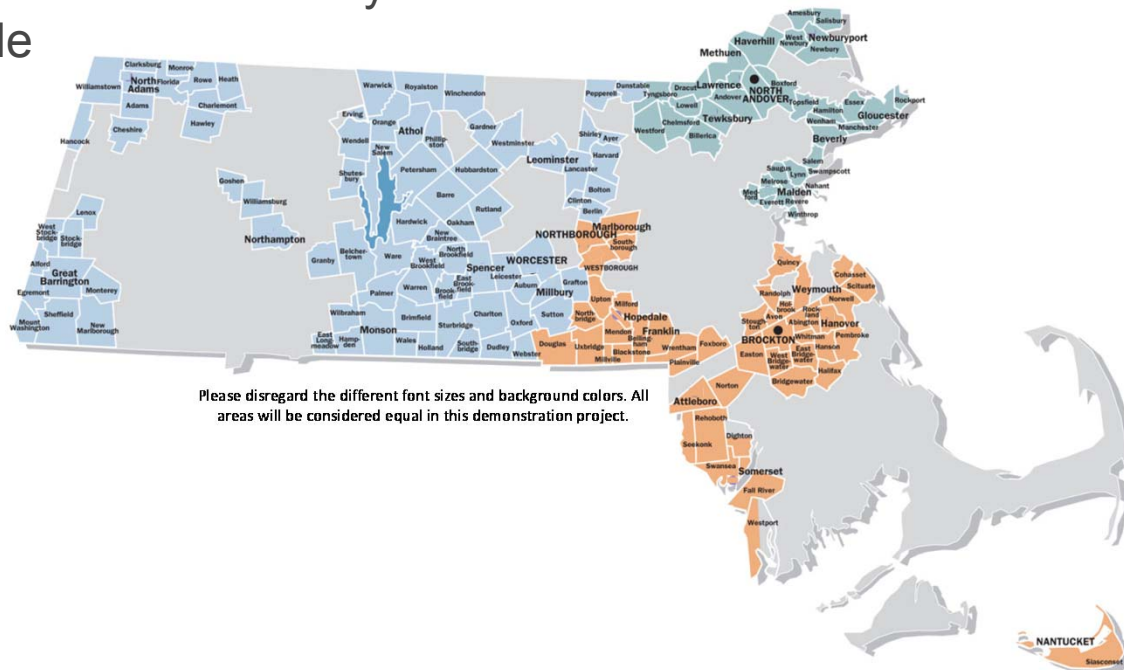
# Eligibility Criteria



## Details about Connected Solutions: C&I Continued

### Eligible Customer Details

- Must be a National Grid Electric Customer
- Minimum 50 kW Curtailment
- Customer must be on a interval commercial rate (G-3)
- Curtailment caused by natural gas or diesel generators is not eligible
- Existing FCM participants or those already under contract to participate are not eligible

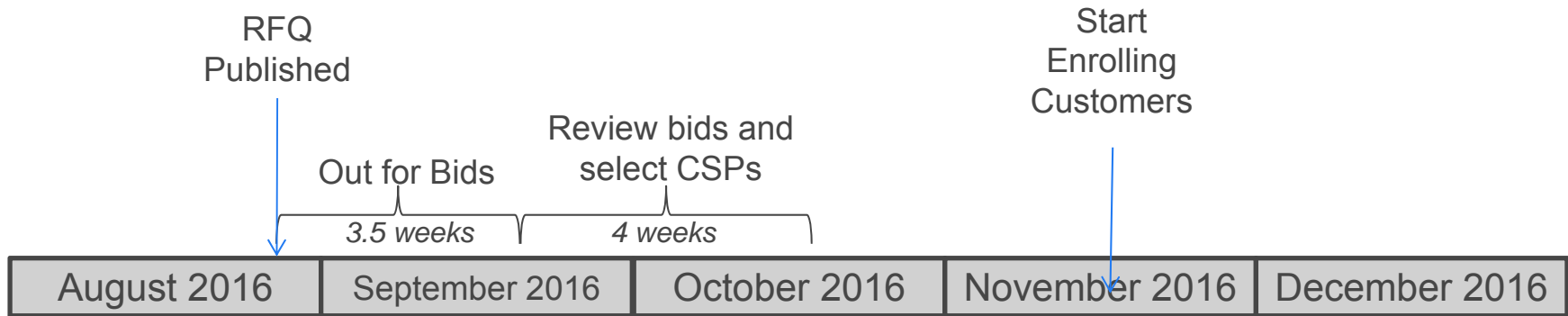


# Event Specifics

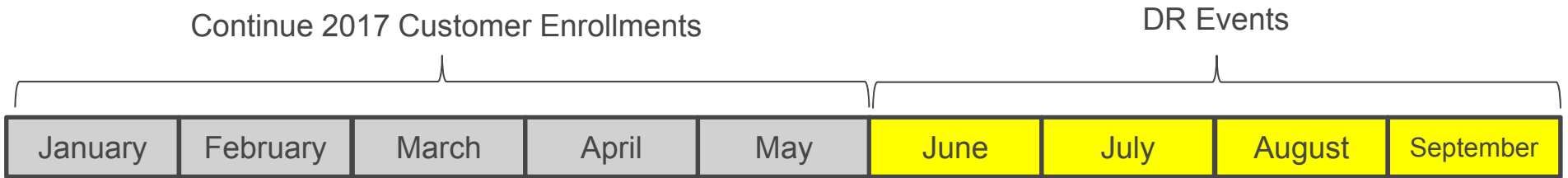


- Will call about 20 hours of events per summer, based on National Grid MA System Peak
- All events will start after 1pm and will finish before 5pm
- All DR events will be in June, July, August, and September
- DR events will be announced the day-ahead
- Maximum DR event duration of 4 hours
- About 20 hours of DR events will be called per summer
- Performance will be measured using the ISO-NE baseline procedure
- If ISO-NE activated Operating Procedure 4, National Grid will not call events and will cancel any events for that day. All CSPs and customers will be incentivized as if they had participated in the National Grid DR event.

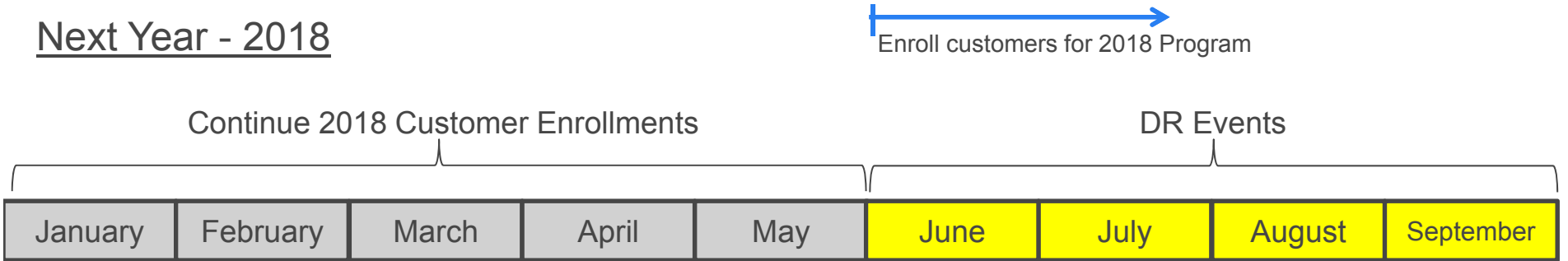
# C&I Demo Timeline



## Next Year - 2017



## Next Year - 2018



# Thank you

