



# Behind EDRP Settlement Procedures

BAWG

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DRAFT - FOR DISCUSSION PURPOSES  
ONLY

# [ Presentation Outline: ]

- Program overview
- Eligibility
- EDRP Activation
- EDRP Notification
- EDRP Settlement

# Emergency Demand Response Program Overview

- EDRP provides a mechanism for load reduction during emergency conditions facilitating the reliability of the New York state bulk power system
- Program is for Retail End Users who agree to participate in the EDRP can do so through a Curtailment Service Provider (CSP)
  - Examples of Retail End Users:
    - Cement factories, office buildings, warehouses, industrial facilities
- CSP should be able to provide load reduction of at least 100kW per zone and be able to respond within two hours of emergency notification
- EDRP events are called by Zone for particular hours within the day
- EDRP providers will be paid for at least 4 hours of participation

# [ Eligibility ]

## ■ Participants:

- Load Serving Entities
- Indirect Customer
- Curtailment Customer Aggregator

## ■ Qualifications:

- NYISO Customer or Indirect Customer
- Ability to reduce a measurable and verifiable portion of load
- Reduce at least 100kW of load per Zone
- Capable to respond within two hours of notice from the NYISO
- Provide hourly interval metering data to validate performance

# [ Customer Base line ]

- Use operating data from the month of the EDRP event to determine the peak hourly load
  - Value is normalized by eliminating holidays, low usage days, weekends, DADRP, EDRP

Metering requirements

Base line is used to determine performance

# Causes of Activation

- Operating Reserve Peak Forecast
- Response to the Major Emergency state

# EDRP Notification

- Upon Activation of an EDRP event, a series of messages will be sent to EDRP participants requiring certain actions in response to the notification
  - EDRP participants respond affirming participation and MWs expected
  - Notices consist of, not limited to
    - Day Ahead Advisory
    - In Day Advisory
    - Activating EDRP – 2 hour notification
    - Terminating EDRP event

# Settlement details for the CSP

- All participants in the program who reduce load will be paid the greater of \$500 or zone RT LBMP for each hour of the event
- All participants will be paid for at least 4 hours
- Payment calculation if the event lasts 4 hours or more:
  - Performance \* max(zone RT LBMP \$, \$500)
  - Payment for performance above peak load consumption
    - Performance above peak load consumption\* zone RT LBMP\$
- Event lasts less than 4 hours:
  - Performance \* max( zone RT LBMP \$, \$500) for which ever is longer the first two hours or the duration of the emergency  
+  
performance \* zone RT LBMP \$



# Settlement Allocation

- Costs for the program will be equal the sum of all payments to EDRP participants calculated and paid out
- Allocations based on zonal load

# Example

- August 2, 2006 EDRP event called HB 13 – HB 18 Zones A,B,C,J,K
- EDRP customer located in zone J
- Performance 1MW each hour
- Prices for the event in zone J:  
Payment = \$3802.50

	8/2/2006		8/2/2006	8/2/2006	
8/2/2006 13:00	14:00	8/2/2006 15:00	16:00	17:00	8/2/2006 18:00
N.Y.C.	N.Y.C.	N.Y.C.	N.Y.C.	N.Y.C.	N.Y.C.
481.05	879.65	1126.28	940.83	758.05	538.52

# Example continued

- Zone J LSE on August 2, 2006 EDRP event for HB 13 – 18 consist load of 9 MW
- Cost allocated to Zones
- Payment made to EDRP participants Zone J \$1,000,000.00
- Load ratio share of zone J for each hour \* payment made for each hour
- Cost \$815.61

8/2/2006 13:00	8/2/2006 14:00	8/2/2006 15:00	8/2/2006 16:00	8/2/2006 17:00	8/2/2006 18:00
N.Y.C.	N.Y.C.	N.Y.C.	N.Y.C.	N.Y.C.	N.Y.C.
11100	11000	11050	11050	11000	11000

PURPOSES

# [ Further detail ]

- EDRP manual

NYISO website:

[http://www.nyiso.com/public/webdocs/documents/manuals/planning/edrp\\_mnl.pdf](http://www.nyiso.com/public/webdocs/documents/manuals/planning/edrp_mnl.pdf)