## **Emergency Preparedness: How to Bounce Back from a Major Service Interruption**

Richard Boscarino Department Manager Emergency Management



#### Agenda

- Corporate Overview
- The Emergency Management Cycle
- Challenges
- MADE Overview

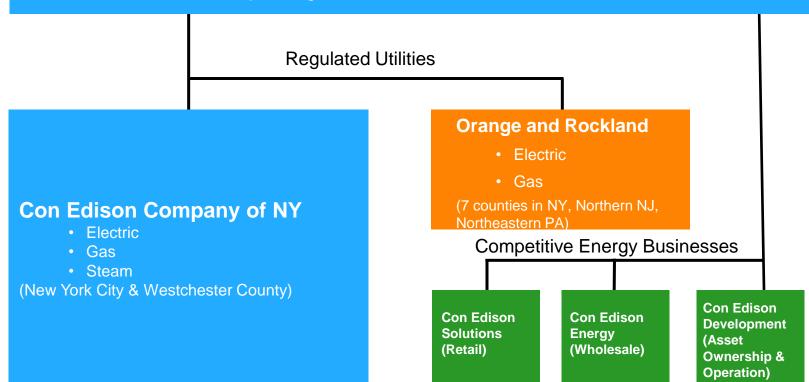




#### **Corporate Overview**

#### Con Edison, Inc.

Assets: \$44 billion; 2014 Operating Revenue: \$12.9 billion; 2014 Net Income: \$1.1 billion





#### **Energy Systems Overview – Steam**

- 1,735 customers
- Manhattan only, below 96<sup>th</sup> Street
- 105 miles steam pipe
- 22 billion pounds of steam
  - heat
  - hot water
  - air conditioning
  - sterilization
  - cooking

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- humidification
- commercial process heat



#### Disruptions

drought EVENTS blizzard onmental chquake Eflooding MADE EVENTS vortex failure ttack sabotage **A** epidemic ola tornad labor terrorist attack

#### **Major Events**



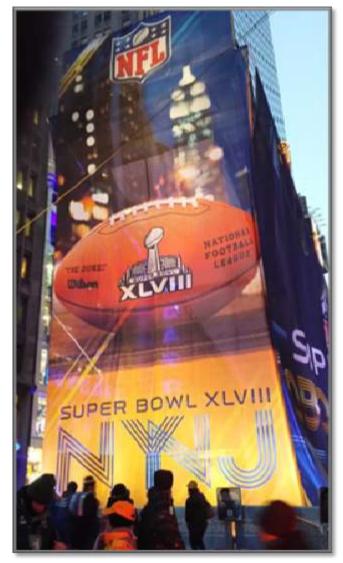


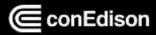
#### Special Events Super Bowl Boulevard 2014





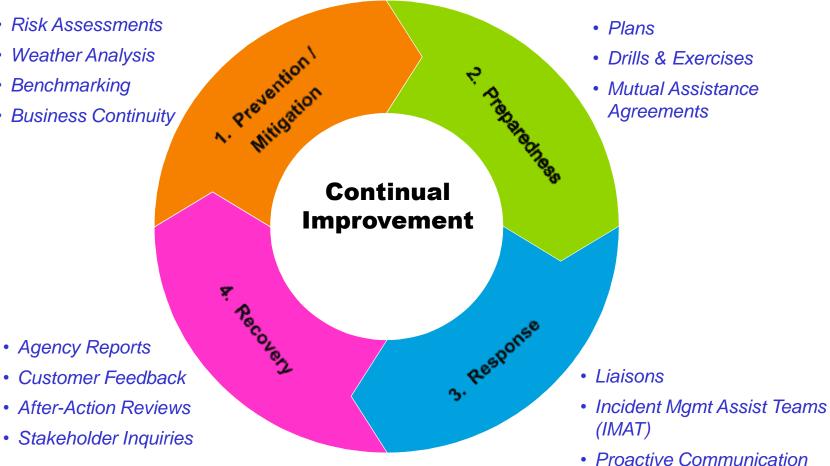






#### **Emergency Management Cycle**

- Risk Assessments
- Weather Analysis
- Benchmarking
- Business Continuity



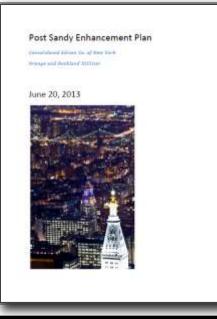




## **Prevention/Mitigation**

- Risk Assessments
- Weather Analysis
- Benchmarking
- System Hardening
- Business Continuity











- Plans & Procedures
- Training
- Drills & Exercises
- Driving for proficiency



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- Emergency Response Plan (ERP)
- Coastal Storm Plan
- Black Start Procedures
- Drill and Exercise Program
- Mutual Assistance for District Energy (MADE)





- "Smart" training
  - Celebrate Success gathering
  - Targeted group invites
  - Use pre-emptive activations as training
- Sustainable training
  - Vary training methods to be engaging
    - in class
    - field
    - eLearning
    - instructor led











- Purpose
  - Educate, proficiency, vetting out new plans and processes
- Types
  - Seminars, tabletops, notification, field, full scale







- Local field exercises
- Dispatcher relocation
- MADE annual Table Top Exercise (TTX)
- Oil Pollution Act of 1990 (OPA90)
- Corporate Emergency Response Center (CERC)





- Liaisons
- Incident Management Assist Teams (IMAT)
- Emergency Assignments
- Proactive Communication











- Agency Reports
- Customer Feedback
- Stakeholder Inquiries
- After-Action Reviews
- Document and Track









## **Continuing forward**

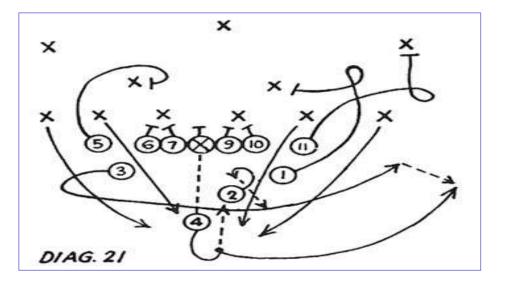
Continuous improvement to sustain capability

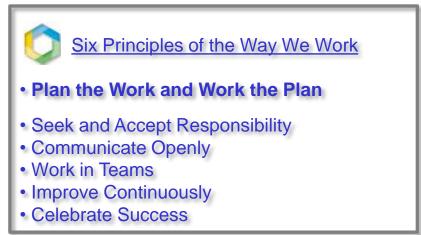
- Better training and drills
- Secure sustainable funding
- New risks, new contingency roles
  - Cyber
  - Physical security
- Continue to learn from others
- Partner with others to develop innovations



#### **Challenges – Response Execution**

- Complex incidents require a <u>comprehensive response</u>
- Incident Commander can be overwhelmed by intense demands
- Easy to become myopic
- Often many years between catastrophic events
- Maintain Corporate Principles
- Facilitating knowledge transfer



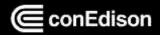




#### Challenges

- Infinite Risks
- Finite Resources
- Creating Sustainable
  Programs
- Staying Focused Between Disruptions







DISASTER RESPONSE GUIDEBOOK:

#### MUTUAL ASSISTANCE FOR DISTRICT ENERGY





#### **History of Mutual Assistance**

- Mutual assistance plans have been used successfully by electric and gas utilities for many years
- The IDEA developed the MADE program to provide a voluntary system for sharing trained personnel resources and emergency equipment among IDEA Member Organizations in the event of disasters and other emergencies
  - <u>http://www.districtenergy.org/assets/MADE/MADE-Guidebook-</u> <u>Revision-7-10-12.pdf</u>
- Committee established to develop plan



#### **MADE Executive Committee**

- Rob Thornton IDEA
- Vincent Badali
  Burns & MCDonnell
- Rich Boscarino Consolidated Edison Company of NY
- Pat Davin
  Veolia Energy N.A.
- Tim Merrill
  NRG Energy Center Pittsburgh, LLC
- Len Phillips IDEA



#### **Plan Benefits**

- Access to subject matter experts (SME)
- Sharing of information and procedures
- Direct assistance with crews and equipment in emergency
- Networking with other District Energy entities
- No actual or implied obligation!



#### **Role of the Requesting Organization**

- Identify need for assistance
- Initiate conference call with other plan participants
- Notify IDEA of request
- Specify resources being requested
- Cooperatively execute agreement with responding agency



#### **Role of the Responding Organization**

- Participate in conference call
- Determine if assistance can be provided
- Cooperatively execute agreement with requesting agency



## **Role of IDEA**

- Facilitate communications among participating agencies
- Coordinate maintenance of plan and execution of annual tabletop exercise
- Maintain and update contact information in plan



#### **Current Plan Participants**

- Citizens Thermal
- Con Edison Company of New York
- NRG Energy Center Omaha
- Thermal Energy Corporation (TECO)
- Veolia Energy North America

We are seeking additional companies to join the plan and increase the numbers of potentially available resources.



#### **Annual Exercise**

- The MADE plan specifies that a tabletop exercise (TTX) will be conducted annually
- Veolia hosted the 2<sup>nd</sup> annual exercise on October 28, 2014
- 2015 Exercise is to be determined





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