



**EIS**  
SUMMIT

AGENDA

**VIII/17**

United States Capitol Building, Washington D.C

ELECTRIC INFRASTRUCTURE  
SECURITY SUMMIT

THE EIGHTH ANNUAL WORLD SUMMIT  
ON INFRASTRUCTURE SECURITY

EPRO Executive Steering Committee  
Summer, 2017



## Electric Infrastructure Security Summit

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### Organizing Co-Chairs

- Hon. Congressman Trent Franks
- Hon. Congresswoman Yvette Clarke
- The Rt. Hon. Lord James Arbuthnot
- Lord Toby Harris

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### The Congressional and Parliamentary Co-Chairs would like to thank:

#### Corporations

- North American Electric Reliability Corporation (NERC)

#### Individuals and Foundations

- The Marcus Foundation
- The Templeton Family
- The Newton D. and Rochelle F. Becker Foundation
- Craig Snider
- The Michael and Andrea Leven Family Foundation
- The Smith Richardson Foundation
- The Goodman Family Foundation
- Steve and Rita Emerson

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### Hosted by

- The Electric Infrastructure Security Council



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## Participating Organizations with Speakers

### Government

#### United Kingdom

- House of Lords

#### Israel

- National Emergency Management Authority (NEMA)
- Israel Cyber Authority
- Ministry of Defense (MoD)
- Ministry of National Infrastructures, Energy and Water Resources
- Israel Water Authority

#### United States

- U.S. House of Representatives
- Connecticut Department of Emergency Management
- Department of Defense (DOD)
- Department of Energy (DOE)
- Department of Homeland Security (DHS)
- Federal Emergency Management Agency (FEMA)
- Federal Energy Regulatory Commission (FERC)
- Idaho Emergency Management Administration
- Idaho National Laboratory (INL)
- Metropolitan Washington Council of Governments
- National Oceanic and Atmospheric Administration (NOAA)
- North Carolina Emergency Management Division
- U.S. Geological Survey (USGS)
- Pennsylvania Public Utility Commission
- California Office of Emergency Services (CalOES)

# EIS Summit VIII/17

# Agenda

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## Industry

- American Water
- Applied Minds, Inc.
- Atmos Energy Corp.
- Dominion Virginia Power
- East Bay Municipal Utility District (EBMUD)
- Electric Power Research Institute
- Exelon
- Fairfax Water
- Grid Protection Alliance
- Israel Electric Corporation
- Kinder Morgan
- Louisville Gas and Electric / Kentucky Utilities
- Merkorot, Israel National Water Company
- National Grid
- North American Electricity Reliability Corporation
- PPL Corporation
- PJM Interconnection
- Public Service Electric and Gas Company
- Rock and Nova
- Scientific Applications Research Associates
- Sonecon LLC
- Southern California Edison
- Tennessee Valley Authority
- Water UK
- Yorkshire Water

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## NGOs, Associations, and Academia

- American Gas Association
- American Red Cross
- American Water Works Association (AWWA)
- Arkansas Baptist State Convention
- Bar Ilan University, Israel
- Electric Power Research Institute (EPRI)
- Interdisciplinary Center (IDC), Herzliya, Israel
- National Association of Regulatory Utility Commissioners (NARUC)
- National Rural Electric Cooperative Association
- North American Mission Board
- North American Transmission Forum (NATF)
- Salvation Army
- University College of London
- University of Colorado
- University of London





# EIS Summit VIII/17 Agenda

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## Working Together to Secure Our Future

### Cross-Sector Collaboration to Achieve Robust Goals

Expanding Black Sky planning efforts by public and private sector organizations in the United States and partner nations have developed in response to a fundamental question:

*“Do the United States and other developed nations wish to be prepared to survive extreme, Black Sky hazards?”*

If the answer is “Yes,” assuring national continuity requires setting robust goals, while challenging ourselves to develop cost effective strategies to achieve them. In EISS VIII, infrastructure corporations and their government and NGO partners will jointly take stock of where we are, and where we need to go to achieve critical goals.

# EIS Summit Agenda

## DAY ONE

Monday, July 24, 2017

### “Where Are We?”

A multi-sector review of the Black Sky problem,  
and critical preparedness gaps.

# DAY ONE

Monday  
July 24, 2017

US Capitol Visitor Center  
US Capitol Building

On Day One, we will focus on the Black Sky Threats, and “where we are” in addressing them.

Subject matter experts will review the characteristics and projected impacts of six severe hazard categories, when occurring at a level causing subcontinent-scale “Black Sky” outages. Leaders from critical lifeline infrastructure sectors and their partners will focus on current status and preparedness gaps, in multi-sector panels addressing each hazard.

8:00 Registration and Coffee

**8:30 Introductory Briefings**

The Black Sky Domain – Civilization-scale risks. Windows of opportunity

Avi Schnurr, CEO, EIS Council

- **The Future Question:** Choosing a Path Forward: The fundamental question underlying Black Sky planning.
- **Overview:** EIS Council's Black Sky Initiatives
- **Video Presentation:** “Black Sky ‘Lessons Imagined’”

**8:40 Learning from the Past: Historical, civilization-scale risks in times of rapid transition**

Avi Schnurr, CEO, EIS Council

**8:45 Where are we today?**

**Overview of today's interdependent infrastructures and global-scale risk**

Brig. Gen. (ret.) **John Heltzel**; Director of Resilience Planning, EIS Council; Former Director, Kentucky Emergency Management Division

**8:50 Choosing our Future: Building a “Bridge” Through a Period of Black Sky Disruption – The EPRO III Vision for Black Sky Coordinated planning, Restoration Support and Population Sustainment**

Dr. **Paul Stockton**; Editor-in-Chief, EPRO Handbooks, Managing Director of SONECON, Former U.S. Assistant Secretary of Defense

> Discussion

**9:05 Working together to secure our future: Looking to Israel's experience in coordinated disaster planning as a template for progress, and lessons learned**

Maj. Gen. (Ret.) **Yaacov Amidror**, former National Security Advisor to the Prime Minister of Israel, and Former Head of Israel's National Security Council

> Discussion

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**9:20 Emergency Communication for a Resilient Future: The Black Sky Emergency Communication and Coordination (BSX) System, and 2017 Prototype Project**

**Bran Ferren**, Cochairman, Applied Minds, Inc. Former CEO, Disney Imagineering.

> Discussion

9:40 Coffee Break

## Black Sky Hazards

Six malicious and natural risks, taking place at a level that could cause a subcontinent-scale power outage and associated, cascading failure of all other infrastructures, have been identified as emerging, “Black Sky” hazards. Restoration and population sustainment following events with this level of impact will only be possible with aggressive, pre-event sector-by-sector implementation of critical, cost effective resilience investments and carefully planned multi-sector coordination.

In the next two sessions, consideration of the problem will begin by reviewing each hazard, when occurring at a Black Sky level. Subject matter experts will review the fundamental characteristics and unique projected impacts of each hazard, followed by a multi-sector panel review assessing issues and planning gaps – current status in preparing for that hazard.

**10:00 Session One**  
**Malicious Black Sky Hazards**

Session Chair: The Hon. **Trent Franks** (R-AZ), US House of Representatives

The panels reviewing these hazards will be preceded by a review of key, emerging, strategic considerations for this hazard class

**10:10 Terrorism: A New Dimension in Existential Threats to Western Nations**

Terror attacks have been increasingly focused on crippling critical infrastructure, preventing attempts to repair/restore these systems, and disrupting response. As terror organizations reach for ever larger impacts, they represent a growing risk of attacks that could lead to Black Sky events.

**Professor Boaz Ganor**, Founder and Executive Director, the International Institute for Counter-Terrorism (ICT), at the Interdisciplinary Center (IDC), Herzliya, Israel.

Note: The International Institute for Counter Terrorism is considered the world’s preeminent research institution addressing national and transnational terrorism.

> Discussion



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**10:30 Electromagnetic Pulse (EMP): High Altitude (30 – 200km) Detonation of a Nuclear Warhead**

With footprints that would blanket subcontinent-size regions, EMP represents one of the largest scale Black Sky hazards deliverable by any adversary that could acquire a nuclear missile, for launch from land, from a disguised freighter or by other means.

Subject Matter Expert: **Michael Rooney**, Branch Chief, Nuclear Survivability, U.S. Defense Threat Reduction Agency (DTRA)

Note: Michael Rooney is one of the principal United States Government officials tasked with ensuring the Department of Defense is equipped to survive a nuclear event.

**10:50 SPECIAL PRESENTATION: Report on New SARA EMP impact study**  
“EMP Damage Assessments of Electric Grid Components.” Based on recent work of the Defense Threat Reduction Agency:

Dave Fromme, Senior EM/EMP Scientist, Scientific Applications Research Associates

> Discussion

**11:00 Panel 1: EMP**

Panel Chair: **Terry Boston**, Vice Chair, Grid Protection Alliance; Energy Security Advisor to the President of the United States; Board Member and Former CEO, PJM Interconnection

Panelists

- **Gerard Roccanova**, Vice President, AdvancedConcepts; Former Director, Nuclear EMP Test Division, Northrop Grumman; and Former Vice President, Telecommunications, TRW
- **Robin Manning**, Vice President for and Distribution Power Delivery and Utilization, Electric Power Research Institute
- **Ian Grant**, Transmission Engineering, Tennessee Valley Authority
- **Dr. Shlomo Wald**, Former Chief Scientist, Israel Ministry of Energy and Water

> Discussion

**11:30 Cyber Attack – Broadly Targeted at Critical Lifeline Infrastructure Sectors**

Increasingly sophisticated cyber weapons are now in the hands of a growing number of potential adversaries. Attackers are unlikely to do us the favor of attacking only a single infrastructure sector. Instead, to maximize the effects of their attack, they will strike multiple sectors simultaneously and create cascading failures across essential systems.

Subject Matter Expert: **Erez Kreiner**, Former Chief; Israel Cyber Authority

Note: Erez Kreiner is an expert on policies and implementation of Israel's Nationwide cyber shielding of critical infrastructures, and is credited with helping to found Israel's unique and flexible national cyber regulatory framework.

> Discussion

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**11:50 Panel 2: Cyber Attack**

Panel Chair: **Marc Sachs**, Senior Vice President & Chief Security Officer, NERC

Panelists

- **Nick Santillo**, Vice President, Internal Audit and Chief Security Officer, American Water
  - Lt. Gen. **Mark Bowman**, US Army, retired, former Director Command, Control, Communications and Computers (C4) / Cyber, Chief Information Officer, Joint Staff, J6/CIO
  - **Tamara Lance**, Director of Information Security, Atmos Energy Corp.; Chairwoman, American Gas Association Cybersecurity Task Force
  - **Robert Kolasky**, Deputy Undersecretary (Acting), National Protection & Programs Directorate, US Department of Homeland Security
- > Discussion

12:20 Lunch

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**13:10 Session Two**  
**Natural Black Sky Hazards**

Session Chair: Lord **Toby Harris**, Co-chair, EIS Summit Series; Member, House of Lords, U.K.

Expanding civil Infrastructure interdependency: an unprecedented problem, with efforts just beginning, internationally, to analyze the problem

The rapidly growing interconnection and interdependency of our critical infrastructures – at nearly every level – has led to increased efficiencies and expanded economic growth. On the other hand, these interdependencies now make possible cascading failures of multiple infrastructures an ever-increasing concern.

**13:20 Expanding Civil Infrastructure Interdependency: An Unprecedented Problem, with Efforts Just Beginning, Internationally, to Analyze the Problem**

Prof. **Brian Collins**, Professor of Engineering Policy at University College of London; Director of the International Centre for Infrastructure Futures (ICIF); Formerly, special adviser to the House of Lords Science and Technology Committee; Chief Scientific Advisor (CSA) to the British Government (Transport, Business Innovation and Skills)

> Discussion

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## 13:40 Extreme Terrestrial Weather

With climate related disasters expanding and increasing in recent decades, concerns have grown for potential for catastrophic combination of extreme weather events that could lead to a Black Sky scenario.

Subject Matter Expert: Dr. **Louis Uccellini**, Director, National Weather Service, U.S. NOAA

Note: Dr. Uccellini monitors and predicts terrestrial weather of all kinds, and is especially focused on the increasing severity of such events as climate patterns have changed in recent years.

> Discussion

## 14:00 Panel 1: Extreme Terrestrial Weather

Panel Chair: Dr. **Kevin Morley**, Manager, Federal Relations, American Water Works Association

Panel

- **Tom Galloway**, President & CEO, North American Transmission Forum
- **Brad Richy**, Director, Idaho Emergency Management Administration (invited)
- **Steve Bieber**, Chief, Urban Watershed Programs and Homeland Security, Metropolitan Washington Council of Governments
- **Craig Fugate**, Former FEMA Administrator (Invited)

> Discussion

## 14:30 Extreme Space Weather

With coronal mass ejections (often referred to as “solar storms”) occurring typically several times per year, NASA estimates the risk – in any decade – of a “direct impact” at approximately 12%. With the last two such occurrences taking place in 1859 and 1920, another direct impact could occur at any time, driving unwanted currents through electric grids and other large conducting systems, with possibly catastrophic impacts to multiple infrastructure domains.

Subject Matter Expert: Dr. **Daniel Baker**, Director of the Laboratory for Atmospheric and Space Physics, University of Colorado; Chair of the NASA/NAS Study on Societal Impacts of Space Weather

Note: Dr. Baker is a world-renowned expert on Solar and Space Weather physics and the impacts of space weather on critical infrastructures.

> Discussion

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**14:50 Update on FERC Order 779: Space Weather**

Cheryl LaFleur, Acting Chairman, Federal Energy Regulatory Commission

> Discussion

**15:00 Panel 2: Extreme Space Weather**

Panel Chair: Dr. Daniel Baker

Panel

- **Bill Hackett**, Director, Connecticut Department of Emergency Management
  - **Michael Bryson**, Vice President of Operations, PJM Interconnection
  - **Charley English**, National Emergency Management Liaison, American Red Cross
  - **Michael J. Gaffney**, Senior Director, Gas Distribution Field Construction, Public Service Electric and Gas Company
- > Discussion

15:30 Coffee Break

**15:50 Earthquakes: Extreme regional earthquake zones**

Extreme earthquake zones in regions heavily populated with critical infrastructures such as natural gas and water/wastewater pipelines, could cause Black Sky scenarios both directly, due to local failures of power generation equipment and many other systems, as well as indirectly, with impacts well beyond the area where physical damage is focused.

Subject Matter Expert: **Dr. Thomas Pratt**, Research Geophysicist, U.S. Geological Survey (USGS)

Dr. Pratt is an earthquake expert, and participated in the Central United States Earthquake Consortium (CUSEC) study of the New Madrid Fault zone.

> Discussion

**16:10 Panel 3: Earthquakes**

Panel Chair: **Randy Garrett**, Director, Disaster Relief, Arkansas Baptist State Convention

Panel

- **Xavier Irias**, Director of Engineering and Construction, East Bay Municipal Utility District (EBMUD)
  - **Jay Montgomery**, Vice President and Chief Security Officer, Kinder Morgan; Vice Chairman, Oil and Natural Gas Sector Coordinating Council
  - **Danny Lacker**, Head of Water Security and Emergency Division, Israel Water Authority
  - **Bridgette Bourge**, Director, Legislative Affairs, National Rural Electric Cooperatives Association
- > Discussion

## DAY ONE

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### 16:40 International Cooperation

Israel's Vision of Opportunities for Expanding International Security Cooperation, as a Template for Progress in Preparing for International Impact and Support for Black Sky Hazards.

**Jacob (Kobi) Wimisberg**, Defense Attache Coordination, NATO & Organizations Unit, Policy and Politico Military Bureau, Israel Ministry of Defense

> Discussion

**Conclusion: Where are we?**

### 17:00 Highlights and Summary from EISS VIII Day One

Avi Schnurr

## RECEPTION

Monday  
July 24, 2017

Newseum 555 Pennsylvania  
Ave., NW Freedom Forum  
entrance on 6th Street, NW

18:30-20:30

### Evening Reception

A reception will take place at the Newseum, Freedom Forum entrance on 6th Street, NW, between 18:30 and 20:30 in the evening. Delegates and guests are welcome.

Dress code for the reception is business casual, and business attire for all other summit events.

# EIS Summit Agenda

## DAY TWO

Tuesday, July 25, 2017

### “Where Do We Need To Go?”

A sector by sector assessment of urgent Black Sky resilience measures needed to address the critical preparedness gaps reviewed on Day One.

## DAY TWO

Tuesday  
July 25, 2017

US Capitol Visitor Center  
US Capitol Building

8:00 Registration and Coffee

**8:30 Introduction to the EPRO SECTOR Executive Committee, Summer 2017**

**Terry Boston**, EPRO SECTOR Executive Committee Chairman; Board Vice Chair, Grid Protection Alliance; Energy Security Advisor to the President of the United States; Board Member and Former CEO and President, PJM Interconnection

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**8:40 Session Three: Critical Lifeline Utilities – Electricity, Oil and Natural Gas, Water**

Session Chair: The Rt. Hon. Lord **James Arbuthnot**, Former Member, House of Lords, U.K.

- (a) The most critical resilience investments needed
- (b) Resources, policy changes and planning needed from partner industry and government sectors

**8:50 The EPRO SECTOR vision**

Brig. Gen. (ret.) **John Heltzel**, Director of Resilience Planning, EIS Council

**9:00 Panel 1: The Electric Subsector**

Panelists will consider key Black Sky electric subsector resilience measures and external support needed, including: Emergency communication and situational awareness; Black Sky hardening and fuel-security for designated, regionally distributed black start cranking paths; nuclear power plant policy opportunities; approaches to move beyond mutual support for critical labor requirements in highly disrupted scenarios.

Panel Chair: **John Twitchell**, EPRO Electric Subsector Coordinator, EIS Council

Panelists:

- **Ian Grant**, Transmission Engineering, Tennessee Valley Authority
  - **David Gladey**, Director of Asset Management, PPL Corporation
  - **Frank Koza**, Executive Director, Infrastructure Planning, PJM Interconnection
  - **Naomi Etzion**, Expert Engineer, Israel Electric Corporation
  - **Peter Chandler**, Control Implementation Manager, National Grid
- > Discussion

# EIS Summit Agenda

DAY TWO

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**9:50 Panel 2: Oil and Natural Gas Subsector**

ONG Panelists will consider the wide range of resilience measures required, implied by the breadth of the subsector, including sustained minimal levels of production, storage and distribution for natural gas, oil and diesel fuel. External support from partners needed, including infrastructure and regulatory sectors, will also be reviewed.

Panel Chair: **Dave Miller**, ONG Subsector Coordinator, EIS Council

Panelists:

- **Kimberly Denbow**, Security, Operations, and Engineering Services Director, American Gas Association
- Additional Panelists TBD
- > Discussion

10:30 Coffee Break

**10:50 Panel 3: The Water Sector**

The water sector panel will review primary Black Sky resilience opportunities for the water sector, including emergency communications and situational awareness; expanded emergency generation and generator fuel tankage; Black Sky policy development for reduced water and wastewater pressure and treatment quality; decisionable reductions in service to designated geographic regions; mechanisms to address critical labor requirements in highly disrupted scenarios.

Panel Chair: **John Orgonek**, Water Sector Coordinator, EIS Council

Panelists:

- **Danny Lacker**, Head of Water Security and Emergency Division, Israel Water Authority
- **Steve Bieber**, Chief, Urban Watershed Programs and Homeland Security, Metropolitan Washington Council of Governments
- **Xavier Irias**, Director of Engineering and Construction, East Bay Municipal Utility District
- **Nick Santillo**, Vice President International Audit and Chief Security Officer, American Water
- > Discussion

**11:40 Special Presentation: Black Sky Coordination. Approaches for preplanned and real-time functional coordination across lifeline infrastructure, corporate, NGO and government organization boundaries.**

- **Mark Ghilarducci**, Director, California Office of Emergency Services
- Brig. Gen. (ret.) **John Heltzel**, Director of Resilience Planning, EIS Council
- **Jonathan Monken**, Senior Director, System Resiliency and Strategic Coordination, PJM Interconnection
- > Discussion



## DAY TWO

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12:30 Lunch

### 13:20 **Session Four: First Responders, Emergency Management and State and Federal Government Roles**

Session Chair: The Hon. **Yvette Clarke** (D, NY); US House of Representatives

#### 13:30 **Panel 1: State Emergency Management Sector**

State Emergency Management Sector panelists will consider a wide range of Black Sky resilience opportunities, including emergency communication and situational awareness; coordinated public-private sector coordinated planning; improved emergency generation reserves; preplanning for emergency fuel distribution; Black Sky security requirements.

Panel Chair: **John Madden**, State Emergency Management Sector Coordinator, EIS Council

Panelists:

- **Bill Hackett**, Director, Connecticut Emergency Management Department
  - **Mike Sprayberry**, Director, North Carolina Department of Public Safety
  - **Brian Baker**, Interim Director, Washington D.C. Homeland Security and Emergency Management Agency
- > Discussion

#### 14:10 **Afternoon Keynote Address: "Resilience Efforts in London"**

**Steve Hamm**, Head of Programme, London Resilience Forum, University of London; Former Assistant Commissioner, London Fire Brigade (Invited)

> Discussion

#### 14:30 **Panel 2: Black Sky Roles of the U.S. Department of Energy**

The United States Department of Energy is uniquely positioned to help build resilience for Black Sky power outages, through planning and exercises addressing the unique needs that would characterize subcontinent scale power outages.

Panel Chair: **Jim Kish**, Federal Sector Coordinator, EIS Council

Panelists:

- **Devon Streit**, Deputy Assistant Secretary, Infrastructure Security and Energy Restoration, US Department of Energy
  - **Andy Bochman**, Senior Cyber and Energy Strategist, Idaho National Lab, US Department of Energy
- > Discussion

# EIS Summit Agenda

DAY TWO

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15:20 Coffee Break

**15:40 Panel 3: Black Sky Roles of the U.S. Department of Homeland Security and the Federal Emergency Management Agency**

DHS and FEMA represent unique capabilities in the federal family, with opportunities to help both structure and advance Black Sky planning, and to host key elements of the real time public / private sector coordination that will be essential to support restoration and sustain the affected population following Black Sky events. The panelists will consider opportunities to utilize these capabilities to help host the resilience requirements needed for these severe scenarios.

Panel Chair: **Jim Kish**, EPRO Federal Sector Coordinator, EIS Council

Panelists:

- **Josh Dozor**, Director, Planning Division, Response Directorate, FEMA
- **Scott Zaffram**, Federal Preparedness Coordinator and Acting Director, National Preparedness Division, FEMA Region X
- **Brandon Wales**, Director, Office of Cyber and Infrastructure Analysis, US Department of Homeland Security
- **Scott Breor**, Director, Protective Security Coordination Division, US Department of Homeland Security

16:20 > Discussion

**16:30 Panel 4: The Regulatory Sector**

The regulatory sector represents a vital interface between the public sector, and the mostly private lifeline infrastructures that manage the resources sustaining our lives and our economies. The panelists will consider the path toward implementing highly leveraging resilience policy approaches that could accelerate private sector resilience, while exercising their due diligence mandates to meet public expectations for cost, environmental quality and other considerations.

Panel Chair: **David Miller**, EPRO Regulatory Sector Coordinator, EIS Council

Panelists

- **Gladys Brown**, Chairman, Pennsylvania Public Utility Commission
- **Joseph McClelland**, Director, Office of Energy Infrastructure Security, FERC

17:00 > Discussion

**17:10 Panel 5: The Mass Care NGO Sector**

The United States and allied nations depend on private sector, mass care NGOs which take a crucial role in responding to major disasters. These organizations, made up primarily of volunteers in the communities they serve, could have a vital role in supporting infrastructure restoration and in sustaining the affected population in Black Sky hazards. The NGO Sector panelists will consider the resilience measures and plans that would be needed for the sector to take such roles, and a range of associated policy implications.

Panel Chair: **David Maxwell**, EPRO Mass Care NGO Sector Coordinator, EIS Council

## Panelists:

- **John Berglund**, Director, U.S. Western Territorial Emergency Services, Salvation Army
- **Eddie Blackmon**, Disaster Response Coordinator, North American Mission Board, Southern Baptist Convention
- **Charley English**, National Emergency Management Liaison, American Red Cross

17:25 > Discussion

**17:30 EPRO SECTOR Executive Committee, Summer 2017 – Highlights and Summary**

Terry Boston, EPRO Sector Executive Committee Co-Chair

**17:35 EISS VIII Concluding Remarks**

Avi Schnurr, CEO, EIS Council

17:40 EIS Summit VIII Concludes

