

## AGENDA

# ENERGY TRANSITION SUMMIT

## Grid Modernization Initiative and Clean Energy Cybersecurity

FEBRUARY 5-8, 2024 | ARLINGTON, VA

### DAY 1 | MONDAY, FEBRUARY 5

TIME	TITLE	
8:30 a.m. - 5:00 p.m.	<b>Registration and Badge Pickup</b>   Arlington Foyer	
1:00 p.m.	Distributed Energy Resources and Clean Energy Cyber Threat Brief 1:00 - 2:00 p.m.   Salon 3 & 4	
2:00 p.m.	Cloud Adoption Profiles 2:00 - 3:00 p.m.   Salon 3 & 4	CyberStrike: Stormcloud Exercise 2:00 -5:00 p.m.   Salon 6
3:00 p.m.	<b>Networking Break</b>	
	National Association of Regulatory Utility Commissioners (NARUC) Cyber Baselines Engagement 3:30 -4:00 p.m.   Salon 3 & 4	
4:00 p.m.	Rural and Municipal Utility Cybersecurity 4:00 -4:30 p.m.   Salon 3 & 4	
	Workforce Development 4:30 -5:30 p.m.   Salon 3 & 4	
5:00 p.m.		

### DAY 2 | TUESDAY, FEBRUARY 6

TIME	TITLE				
8:00 a.m. - 5:00 p.m.	<b>Registration and Badge Pickup</b>   Arlington Foyer				
9:00 - 10:00 a.m.	<b>Opening Plenary</b>   Salon 3 & 4 Framing the Energy Transition: Challenges and Opportunities				
10:00 - 11:00 a.m.	DOE's Vision for a Modern Grid				
11:00 a.m. - 12:00 p.m.	Market Solutions to Advance the Grid Transition				
12:00 p.m.	<b>Lunch</b>				
1:00 p.m.					
2:00 p.m.	Grid Modernization Initiative (GMI): Devices and Integrated Systems 1:15 - 3:00 p.m.   Salon 1 & 2	The CISO's Role in a Renewable and Distributed Future 1:30 - 3:00 p.m.   Salon 3 & 4	Cybersecurity for Inverter-Based Resources 1:30 - 3:00 p.m.   Salon 6	Workshop on Artificial Intelligence for Grid and Cyber Operations 1:30 - 3:30 p.m.   Salon 5	
3:00 p.m.	<b>Networking Break</b>   Salon 1, 2, 3, 4 & 6				
4:00 p.m.	GMI: Flexible Generation and Load 3:30 - 5:15 p.m.   Salon 1 & 2	Secure Cloud Adoption for Future Energy Systems 3:30 - 5:00 p.m.   Salon 3 & 4	Cyber Incident Response, Reporting, and Restoration in a Clean Energy Future 3:30 - 5:00 p.m.   Salon 6	Securing the Future: Energy Cyber Sense 3:30 - 4:30 p.m.   Salon 5	
5:00 p.m.				Securing Solar for the Grid (S2G) Overview 4:30 - 5:30 p.m.   Salon 5	
5:30 - 6:30 p.m.	<b>Evening Reception</b>   Arlington Foyer <i>Appetizers will be provided</i>				

# AGENDA

# ENERGY TRANSITION SUMMIT

## Grid Modernization Initiative and Clean Energy Cybersecurity

FEBRUARY 5-8, 2024 | ARLINGTON, VA

### DAY 3 | WEDNESDAY, FEBRUARY 7

TIME	TITLE			
7:30 a.m. - 5:00 p.m.	Registration and Badge Pickup   Arlington Foyer			
8:00 a.m.	GMI: Resilient and Secure Systems 8:00 - 9:45 a.m. Salon 1 & 2	Cybersecurity's Role in a Resilient Clean Energy Future 8:00 - 9:00 a.m.   Salon 3, 4, 5 & 6		
9:00 a.m.		The Role of Cyber Regulation and Standards for the Energy Transition 9:00 - 10:30 a.m.   Salon 3 & 4	Addressing Supply Chain Risk through Cyber-Informed Engineering 9:00 - 10:30 a.m.   Salon 6	ICScape: Solar, Wind, and Fire Cyber Escape Room 9:00 - 10:30 a.m.   Salon 5
10:00 a.m.	Networking Break			
11:00 a.m.	GMI: Markets, Policies, and Regulations 10:15 a.m. -12:00 p.m. Salon 1 & 2	Artificial Intelligence for the Energy Transition 10:30 a.m. - 12:00 p.m. Salon 3 & 4	Open Coordination and Information Sharing at Scale 10:30 a.m. - 12:00 p.m. Salon 6	ICScape: Solar, Wind, and Fire Cyber Escape Room 10:30 a.m. - 12:00 p.m. Salon 5
12:00 - 1:30 p.m.	Lunch			
2:00 p.m.	GMI: Operations 1:15 - 3:00 p.m.   Salon 1 & 2	Proactively Quantifying Cyber Risk 1:30 - 3:00 p.m.   Salon 3 & 4	Cybersecurity for Grid Edge Controllable Loads 1:30 - 3:00 p.m.   Salon 6	ICScape: Solar, Wind, and Fire Cyber Escape Room 1:30 - 3:00 p.m.   Salon 5
3:00 p.m.	Networking Break   Salon 1, 2, 3, 4 & 6			
4:00 p.m.	GMI: Planning 3:30 - 5:15 p.m.   Salon 1 & 2	Charging Ahead: Securing the Nation's Electric Vehicle Infrastructure 3:30 - 5:00 p.m.   Salon 3 & 4	Contracting and Legal Trends of Cybersecurity for the Energy Transition 3:30 - 5:00 p.m.   Salon 6	— Executive Session — ICScape: Solar, Wind, and Fire Cyber Escape Room 3:30 - 5:00 p.m.   Salon 5
5:00 p.m.				
5:30 - 6:30 p.m.	Evening Reception   Arlington Foyer <i>Appetizers will be provided</i>			

## AGENDA

# ENERGY TRANSITION SUMMIT

Grid Modernization Initiative and Clean Energy Cybersecurity

FEBRUARY 5-8, 2024 | ARLINGTON, VA

**DAY 4** | THURSDAY, FEBRUARY 8

TIME	TITLE				
7:30 - 8:00 a.m.	Registration and Badge Pickup   Arlington Foyer				
8:00 a.m.	All GMI Pillars Synergy Discussion 8:00 a.m. - 12:30 p.m. Salon 1 & 2	Cyber Exercises, Testing, and Evaluation 8:00 - 9:30 a.m. Salon 3	Energy Storage Systems Cyber Deployment 8:00 - 9:30 a.m. Salon 4	CyberStrike: STORMCLOUD Exercise 9:30 - 11:00 a.m. Salon 5	Cyber Situational Awareness for a More Interconnected Distributed Grid 8:00 - 9:30 a.m. Salon 6
9:00 a.m.					
10:00 a.m.		Clean Energy Coalition 9:30 - 11:00 a.m. Salon 3	Cybersecurity Approaches for a Converged Energy Future Deployment 9:30 - 11:00 a.m. Salon 4		Building the Bench: Preparing the Cyber Workforce 9:30 - 11:00 a.m. Salon 6
11:00 a.m.		Frameworks for Secure Cloud Deployment 11:00 a.m. - 12:30 p.m. Salon 3	The Role of Cyber Certifications and Labeling for the Energy Sector Deployment 11:00 a.m. - 12:30 p.m. Salon 4		Where Climate Policy and Cybersecurity Meet 11:00 a.m. - 12:30 p.m. Salon 6
12:00 p.m.					
1:00 - 5:00 p.m.	Renewable Energy and Storage Cybersecurity Research (RESCue) - Annual Workshop   Salon 6				
5:00 p.m.	Conference End				





# Energy Transition Summit:

## Grid Modernization Initiative and Clean Energy Cybersecurity

February 5-8, 2024 | Arlington, VA

### Detailed Agenda and Confirmed Speakers\*

#### **DAY 1** | Monday, FEBRUARY 5

##### Distributed Energy Resources and Clean Energy Cyber Threat Brief

1:00 - 2:00 p.m. | Salon 3 & 4

*Megan Culler, Idaho National Laboratory; Emma Stewart, Idaho National Laboratory*

##### Cloud Adoption Profiles

2:00 - 3:00 p.m. | Salon 3 & 4

*James Briones, DOE Grid Deployment Office; Emma Stewart, Idaho National Laboratory; Julia Morgan, Idaho National Laboratory*

##### CyberStrike: Stormcloud Exercise

2:00 - 5:00 p.m. | Salon 6

*Megan Culler, Idaho National Laboratory; Dan Noyes, Idaho National Laboratory*

##### National Association of Regulatory Utility Commissioners; Cyber Baselines Engagement

3:30 - 4:00 p.m. | Salon 3 & 4

*Joe Quinn, DOE Office of Cybersecurity, Energy Security, and Emergency Response*

##### Rural and Municipal Utility Cybersecurity

4:00 - 4:30 p.m. | Salon 3 & 4

*Cynthia Hsu, DOE Office of Cybersecurity, Energy Security, and Emergency Response*

##### Workforce Development

4:30 - 5:30 p.m. | Salon 3 & 4

*Cynthia Hsu, DOE Office of Cybersecurity, Energy Security, and Emergency Response*

*\*Additional speakers to be added upon confirmation.*

## DAY 2 | TUESDAY, FEBRUARY 6

### OPENING PLENARY

#### Framing the Energy Transition: Challenges and Opportunities

9:00 – 10:00 a.m. | Salon 3 & 4

*The opening plenary session will kick off with keynote speakers from Congress, the White House Office of the National Cyber Director, the White House Office of Science and Technology Policy, and DOE leadership.*

#### DOE's Vision for a Modern Grid

10:00 – 11:00 a.m. | Salon 3 & 4

*Susan Tierney, Resources for the Future; Gene Rodrigues, DOE Office of Electricity; Jeff Marootian, DOE Office of Energy Efficiency and Renewable Energy; Brad Crabtree, DOE Office of Fossil Energy and Carbon Management; Maria Robinson, DOE Grid Deployment Office; Puesh Kumar, DOE Office of Cybersecurity, Energy Security, and Emergency Response*

#### Market Solutions to Advance the Grid Transition

11:00 a.m. – 12:00 p.m. | Salon 3 & 4

*Shalanda Baker, DOE Office of Energy Justice and Equity; Marissa Hummon, Utilidata; John Franzino, GridSecurity; Frank Prager, Xcel; Lidija Sekaric, National Rural Electric Cooperative Association; Colette Honorable, Exelon*

#### GMI Devices and Integrated Systems

1:15 – 3:00 p.m. | Salon 1 & 2

*Joe Hoagland, Tennessee Valley Authority; Jim LeBlanc, General Electric; Clifton Black, Southern Company; Juan Castenda, Southern California Edison*

#### The Chief Information Security Officer (CISO) Role in a Renewable and Distributed Future

1:30 – 3:00 p.m. | Salon 3 & 4

*Brian Barrios, Southern California Edison; Brian Harrell, Avangrid; Teza Mukkavilli, Charge Point; Adam Lee, Dominion*

#### Cybersecurity for Inverter-Based Resources

1:30 – 3:00 p.m. | Salon 6

*Tom Tansy, Sunspec; Marissa Morales-Rodriguez, DOE Office of Energy Efficiency and Renewable Energy; Sean Peisert, Lawrence Berkeley National Laboratory*

#### How Artificial Intelligence May Help and Hinder the Secure Energy Transition

1:30 – 3:30 p.m. | Salon 5

*Andy Bochman, Idaho National Laboratory; Colin Ponce, Lawrence Livermore National Laboratory; Chris Lamb, Sandia National Laboratories*

#### GMI: Flexible Generation and Load

3:30 – 5:15 p.m. | Salon 1 & 2

*Ning Kang, Idaho National Laboratory; Debbie Lew, Energy Systems Integration Group; Aidan Tuohy, Electric Power Research Institute; Uuganbayar Otgonbaatar, Constellation; Clyde Loutan, California Independent System Operator*

#### Secure Cloud Adoption for Future Energy Systems

3:30 – 5:00 p.m. | Salon 3 & 4

*Samara Moore, Amazon Web Services; Kal Ayoub, Federal Energy Regulatory Commission; James Briones, DOE Grid Deployment Office*

## Cyber Incident Response, Reporting, and Restoration in a Clean Energy Future

3:30 - 5:00 p.m. | Salon 6

*Keith Rose*, Operant Networks; *Matt Duncan*, North American Electric Reliability Corporation and Electricity Information Sharing and Analysis Center; *Matt Tarduogno*, DOE CESER; *Jeff Baumgartner*, Berkshire Hathaway Energy

## Principles for Cybersecurity Risk Management in the Energy Sector

3:30 - 4:30 p.m. | Salon 5

*Brian Lytle*, Idaho National Laboratory; *Maggie Morganti*, Rockwell Automation; *Megan Samford*, Schneider Electric; *Christopher Strain*, EverBright

## Securing Solar for the Grid (S2G) Overview

4:30 - 5:30 p.m. | Salon 5

*Jake Gentle*, Idaho National Laboratory; *Marissa Morales-Rodriguez*, DOE Office of Energy Efficiency and Renewable Energy

# DAY 3 | Wednesday, FEBRUARY 7

## Keynote

8:00 - 8:15 a.m. | Salon 3, 4

Keynote: *Anne Neuberger*, National Security Council

## Cybersecurity's Role in a Resilient Clean Energy Future

8:15 - 9:00 a.m. | Salon 3, 4

Discussion: *Puesh Kumar*, DOE Office of Cybersecurity, Energy Security, and Emergency Response; *Eric Goldstein*, Cybersecurity and Infrastructure Security Agency

## GMI: Resilient and Secure Systems

8:00 - 9:45 a.m. | Salon 1 & 2

*Venkat Banunaryanan*, National Rural Electric Cooperative Association; *Digaunto Chatterjee*, Eversource Energy; *Stephen Walls*, Hawaii State Energy Office; *David White*, Axio

## The Role of Cyber Regulation and Standards for the Energy Transition

9:00 - 10:30 a.m. | Salon 3 & 4

*Patrick Miller*, Ampere Industrial Security; *Rob Morgus*, Berkshire Hathaway Energy; *Adam Rosenstein*, Enphase Energy; *Alan Herd*, Federal Energy Regulatory Commission; *Richard Dick Brooks*, Reliable Energy Analytics

## Engineering Cyber Defense into the Clean Energy Transition

9:00 - 10:30 a.m. | Salon 6

*Virginia Ginger Wright*, Idaho National Laboratory; *Marc Sachs*, Auburn; *Steven Kunsman*, Hitachi; *Richard Macwan*, National Renewable Energy Laboratory; *Eric Hall*, North Carolina Electric Membership Corporation; *Matt Luallen*, University of Illinois Urbana-Champaign

## ICScape: Solar, Wind, and Fire Cyber Escape Room

9:00 - 10:30 a.m. | Salon 5

## GMI: Markets, Policies, and Regulations

10:15 a.m. -12:00 p.m. | Salon 1 & 2

*Carl Pechman*, National Energy Technology Laboratory; *Danielle Sass Byrnett*, National Association of Regulatory Utility Commissioners; *Janice Beecher*, Michigan State University; *Tom Wilson*, Electric Power Research Institute

### Artificial Intelligence for the Energy Transition

10:30 a.m. - 12:00 p.m. | Salon 3 & 4

*Helena Fu*, DOE Office of Critical and Emerging Technology; *Harold Booth*, National Institute of Standards Technology; *Phil Trainor*, Nozomi; *Dan Arnold*, Lawrence Berkeley National Laboratory

### Open Coordination and Information Sharing at Scale

10:30 a.m. - 12:00 p.m. | Salon 6

*Frank Honkus*, Electricity Information Sharing and Analysis Center

### ICScape: Solar, Wind, and Fire Cyber Escape Room

10:30 a.m. - 12:00 p.m. | Salon 5

### GMI: Operations

1:15 - 3:00 p.m. | Salon 1 & 2

*Mark Lauby*, North American Electric Reliability Corporation; *Tim Beach*, Reliability Coordinator West, California Independent System Operator; *Clay Koplin*, Cordova Electric; *Mary Ngo*, Pacific Science & Engineering

### Proactively Quantifying Cyber Risk

1:30 - 3:00 p.m. | Salon 3 & 4

*David White*, Axio

### Cybersecurity for Grid Edge Controllable Loads

1:30 - 3:00 p.m. | Salon 6

*Jon White*, National Renewable Energy Laboratory; *Jeremiah Miller*, Sense; *Gary Kneeland*, Claroty

### ICScape: Solar, Wind, and Fire Cyber Escape Room

1:30 - 3:00 p.m. | Salon 5

### GMI: Planning

3:30 - 5:15 p.m. | Salon 1 & 2

*Gareth Williams*, National Renewable Energy Laboratory; *Morgan Scott*, Electric Power Research Institute; *Stephen Torres*, Southern California Edison; *Mark Ahlstrom*, Energy Systems Integration Group and NextEra; *Honghao Zheng*, ComEd

### Charging Ahead: Securing the Nation's Electric Vehicle Infrastructure

3:30 - 5:00 p.m. | Salon 3 & 4

*Tim Weisenberger*, Society of Automotive Engineers; *Swapan Das*, Blink; *Victor Calderon*, Southern California Edison; *Craig Rodine*, Sandia

### Contracting and Legal Trends of Cybersecurity for the Energy Transition

3:30 - 5:00 p.m. | Salon 6

*Evan Wolff*, Crowel; *Sharla Artz*, Xcel; *Andrew Wills*, Invenergy; *Shari Gribbin*, CNK Solutions

### Executive Session: ICScape: Solar, Wind, and Fire Cyber Escape Room

3:30 - 5:00 p.m. | Salon 5

## DAY 4 | THURSDAY, FEBRUARY 8

### All GMI Pillars Synergy Discussion

8:00 a.m. - 12:30 p.m. | Salon 1 & 2

### Scaling to Secure the Clean Energy Transition through Cyber Defense Exercises

8:00 - 9:30 a.m. | Salon 3

*Shane McFly, National Renewable Energy Laboratory; Jeremy Jones, Idaho National Laboratory; Alex Waitkus, Southern Company*

### Fortifying Energy Storage: Cybersecurity, Supply Chain, and Incident Management in a Dynamic World

8:00 - 9:30 a.m. | Salon 4

*Katherine Hutton, Fluence Energy; Shaun Boggs, Key Capture Energy; Navroop Mitter, ArmorText*

### CyberStrike: STORMCLOUD Exercise

9:30 - 11:00 a.m. | Salon 5

### Cyber Situational Awareness for a More Interconnected Distributed Grid

8:00 - 9:30 a.m. | Salon 6

*Marty Edwards, Tenable; James Rimensnyder, Xcel Energy; David Manz, Pacific Northwest National Laboratory; Jacob Morris, Naval Facilities Engineering Systems Command*

### Clean Energy Coalition

9:30 - 11:00 a.m. | Salon 3

*Gizelle Wray, Savion; Shari Gribbon, National Renewable Energy Laboratory*

### Cybersecurity Approaches for a Converged Energy Future Deployment

9:30 - 11:00 a.m. | Salon 4

*Richard Macwan, National Renewable Energy Laboratory; Jay Johnson, DER Security Corp; Young Ngo, Survalent; Tobias Whitney, Fortress*

### Building the Bench: Preparing the Cyber Workforce

9:30 - 11:00 a.m. | Salon 6

*Tom Van Norman, ICS Village; Dan Harkness, Argonne National Laboratory*

### Strategizing Responsible Cloud Integration in the Electric Grid: Frameworks, Testbed Infrastructure and Industrial Engagement

11:00 a.m. - 12:30 p.m. | Salon 3

*Emma Stewart, Idaho National Laboratory; James Briones, DOE Grid Deployment Office; Anthony Wallace, National Renewable Energy Laboratory; Liang Downton, Microsoft; Julie Morgan, Idaho National Laboratory*

### The Role of Cyber Certifications and Labeling for the Energy Sector Deployment

11:00 a.m. - 12:30 p.m. | Salon 3

*Danish Saleem, National Renewable Energy Laboratory*

### Where Climate Policy and Cybersecurity Meet

11:00 a.m. - 12:30 p.m. | Salon 6

*Steve Kelly, Institute for Security and Technology; Ann Cleaveland, University of California, Berkeley; Joel Max, Siemens; Sarah Powazek, University of California, Berkeley*



Renewable Energy and Storage Cybersecurity Research (RESCue) - Annual Workshop  
1:00 p.m. – 5:00 p.m. | [Salon 6](#)

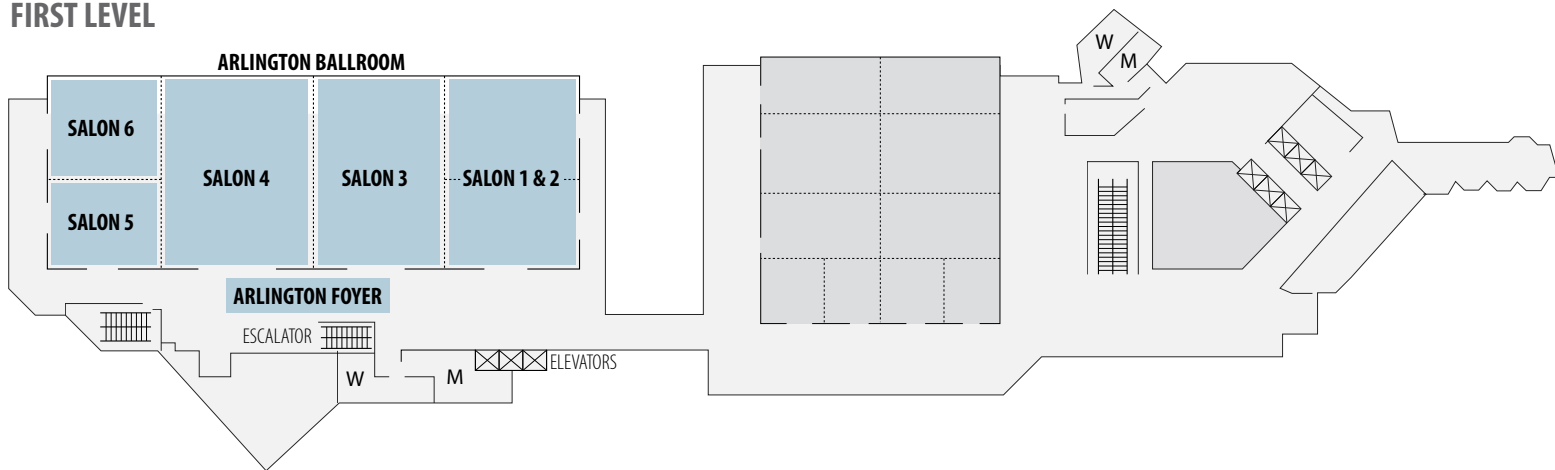
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## Crystal Gateway Marriott

1700 Richmond Hwy  
Arlington, VA 22202

### FIRST LEVEL



### LOBBY LEVEL

