

# ISWG Energy Exchange Updates

## EEx19 Recap and Overview

FEMP

12/03/2019



# ENERGY EXCHANGE

# BE EFFICIENT AND RESILIENT

AUGUST 20 – 22, 2019  
 COLORADO CONVENTION CENTER  
 DENVER, CO

## OVERALL REGISTRATION BY TYPE

**2,565**

**PUBLIC ATTENDEES**

**PRIVATE ATTENDEES**

**1,223**

**1,342**

**Federal Attendees**

**Nonfederal Attendees**

**1,128**

**95**

**FED  
Attendee**

**FED  
Speaker**

**NONFED  
Attendee**

**NONFED  
Speaker**

**NONFED  
Exhibitor**

**PRIVATE  
Attendee**

**PRIVATE  
Speaker**

**PRIVATE  
Exhibitor**

**935**

**193**

**62**

**17**

**16**

**821**

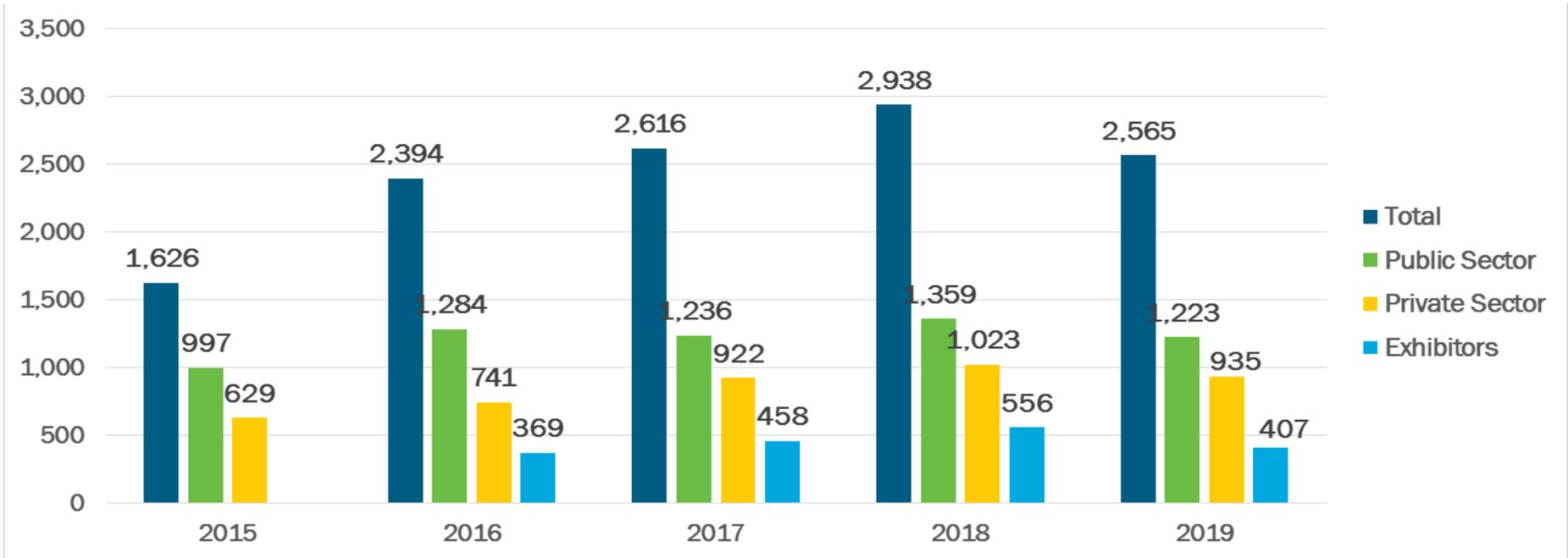
**114**

**407**



# Energy Exchange Registration: 2015–2019

## Section 1: Registration Analysis

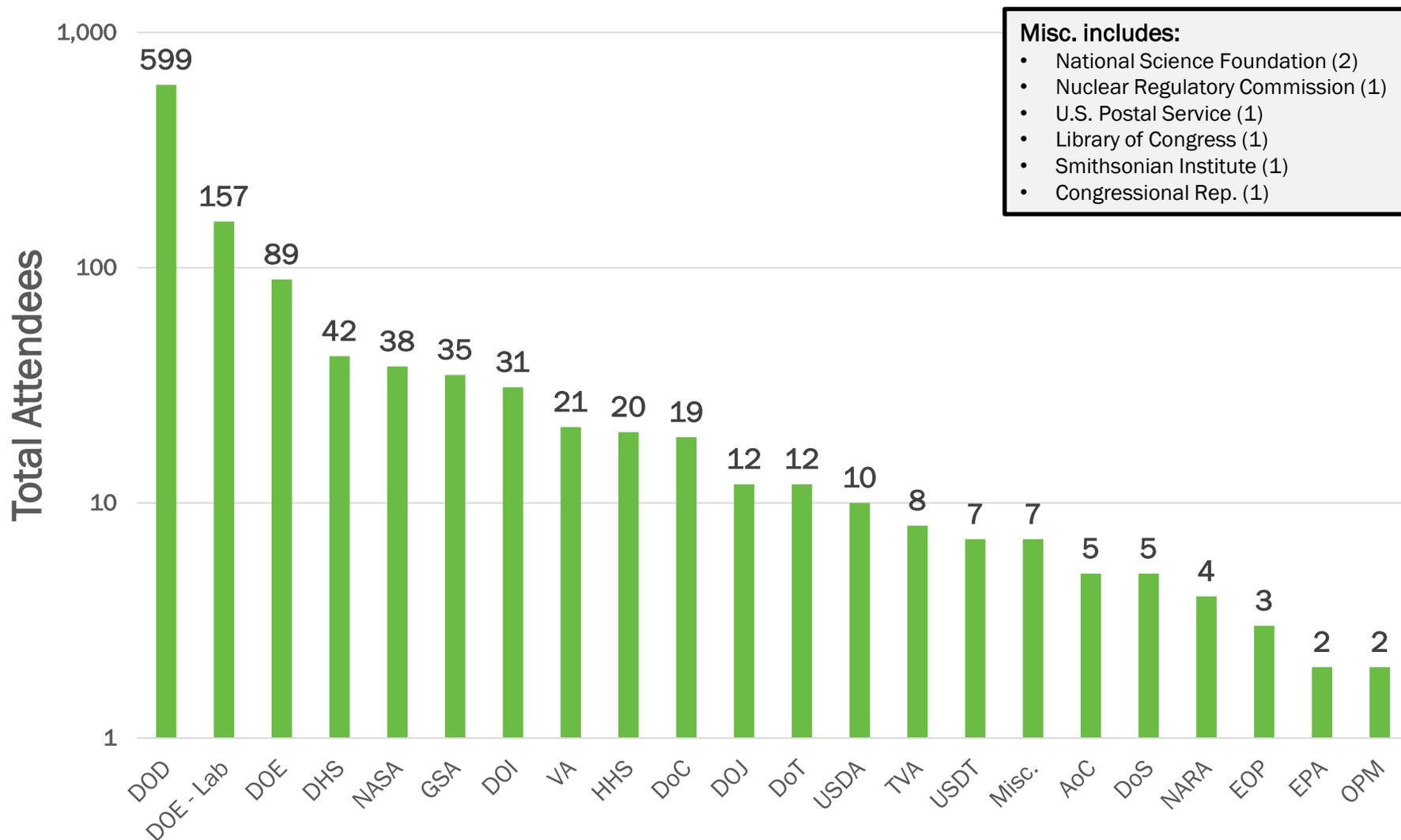


Type	2015	% Change 2015 to 2016	2016	% Change 2016 to 2017	2017	% Change 2017 to 2018	2018*	% Change 2018 to 2019	2019
Public Sector	997	↑28.8%	1,284	↓-3.7%	1,236	↑9.9%	1,358	↓-10.0%	1,223
Private Sector	629	↑17.8%	741	↑24.4%	922	↑11.1%	1,024	↓-8.6%	935
Exhibitors	N/A*	N/A	369	↑24.1%	458	↑21.4%	556	↓-26.8%	407
<b>Total</b>	<b>1,626</b>	<b>↑47.2%</b>	<b>2,394</b>	<b>↑9.3%</b>	<b>2,616</b>	<b>↑12.3%</b>	<b>2,938</b>	<b>↓-12.7%</b>	<b>2,565</b>

\*Includes the co-hosted Better Buildings Summit

# Agency Representation

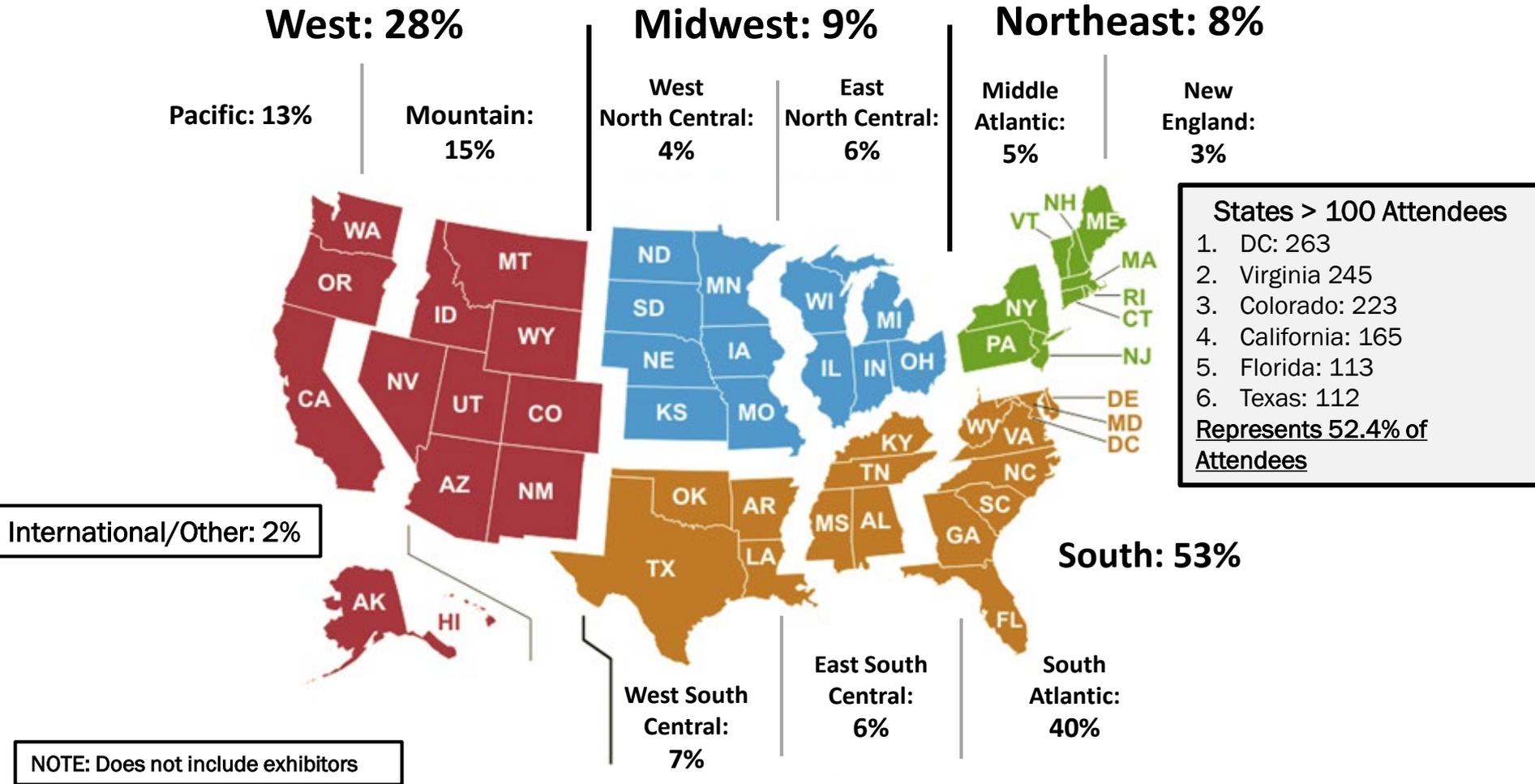
## Section 1: Registration Analysis



\*Logarithmic Scale

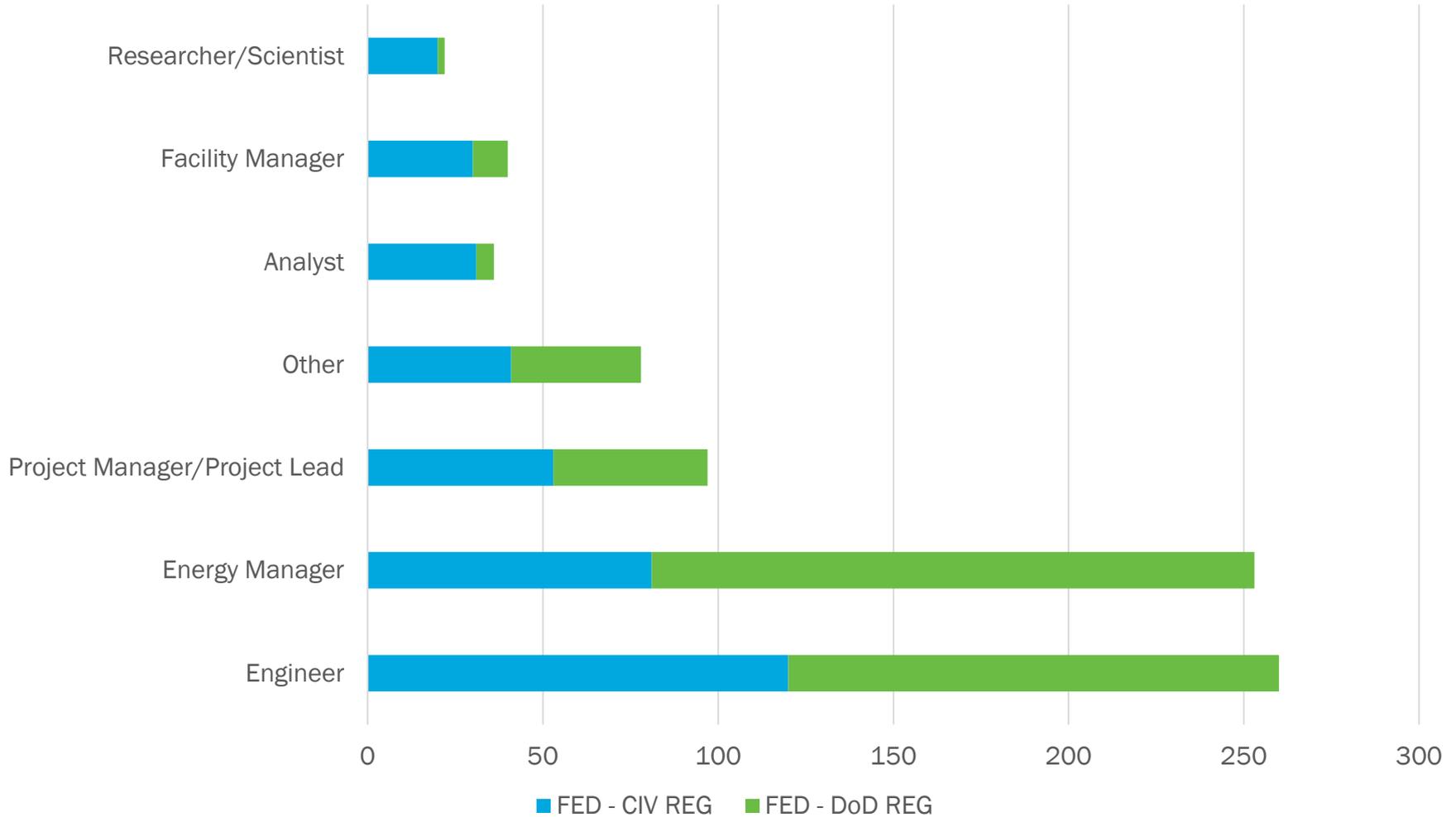
# Registration by Location

## Section 1: Registration Analysis



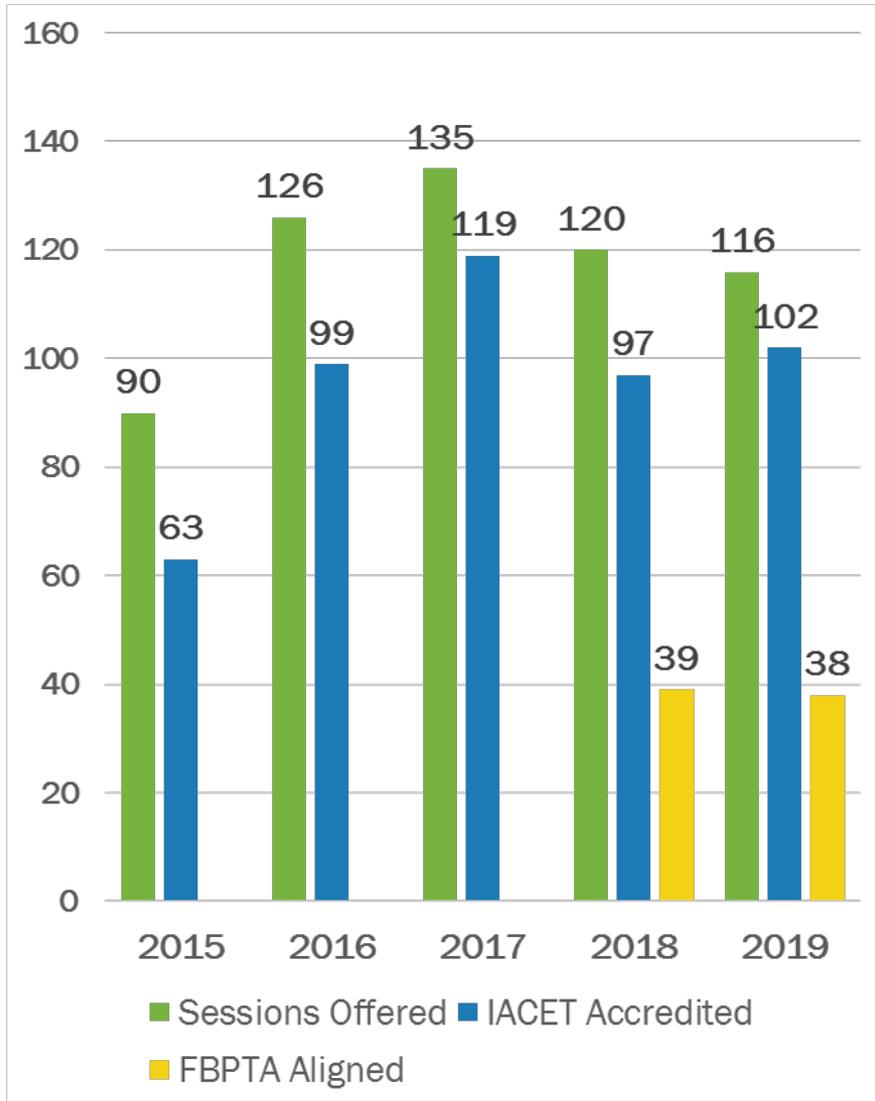
# Registration by Job Function

Job Functions (Public Sector Registrants Only)



# Technical Program History

## Section 2: Technical Program Analysis



Year	Technical Tracks	Sessions Offered	IACET Accredited	% Accredited	FBPTA Aligned
2015	10	90	63	70.0%	0
2016	14	126	99	78.6%	0
2017	15	135	119	88.2%	0
2018	14	120	97	80.8%	39
2019	13	116	102	87.9%	38

# 2019 Technical Training Program – 13 Tracks

## Implementing Federal Policy & Direction

1. Policy and Strategies

## Integrating Resilience & Design for Agency Mission

2. Energy and Water Resilience Planning
3. Integrated Facility and Installation Design
4. Resilience Project Implementation

## Optimizing Building Management & Maintenance

5. Building Optimization Essentials
6. Advanced Analytics for Building Performance
7. Energy & Water Management

## Utilizing Effective, Efficient & Secure Technologies

8. Advanced Effective Technologies
9. Cybersecurity Technologies and Control Systems
10. Optimized Fleets

## Leveraging Affordable Financing & Partnerships

11. Financing & Performance Contracting
12. Performance Assurance & Utility Partnership
13. Financing for Resilience

### *Learning Objectives*

CEQ and OMB Perspectives  
Agency Leadership Roundtables

Cost-Effective Technologies and Generation  
Integrated Design, Buildings and Technologies  
Energy Storage

Cost-Effective Operations and M&V  
Cybersecurity & Data Analytics  
Cost and Waste Reduction  
Auditing Requirements and Methodologies

Emerging Technologies  
Distributed Resources and Storage  
Cybersecurity Integration & Assessment  
Fleet

Financing: Basics, Topics, and Trends  
Performance Assurance – Basics & Topics  
Utility Partnership & Trends  
Financing Resilience

# Track Attendance

## Section 2: Technical Program Analysis

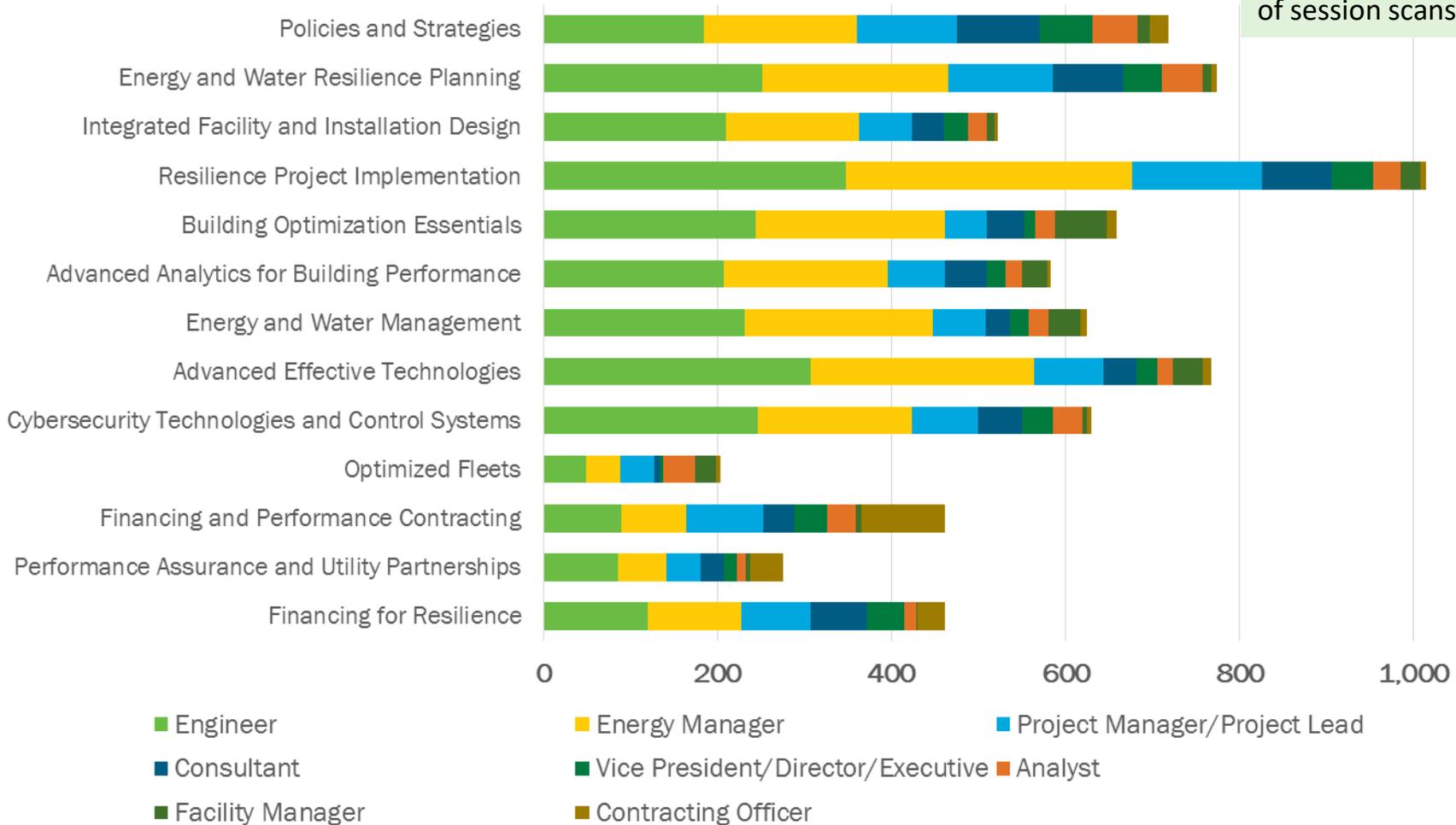
Track #	Track Title	Scans	Average Scans per Session
4	Resilience Project Implementation	1,468	163
2	Energy and Water Resilience Planning	1,232	137
1	Policies and Strategies	1,202	134
8	Advanced Effective Technologies	1,103	123
9	Cybersecurity Technologies and Control Systems	961	107
5	Building Optimization Essentials	928	103
7	Energy and Water Management	870	97
6	Advanced Analytics for Building Performance	827	92
11	Financing and Performance Contracting	778	86
3	Integrated Facility and Installation Design	763	85
13	Financing for Resilience	733	81
12	Performance Assurance and Utility Partnerships	518	58
10	Optimized Fleets	417	46

# Who Went to Which Track

## Section 2: Technical Program Analysis

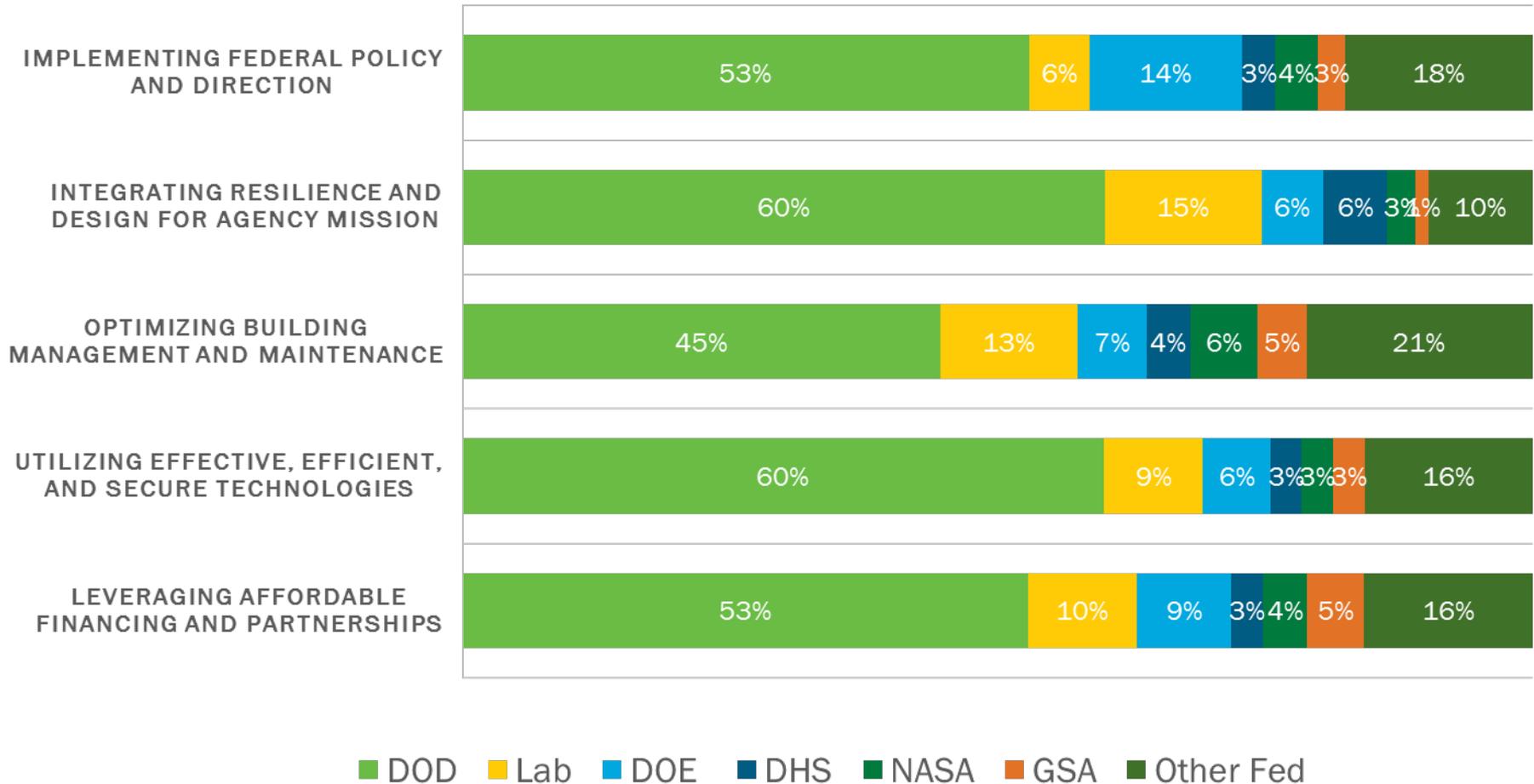
Job Functions > 200 Track Scans

Energy Managers and Engineers account for the highest percentage of session scans



# Federal Scans by Focus Areas

## Section 2: Technical Program Analysis



# Most Attended Sessions

## Section 2: Technical Program Analysis

### Key findings:

- Technology-focused sessions, leadership panels, and resilience sessions remain highly attended
- Energy Managers and Engineers account for the highest percentage of session scans

Most Attended Sessions			
Track	Session	Session Title	Scans
4	1	Microgrid Implementation	289
8	1	New Energy Storage Technologies	229
2	3	Defining and Aligning Critical Resilience Requirements	225
1	7	DoD Deputy Assistant Secretary Panel	217
1	5	White House Directives	197
8	2	Distributed Energy Technologies	195
2	1	Agency Resilience Framework Overview	193
4	3	Using Combined Heat and Power for Efficient Resilience	191
4	4	Integrating Renewables and Non-Renewables for Resilience	191
2	4	Assigning Value and Prioritizing Resilience Requirements	188

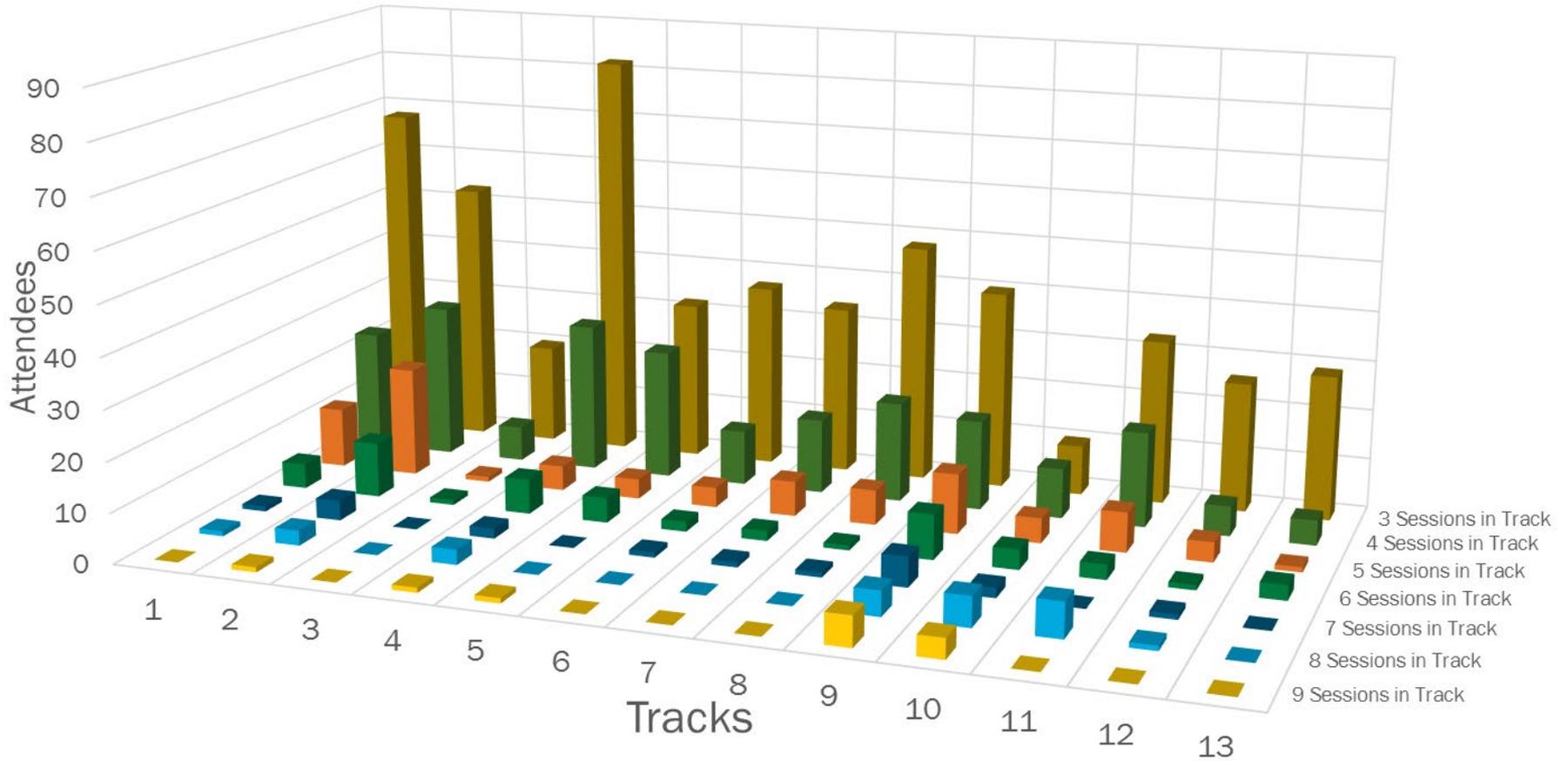
- Session 1 = most attended session (1,567)
- Session 9 = least attended session (1,075)

# Most Attended Sessions – *by Civilian Agencies*

## Section 2: Technical Program Analysis

Rank	Track	Session	Session Title	Civ Fed Attendees	Total Attendees	% DOD Attendees
#1	1	5	White House Directives	86	196 (#5)	44%
#2	8	1	New Energy Storage Technologies	68	229 (#2)	30%
#3	2	1	Agency Resilience Framework Overview	62	193 (#7)	32%
#4	1	4	Energy Legislation in Congress	61	168	36%
#5	7	3	Building Energy Management Systems	61	156	39%
#6	7	1	Energy and Water Assessments: Virtual and Conventional	53	130	41%
#7	1	8	Energy Innovation	51	166	31%
#8	2	2	Risk Management and Planning for All Hazards	50	137	36%
#9	5	6	Commissioning for New and Existing Buildings	50	126	40%
#10	7	5	O&M and Retuning for Energy Savings and Resilience	49	127	39%
#11	3	8	Smart Labs for Today's Energy Reality	46	71	65%
#12	8	4	Advanced HVAC Technologies	46	156	29%
#13	6	1	Enterprise Analytics: Leveraging the Data Dump	45	103	44%
#14	3	9	Effective Implementation of ASHRAE 90.1 2013 Requirements	44	109	40%
#15	5	2	Auditing 101	44	110	40%

# Repeat Track Attendance



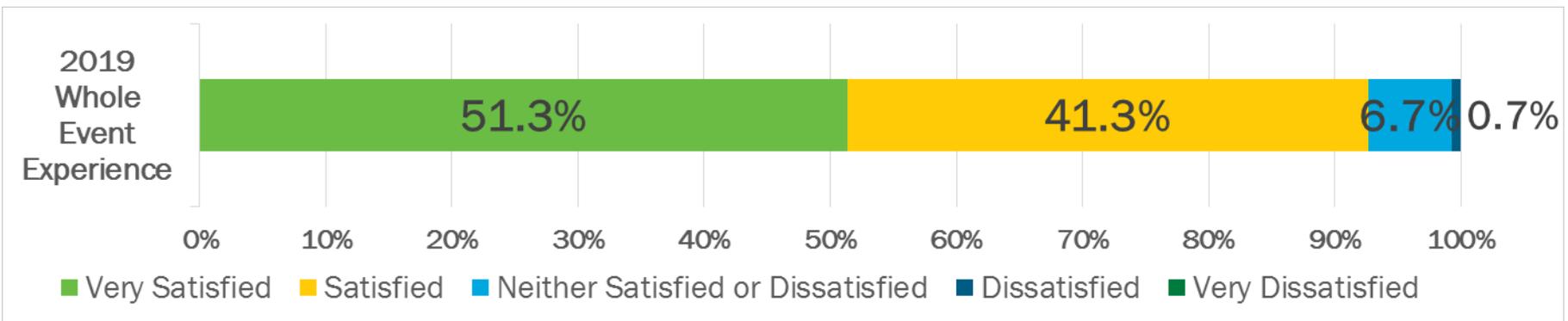
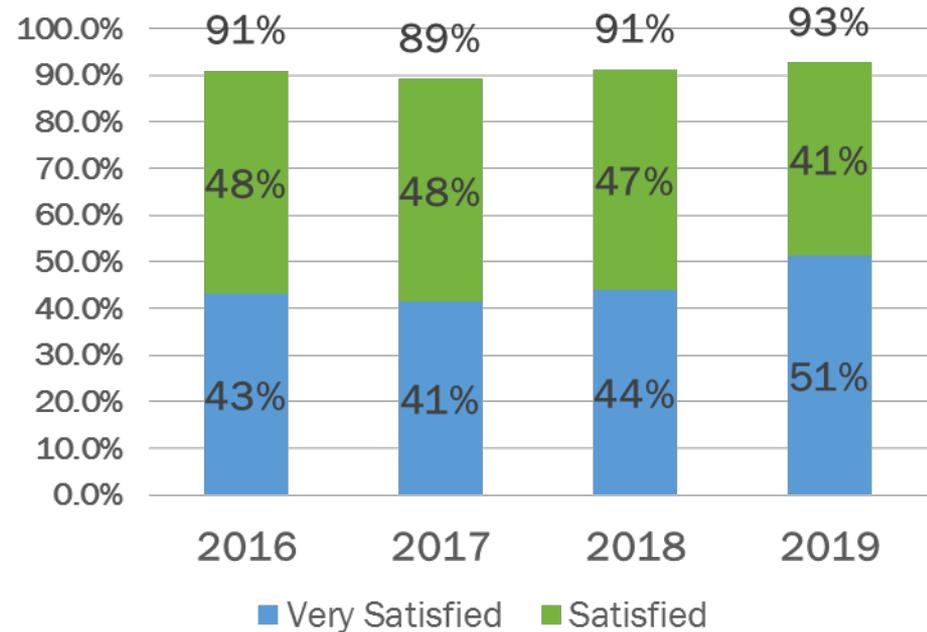
TRACK 1	TRACK 2	TRACK 3	TRACK 4	TRACK 5	TRACK 6	TRACK 7	TRACK 8	TRACK 9	TRACK 10	TRACK 11	TRACK 12	TRACK 13
Policies and Strategies	Resilience Planning	Integrated Facility and Installation Design	Resilience Project Imp.	Building Optimization Essentials	Advanced Analytics for Building Performance	Energy and Water Management	Advanced Effective Technologies	Cybersecurity Technologies and Control Systems	Optimized Fleets	Financing and Performance Contracting	Performance Assurance and Utility Partnerships	Financing for Resilience

# Attendee Experience

## Section 3: Survey Analysis

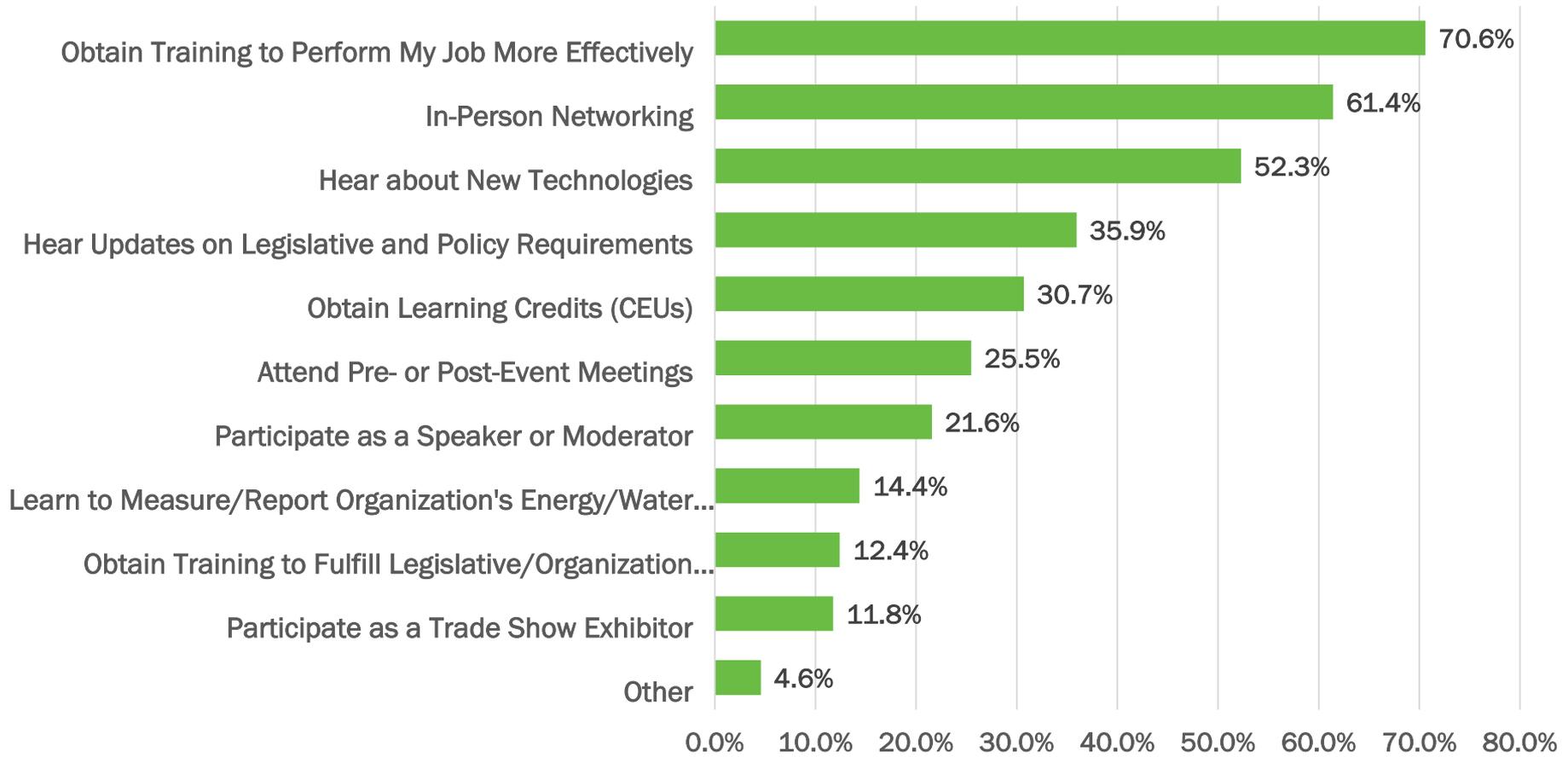
- **93%** of survey responders were satisfied or very satisfied with the whole event experience, **the highest rate since administering surveys**

### Historical Event Satisfaction



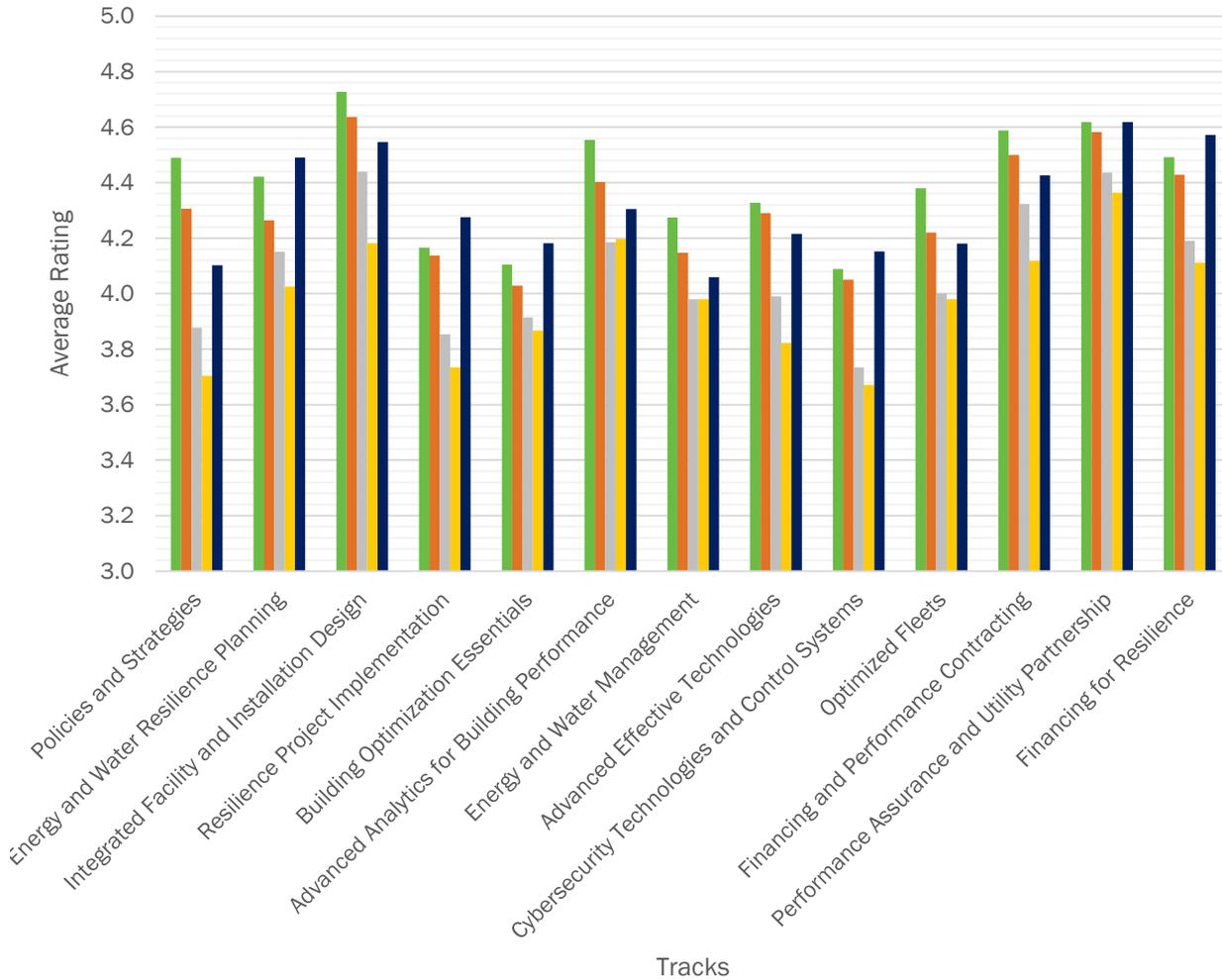
# Main Reasons for Attending Energy Exchange

## Section 3: Survey Analysis



# Impact of Training

## Section 3: Survey Analysis



## 5 In-App Questions about each Session

- 1. Overall, the material in this session was well-presented.
- 2. This session was highly informative.
- 3. What I learned in this session will help me perform my job better.
- 4. Implementing the information presented in this session will help produce measurable results in my organization.
- 5. The topic of this session is of growing importance for my job.

# Energy Exchange 2020

Atlanta, GA

GA World  
Congress Center

August 11-13



# Civilian Agency Participation Facilitation

What to think about? How can FEMP enhance the value proposition for individuals and agency leadership to ensure they can attend this training event?



Have Questions/Comments/Need Assistance?

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