

2023 Workshop on SF₆ Emission Reductions and Alternatives

July 25–26 | Salt Lake City, Utah



Agenda and Program



Agenda at a glance

MONDAY JULY 24

2pm – 8pm: Registration open, 2nd floor, Parley's 1&2

6pm – 10pm: Opening Reception (independently sponsored event by Meiden America Switchgear), 2nd floor, Parley's 1&2

TUESDAY JULY 25

All-day: vendor tabletop exhibits

8am – 9am: Breakfast provided, 2nd floor, Wasatch ballroom foyer

9am – 12:30pm: Session 1, Considerations for Transitioning from SF₆ to Alternatives

12:30pm – 1:30pm: Lunch provided, 2nd floor, Wasatch ballroom foyer

1:30pm – 5:30pm: Product Education Sessions, 2nd floor breakout rooms

6pm – 9pm: Dinner (independently sponsored event by DILLO), Christophers Prime & Sonoma Wine Bar

WEDNESDAY JULY 26

All-day: vendor tabletop exhibits

8am – 9am: Breakfast provided, 2nd floor, Wasatch ballroom foyer

9am – 12:30pm: Session 2, Considerations to Meet Regulations and Reporting Requirements

12:30pm – 1:30pm: Lunch Provided, 2nd floor, Wasatch ballroom foyer

1:30pm – 4:30pm: Session 3, Best Practices for Emission Reductions

Session 1, Considerations for Transitioning from SF₆ to Alternatives

Tuesday, July 25, 2023

- 9:00am Lauren Aepli: Welcome and Opening Remarks
- 9:15am Vacuum and Clean Air Technologies Panel
- 10:15am Break
- 10:30am Alternative Gas Technologies Panel
- 11:30am Neil Gwinnutt: Insulating Gas Analysis
Considerations for Transitioning from SF₆ to Alternatives
- 12:00pm Bob Laverne: SF₆ Supply Chain Overview and Status

All session slides will be published to the EPA website after the workshop
(www.epa.gov/eps-partnership)

Session 1, Considerations for Transitioning from SF₆ to Alternatives

Vacuum and Clean Air Technologies Panel

Moderated by Lauren Aepli, US EPA



Arben S. Bufi, Ph.D.
Senior Principal Engineer
Meiden America Switchgear



Naeem Siddiqui
Head of Offer Management, Switchgear
Americas
Siemens Energy



Paul Hatala
Marketing and Product Manager, HVSD
Mitsubishi Electric Power Products, Inc.

Session 1, Considerations for Transitioning from SF₆ to Alternatives

Fluorinated Gas Technologies Panel

Moderated by Jonathan Stewart, NEMA



Mauricio Aristizabal
Technology Center Manager North
America
Hitachi Energy



Billy Lao
General Manager
DILO Company / DILO Direct



Phil Fahey
Senior Director Business Development
Metal-Enclosed Switchgear
S&C Electric



Todd Irwin
Business Development Manager –
HVCB
GE Grid Solutions

Session 1, Considerations for Transitioning from SF₆ to Alternatives

Session 1 Speakers



Lauren Aepli
Program Manager
US EPA

Neil Gwinnutt
VP Global Sales & Technical Service
Energy Maintenance Technologies Ltd



Bob Laverne
Director of Business Development
Concorde Specialty Gases



Product Education Sessions

Tuesday, July 25, 2023

In these 50-minute sessions, workshop participants will be able to attend up to four vendor-sponsored breakouts to learn about and discuss emission reductions and SF₆-alternative technologies.

Time	Red Butte	Millcreek	Parley's 1	Parley's 2
1:30pm	MEPPI	S&C	DILO	Hitachi Energy
2:30pm	RH Systems	Schneider	GE Grid Solutions	G&W
3:30pm	MEPPI	S&C	DILO	Hitachi Energy
4:30pm	RH Systems	Schneider	GE Grid Solutions	G&W

The U.S. Environmental Protection Agency does not endorse the products, services, or enterprises of non-federal entities, including those in this workshop.

Session 2, Considerations to Meet Regulations & Reporting Requirements

Wednesday, July 26, 2023

- 9:00am Debbie Ottinger: SF₆ Emission Trends, A Refresher on the Mass Balance Approach, and Review of Proposed Amendments to the Greenhouse Gas Reporting Program
- 10:15am Break
- 10:30am Jonathan Stewart: Review of State and Industry Activities related to SF₆ and Gas Alternatives
- 11:00am Cindy Parsons: Feedback on Implementation of the New GIE Nameplate Adjustment Procedure
- 11:30am Rafael Derencio: Online Monitoring for Preventive/Predictive Maintenance on Alternative Gas Systems
- 12:00pm Dan Schiffbauer: Update on Industry Standards

All session slides will be published to the EPA website after the workshop (www.epa.gov/eps-partnership)

Session 2, Considerations to Meet Regulations & Reporting Requirements

Session 2 Speakers



Debbie Ottinger
Fluorinated GHG Emissions Analyst
USEPA

Jonathan Stewart
Managing Director, Utility Systems
National Electrical Manufacturers
Association



Cindy Parsons
Environmental Affairs
Los Angeles Department of Water
and Power

Session 2, Considerations to Meet Regulations & Reporting Requirements

Session 2 Speakers, continued



Rafael Derencio
Product Manager
WIKA



Dan Schiffbauer. P.E.
Technology Executive
Toshiba

Session 3, Best Practices for Emission Reductions

Wednesday, July 26, 2023

- 1:30pm Mark Christensen: Advancements in SF₆ Emission Reductions
- 2:15pm Chris Barrett: Reshaping The Grid Through Gas Stewardship: How Insulating Gas Reconditioning and Recycling Can Lower Your Carbon Footprint
- 3:00pm Break
- 3:15pm Linus Farias: Lessons Learned from a Utility Program to Minimize Leakage and Eliminate SF₆ Gas Use in Gas Insulated Equipment
- 4:00pm Jonathan Stewart: Closing Remarks

All session slides will be published to the EPA website after the workshop (www.epa.gov/eps-partnership)

Session 3, Best Practices for Emission Reductions

Session 3 Speakers



Mark Christensen
Manager Apparatus and Maintenance
Southern California Edison

Chris Barrett
Regional Sales Manager-
Northwest USA
DILO Company / DILO Direct



Session 3, Best Practices for Emission Reductions

Session 3 Speakers, continued

Linus Farias
Principal
Net Zero Strategies



Tom Rak
Principal Engineer
Net Zero Strategies



Tabletop Exhibitors

