

# DEPLOY24

The future of  
American energy.



December 4-5, 2024  
Washington, D.C.

[DeployTogether.com](https://DeployTogether.com)

# INTRODUCTION

On December 4th and 5th 2024, over 1,700 clean energy leaders, investors, and policymakers convened in Washington D.C. for Deploy24, the premier conference for clean energy deployment.

Hosted by the U.S. Department of Energy and its Office of Infrastructure and Loan Programs Office, Deploy24 marked the second annual Demonstrate, Deploy, Decarbonize conference.

Deploy24 showcased innovative clean energy technologies, facilitated in-depth workshops, and forged public-private partnerships to further strengthen America's energy security, independence, and abundance.

**"The journey to build big things is just getting started."**

**Jigar Shah**

Director of the Loan Programs Office  
U.S. Department of Energy



A photograph of two men in business attire shaking hands. The man on the left is Black, wearing a blue checkered suit jacket, a white shirt, a dark tie, and glasses. The man on the right is white, wearing a grey suit jacket, a light blue shirt, and glasses. They are standing in front of a green and pink backdrop with the 'DEPLOY24' logo. The man on the right has a name tag that says 'DECARBONIZE' and a lanyard with a badge that says 'DEMONSTRATE'.

“This was the best conference I ever attended.

What I enjoyed the most is that you brought together so many different stakeholder groups. Investors, developers, EPC contractors, tech companies, insurers, start-ups, mature companies – all across different technologies. It was an excellent way to mix with other ‘ecosystem members’ who are all required to make the energy transition happen.

Also, the different formats were great to get informed, inform, discuss, and together work on solutions.”

SVP New Technologies & Energy Transition,  
Financial Institution

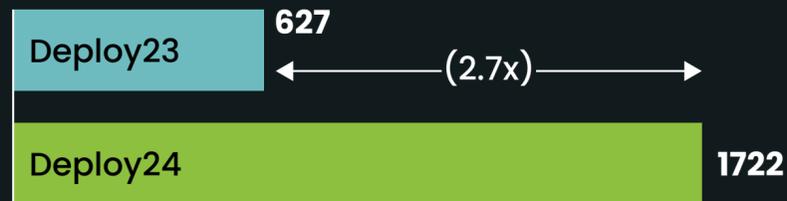
### Participation



**1722** total attendees

**1019** participating organizations

**46** states, plus D.C. and Puerto Rico



Total attendees

### Programming

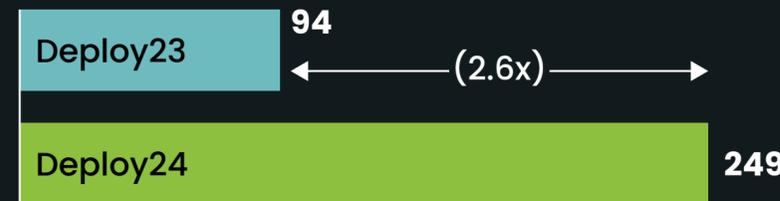


**102** hours over two days

**113** unique sessions

**249** speakers

**388** Deploy Dialogue\* participants



Speakers

### Engagement



**62** DOE offices & government entities

**600+** scheduled meetings with Federal staff

**37** featured DOE awardees

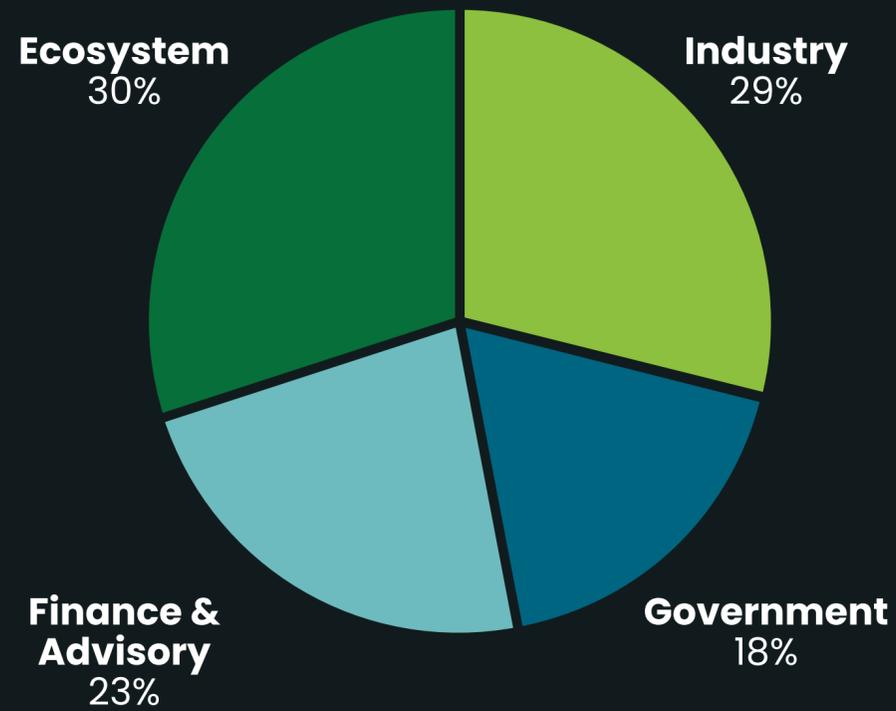
**22** Deploy24 supporters



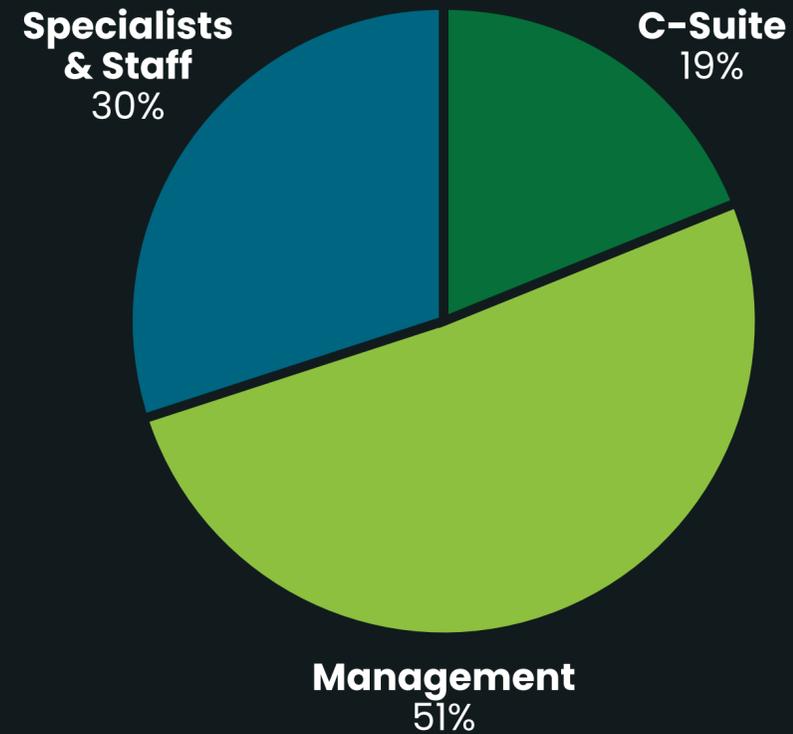
Scheduled meetings

\* Deploy Dialogues are a continuing series of closed-door, professionally-facilitated workshops designed to solicit private sector input into DOE's Pathways to Commercial Liftoff reports.

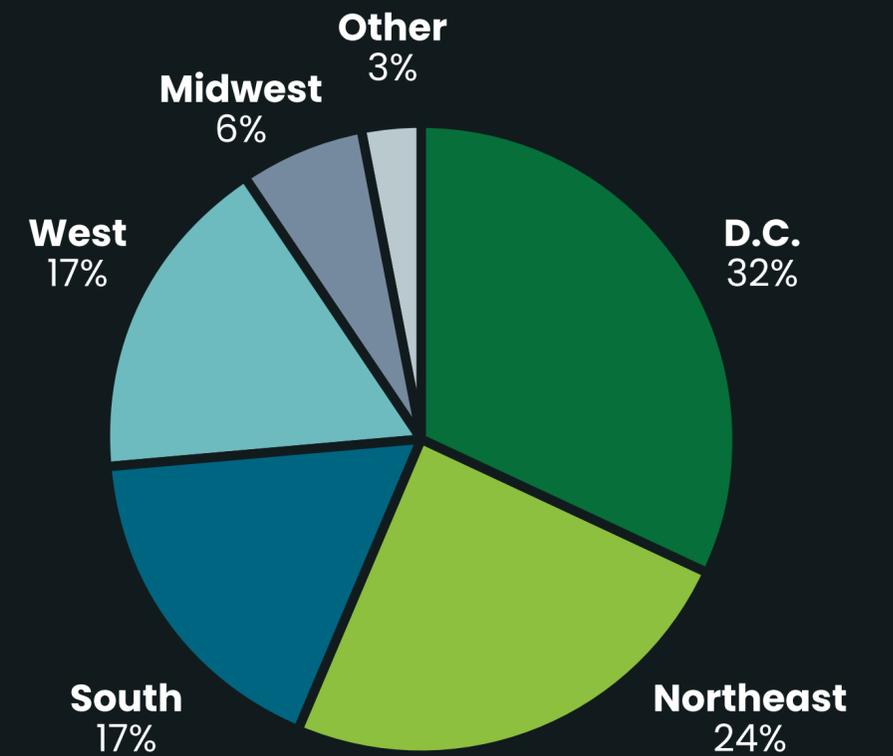
### Participation by organization type



### Participation by attendee seniority



### Participation by region



# PARTICIPATING GOVERNMENT ENTITIES



## U.S. DEPARTMENT OF ENERGY & NATIONAL LABS

ARPA-E	Office of Nuclear Energy
Bioenergy Technologies Office	Office of Policy
Federal Energy Management Program	Office of Public Affairs
Grid Deployment Office	Office of Technology Transitions
Industrial Efficiency & Decarbonization Office	Front Office
Loan Programs Office	Office of Undersecretary for Infrastructure
Office of Clean Energy Demonstrations	State & Community Energy Program
Office of Congressional and Intergovernmental Affairs	Joint Office of Energy and Transportation
Office of Electricity	Argonne National Laboratory
Office of Energy Efficiency & Renewable Energy	Idaho National Laboratory
Office of Fossil Energy & Carbon Management	Lawrence Berkeley National Lab
Office of Indian Energy	Oak Ridge National Laboratory
Office of International Affairs	Pacific Northwest National Laboratory
Office of Manufacturing & Energy Supply Chains	Sandia National Laboratories

## OTHER U.S. GOVERNMENT ENTITIES

Congress & Agencies	State & Local
House Committee on Energy and Commerce	California Public Utilities Commission
Federal Energy Regulatory Commission	Connecticut Public Utilities Regulatory Authority (CT PURA)
U.S. Department of Commerce	DriveOhio (Ohio DOT)
U.S. Department of Defense	Financial Oversight & Management Board for Puerto Rico
U.S. Department of Labor	Indiana Economic Development Corporation
U.S. Department of Treasury	Long Island Power Authority
U.S. Development Finance Corporation	Maine Governor's Energy Office
U.S. Environmental Protection Agency	Massachusetts Clean Energy Center
U.S. General Services Administration	Massachusetts Department of Transportation
U.S. National Science Foundation	Minnesota Climate Innovation Finance Authority
U.S. Trade & Development Agency	State of Minnesota, Department of Commerce
U.S. Department of Transportation	
White House	
	New Jersey Board of Public Utilities
	NYS Department of Public Service
	Philadelphia Energy Authority
	Rhode Island Office of Energy Resources
	City of Richmond, Virginia
	SC Nexus for Advanced Resilient Energy
	Tennessee Valley Authority
	Virginia Department of Energy
	Washington State Department of Commerce

# DEPLOY24 SPEAKERS (1 OF 3)



**Katherine Hamilton**  
Chair, 38 North Solutions

**Lesley Hunter**  
SVP Policy and Engagement, ACORE

**Liz Shuler**  
President, AFL-CIO

**Cheri Smith**  
CEO/Deputy to Senior Advisor,  
Alliance for Tribal Clean Energy

**Priscilla Pazmino-Vitela**  
Regional Head of Natural Resources  
- Hub Americas, Allianz Commercial

**Dan Gross Director**  
Climate Pledge Fund, Amazon

**Mark Fowler**  
Senior Director, Government  
Relations, Ameresco

**Abigail Ball**  
Executive Director,  
American Compass

**Jon Hunter**  
Senior Director, Healthy Air Solutions,  
American Lung Association

**Stephan Feilhauer**  
Partner, Antin Infrastructure

**Austin Counts**  
Southwest Virginia Solar &  
Electrification Projects Manager,  
Appalachian Voices

**Angelina Galiteva**  
CEO, ARCHES

**David Skillman**  
Managing Director, Arnold &  
Porter LLP

**Nicole Kelner**  
Founder, Arts & Climate Change

**Ignacio Estella**  
SVP of Innovation, DEI, Avangrid

**Mark Waclawiak**  
Senior Manager - Operational  
Performance, Avangrid

**Brandon Leslie**  
VP, Barton Malow

**Aaron Oaks**  
Project Execution Owner, BASF

**Shawn Bennett**  
Energy and Resilience Director,  
Battelle

**Noel Bakhtian**  
Director of Tech Acceleration,  
Bezos Earth Fund

**Sir Michael Stanley Whittingham**  
Professor and Director,  
Binghamton University

**Tanya Das**  
Director, Energy Program,  
Bipartisan Policy Center

**Doug Bloch**  
Principal and Strategic Advisor,  
Bloch Strategies

**Kwasi Ampofo**  
Head of Metals and Mining,  
Bloomberg New Energy Finance

**Tracy Alloway**  
Host, Bloomberg, Odd Lots

**Joe Weisenthal**  
Host, Bloomberg, Odd Lots

**Robert Kang**  
CEO, Blue Whale Materials

**Griffin Hewitt**  
Business Development Manager,  
BoxPower

**Adria Wilson**  
Director, Zero-Carbon Innovation  
Policy, US Policy and Advocacy,  
Breakthrough Energy

**James Lindsay**  
VP, Impact, Builders Vision

**Steven Brisley**  
VP, Marketing & Strategy,  
Camus Energy

**Colin McCormick**  
Chief Innovation Officer,  
Carbon Direct

**Noah Gordon**  
Director, Sustainability & Climate,  
Carnegie Endowment for  
International Peace

**Costa Samaras**  
Professor, Carnegie Mellon Scott  
Institute for Energy Innovation

**Travis Fisher**  
Director, Cato Institute

**Nancy Loewe**  
CFO, CellLink

**Andre De Fontaine**  
Senior Director, Center for Green  
Market Activation

**Yakov Feygin**  
Director of Public Finance, Center for  
Public Enterprise

**Daniel Radomski**  
CEO, Centropolis Accelerator

**Phillip Swanson**  
Director of Industrial  
Decarbonization,  
Centropolis Accelerator

**Ben Tabor**  
Director, Ceres

**Seabron Adamson**  
VP, Energy, Charles River  
& Associates

**Heather Reams**  
President, Citizens for Responsible  
Energy Solutions (CRES)

**Colleen Moss**  
Managing Director, ClearPath

**Patrick Bloom**  
SVP, Cleveland-Cliffs Inc.

**Catrina Rorke**  
SVP, Policy and Research, Climate  
Leadership Council

**Beth Bafford**  
Director, Climate United Fund

**Eli Hopson**  
Director, Coalition for Green Capital

**Mike Kramer**  
VP, Data Economy Strategy,  
Constellation Energy

**Kwame Awuah-Offei**  
Regional Innovation Officer,  
Critical Minerals and Materials for  
Advanced Energy (CM2AE) Hub

**Sara Axelrod**  
Head of External Affairs, Crusoe

**Alfred Johnson**  
CEO, Crux Climate

**Marissa Gillett**  
Chair, CT PURA

**Scott Himmelberger**  
Director, Decarbonization  
Partners BlackRock

**Edwina Manyeh**  
Tech Hubs Deputy Director,  
Department of Commerce, EDA

**Jasjit Singh**  
Executive Director, Department of  
Commerce, SelectUSA

**Brendan Owens**  
Assistant Secretary of Defense  
for Energy, Installations, and  
Environment, Department  
of Defense

**Anna Shpitsberg**  
Chief Climate Officer, DFC

**Dr. Vanessa Chan**  
Chief Commercialization Officer  
and Director, Office of Technology  
Transitions, DOE

**David Crane**  
Undersecretary for  
Infrastructure, DOE

**Christopher Davis**  
Chief of Staff, DOE

**Jennifer Granholm**  
Secretary, DOE

**David Turk**  
Deputy Secretary, DOE

**Gregg Cremer**  
Tech-to-Market Advisor,  
DOE ARPA-E

**Michael Berube**  
Deputy Assistant Secretary for  
Sustainable Transportation,  
DOE Energy Efficiency and  
Renewable Energy

**Kendra Kostek**  
Program Manager, DOE Energy  
Efficiency and Renewable Energy

**Paul Majsztik**  
Program Manager, DOE Energy  
Efficiency and Renewable Energy

**Jeff Marootian**  
Deputy Assistant Secretary,  
DOE Energy Efficiency and  
Renewable Energy

**Alejandro Moreno**  
Associate Principal Deputy Assistant  
Secretary, DOE Energy Efficiency and  
Renewable Energy

**Dr. Valerie Sarisky-Reed**  
Director, DOE Energy Efficiency  
and Renewable Energy, Bioenergy  
Technologies Office

**Anna Siefken**  
Deputy Director, DOE Federal Energy  
Management Program

**Mary Sotos**  
Director, DOE Federal Energy  
Management Program

**Noah Deich**  
Senior Advisor, DOE Fossil Energy  
and Carbon Management

**Ryan Peay**  
Deputy Assistant Secretary,  
DOE Fossil Energy and Carbon  
Management

**Rory Jacobson**  
Division Director for CO2 Removal,  
DOE Fossil Energy and Carbon  
Management

**Maria Robinson**  
Director, DOE Grid  
Deployment Office

**Dylan Reed**  
Senior Advisor, External Affairs, DOE  
Grid Deployment Office

**Avi Shultz**  
Director, DOE Industrial Efficiency  
and Decarbonization Office

**Lauren Stowe**  
Director, DOE International Market  
Development

**Elizabeth Bellis Wolfe**  
Senior Consultant, DOE Loan  
Programs Office

**Chris Creed**  
CIO, DOE Loan Programs Office

**Jen Downing**  
Engagement Officer, DOE Loan  
Programs Office

**Charles Gertler**  
Senior Consultant, DOE Loan  
Programs Office

**Campbell Howe**  
Contracted Senior Advisor, DOE  
Loan Programs Office

**Tom Hucker**  
Senior Advisor, DOE Loan  
Programs Office

“Energy is the lifeblood  
of our society: the more  
affordable we can make  
it, the more robust our  
economy can become.”

**Rory Christian**  
Chair and CEO, New York Public Service Commission

# DEPLOY24 SPEAKERS (2 OF 3)



**Jatin Khanna**  
Outreach and Business Development, DOE Loan Programs Office

**Susan Kish**  
Senior Consultant, DOE Loan Programs Office

**Julie Kozeracki**  
Strategy Director, DOE Loan Programs Office

**Brad Markell**  
Consultant, DOE Loan Programs Office

**Michele Martin**  
Consultant, DOE Loan Programs Office

**Amy Peterson**  
General Engineer, DOE Loan Programs Office

**Chelsea Sexton**  
ATVM Loan Program Officer, DOE Loan Programs Office

**Jigar Shah**  
Director, DOE Loan Programs Office

**Todd Stribley**  
Director of Environmental Compliance, DOE Loan Programs Office

**Jonah Ury**  
Senior Consultant, DOE Loan Programs Office

**Suresh Vasan**  
Consultant, DOE Loan Programs Office

**Jonah Wagner**  
Senior Advisor to the Director, DOE Loan Programs Office

**Isaac Ward-Fineman**  
Offshore Wind Supply Chain Lead, DOE Loan Programs Office

**Louise White**  
Senior Consultant, DOE Loan Programs Office & Office of Technology Transitions

**Jen Lerch**  
Senior Advisor, DOE Loan Programs Office, Tribal Energy Finance Program

**Andrew Alcorta**  
Senior Advisor for Industrial Policy, DOE Manufacturing and Energy Supply Chains

**Justin Badlam**  
Advisor for Strategy & Policy, DOE Manufacturing and Energy Supply Chains

**Eli Bashevkin**  
Commercialization Risk Manager, DOE Office of Clean Energy Demonstrations

**Leslie Biddle**  
Deputy Undersecretary for Infrastructure, DOE Office of Clean Energy Demonstrations

**Andrew Bray**  
Strategy & Program Development, DOE Office of Clean Energy Demonstrations

**Maressa Brennan**  
Principal Market Analyst, DOE Office of Clean Energy Demonstrations

**Kelly Cummins**  
Acting Director, DOE Office of Clean Energy Demonstrations

**Crystal Farmer**  
H2Hubs Lead, DOE Office of Clean Energy Demonstrations

**Emily Goldfield**  
Portfolio Strategy Advisor, DOE Office of Clean Energy Demonstrations

**Kate Scott**  
Principal Strategist – Industrials, DOE Office of Clean Energy Demonstrations

**Madeline Puffenbarger**  
ORISE Policy Fellow, DOE Office of Energy Jobs

**Grant Bromhal**  
Senior Science Advisor, DOE Office of Fossil Energy and Carbon Management

**Isabel Munilla**  
Deputy Assistant Secretary for Multilateral Engagement, Climate and Market Development, DOE Office of International Affairs

**Rian Bahran**  
Deputy Assistant Secretary, DOE Office of Nuclear Energy

**Paul Donohoo-Vallett**  
Acting Director of Deployment and Infrastructure, DOE Office of Policy

**Carla Frisch**  
Director, DOE Office of Policy

**Elke Hodson**  
Deputy Director for Technology Policy Office, DOE Office of Policy

**Betony Jones**  
Director for Energy Jobs, DOE Office of Policy

**Pranava Raparla**  
Director of Deployment and Infrastructure, DOE Office of Policy

**Stephen Hendrickson**  
Director of Market Analysis, DOE Office of Technology Transitions

**Laura Prestia**  
Associate Director of Lab Commercialization Programs, DOE Office of Technology Transitions

**Mary McManmon**  
Associate Director of External Programs, DOE Office of Technology Transitions

**Brian Anderson**  
Senior Advisor, DOE Office of Under Secretary for Infrastructure

**Sarah Friedman**  
Senior Advisor, DOE Office of Under Secretary for Infrastructure

**Elaine Hsieh**  
Senior Advisor, DOE Office of Under Secretary for Infrastructure

**Dr. Ariel Marshall**  
Chief of Staff, DOE Office of Under Secretary for Science and Innovation

**Keishaa Austin**  
Principal Deputy Director, DOE State and Community Energy Programs

**Santos Ramos**  
Project Manager, DriveOhio, Ohio Department of Transportation

**Lon Huber**  
SVP, Duke Energy

**Sandeep Bangaru**  
VP, Circular Platform, Eastman Chemicals

**Steve Comello**  
SVP, Strategic Initiatives, EFI Foundation

**Avra van der Zee**  
COO, Elemental Impact

**Ross McKenzie**  
Chief of Staff and SVP Corporate Affairs and Business Development, Elimini

**Arnab Datta**  
MD, Policy Implementation, Employ America

**Cynthia Hansen**  
EVP and President of Gas Transmission and Midstream, Enbridge

**Katie Auth**  
Policy Director, Energy for Growth

**Seth Frader-Thompson**  
President, EnergyHub

**Jeff Simpson**  
Director of Government Services, Tribal One, ENTEK/ Tribal One

**Nathan Kroeker**  
CFO, Eos Energy Enterprises

**Ashley Allen Jones**  
Senior Finance Advisor, EPA

**Toby Rice**  
President and CEO, EQT Corporation

**Francine Sullivan**  
Chief Legal Officer and General Counsel, EVgo

**Remi Loiseau**  
U.S. Lithium Manager, ExxonMobil

**Tim Latimer**  
Co-Founder and CEO, Fervo

**Fausto J Hernández**  
Infrastructure Manager, Financial Oversight & Management Board for Puerto Rico

**Frank Wolak**  
President and CEO, Fuel Cell & Hydrogen Energy Association

**Jasper Jung**  
Executive Director, Global Strategic Initiatives, General Motors

**Leke Agiri**  
EVP, Gevo

**Pat Gruber**  
CEO, Gevo

**Salim Samaha**  
Partner and Head of Global Energy, Global Infrastructure Partners

**Briana Kobor**  
Head of Energy Market Innovation, Google

**Lucia Tian**  
Head of Clean Energy and Decarbonization Technologies, Google

**Michael Goggin**  
VP, Grid Strategies

**Michael Skelly**  
CEO, Grid United

**Brian Fitzsimons**  
CEO, GridUnity

**Karen Wayland**  
CEO, GridWise Alliance

**Alex Kizer**  
CEO, H2DI

**Susana Moreira**  
Executive Director, H2Global

**Gregory Ronczka**  
VP, Carbon Transportation & Storage Development, Heidelberg Materials

**Neil Chatterjee**  
Senior Advisor for Global Regulatory Affairs, Hogan Lovells

**Rick Springman**  
President of Clean Energy Operations, Holtec

**Margaret Cook**  
Deputy Director, Climate Equity & Resilience, Houston Advanced Research Center

**Bryna Lipper**  
Chief Innovation Officer, Humboldt Area Foundation- CORE Hub

**Serge Abergel**  
US COO, Hydroquebec

**Minwoo Han**  
Senior Engineer, Hyundai

**Mark Baker**  
Executive Director, IBEW

**Sidd Bhat**  
Deputy Head North America, Infrastructure Debt, IFM Investors

**Ayesha Choudhury**  
Head of Capital Markets, Infinium

**Cindy Jia**  
Head of Sustainable Finance – Americas, ING

**Peter Colavito**  
Executive Director, Invest in Our Future

**James Calaway**  
Executive Chairman, Ioneer

**Paul Savage**  
Head of Business Development, IRG Erie

**Lisa Graham**  
Managing Director, J.P. Morgan

**Isaac Sine**  
Managing Director, J.P. Morgan

**Rama Variankaval**  
Global Head Corporate Advisory, J.P. Morgan

**Heather Zichal**  
Managing Director Sustainability Executive, J.P. Morgan

**Tushar Kumar**  
Partner, Just Climate

**Heidi Binko**  
CEO, Just Transition Fund

**Christina Hollenback**  
CEO, Justice Capital

**Aram Shumavon**  
CEO, Kevala

**Charlie Gailliot**  
Partner, Global Co-Head of Climate, KKR

# DEPLOY24 SPEAKERS (3 OF 3)



**Amir Orad**  
CEO, Kraken

**Dr. Jennifer Holmgren**  
Chairman and CEO, LanzaTech

**Reshma Singh**  
Program Director, Lawrence Berkley National Lab

**Ajay Kochhar**  
President, CEO, and Co-Founder, LiCycle

**Tim Crowley**  
VP, Government and External Affairs, Lithium Americas

**Rhys Marsh**  
Portfolio Manager, LOIM

**Ian Dickinson**  
President and CEO, Longpath Technologies

**Jeff Whal**  
Vice President of Customer Programs, LUMA

**Adam Barth**  
Senior Partner, McKinsey

**Dirk Blum**  
Senior Client Development Advisor, McKinsey

**Chad Cramer**  
Associate Partner, McKinsey

**Adam Penque**  
VP Business Development, Meridiam

**Aric Glasser**  
COO, Michigan Potash Company

**Pete Wyckoff**  
Deputy Commissioner for Energy, Minnesota Department of Commerce

**Dr. John Parsons**  
Deputy Director for Research, MIT Center for Energy and Environmental Policy Research

**Vivas Kumar**  
CEO, Mitra Chem

**Tricia Breeger**  
President & CEO, Mitsubishi Electric

**Rob Hanson**  
CEO, Monolith

**Matt Sloustcher**  
SVP, Communications & Policy, MP Materials

**Roman Beilhack**  
Head of New and Green Technologies, Munich RE

**Trevor Falk**  
Special Assistant to the President, Energy Policy, NABTU

**Stephanie Crawford**  
Regulatory Affairs Director, National Rural Electric Cooperative Association

**Everett Anderson**  
VP Advanced Product Development, Nel Hydrogen

**Tom Dickson**  
CEO, New Energy Risk

**Rory Christian**  
Chair, New York Public Commission

**Kimberly Johnston**  
Founder and CEO, NextGen Energy Partners

**Benton Arnett**  
Senior Director, Markets and Policy, Nuclear Energy Institute

**Ryan Edwards**  
Director of Climate Policy, Oxy

**James McWalter**  
CEO, Paces

**David Bromberg**  
CEO, Pearl Street

**Barbara Arnold**  
Chair of Mining Engineering, Penn State (EPA, DEP Remediation Requirements)

**Patti Poppe**  
CEO, PG&E Corporation

**Emily Schapira**  
President and CEO, Philidelpha Authority

**Andy Marsh**  
President and CEO, Plug Power

**Tim Mayopoulos**  
Director, Power Forward Communities

**Jesse Jenkins**  
Assistant Professor, Princeton University

**Michael Dunn**  
Senior Manager of Market Intelligence and Policy Analysis, Qcells

**Michael Trent**  
VP of Member Services & Public Relations, Randolph Electric Membership Corporation

**RJ Scaringe**  
CEO, Rivian

**Leia Guccione**  
Managing Director, RMI

**Todd Tucker**  
Director, Roosevelt Institute

**Sandy Slayton**  
Vice President, Environmental, Rye Development

**Joseph McNeil**  
CEO, SAGE Development Authority

**Emily Fisher**  
Chief Strategy Officer, SEPA

**Alex Fitzsimmons**  
Head of Government Affairs, Sila Nanotechnologies

**Lora Anguay**  
Chief Zero Carbon Officer, SMUD

**Evelyn Butler**  
VP, Technical Services, Solar Energy Industries Association

**Allison Archambault**  
Board Member, Solar United Neighbors

**Philip Moore**  
Senior Federal Affairs Director, Southwest Airlines

**Rob Day**  
Co-Founder, Spring Lane Capital

**Todd Lapenna**  
Partner, Stepstone Group

**Dr. Jane Flegal**  
Market Development & Policy Lead, Stripe Climate and Frontier

**Leah Ellis**  
CEO, Sublime Systems

**Meghan Nutting**  
EVP, Government and Regulatory Affairs, Sunnova

**Tanya Rucosky**  
Community Resilience Partnership Coordinator, Sunrise County Economic Council

**Josh Cohen**  
Head of Policy, SWITCH

**Leila Banijamali**  
CEO, Symbium

**Suman Khatiwada**  
CTO, Syzygy Plasmonics

**Todd Malan**  
Chief External Affairs Officer & Head of Climate Strategy, Talon Metals

**Jamie Liang**  
CEO, TerraVolta

**Jonathan Garfinkel**  
Partner, TPG RISE

**Nat Sahlstrom**  
Chief Energy Officer, Tract

**Brian Kubeck**  
Chairman of the Board, Transmission Developers Inc.

**Kim Okafor**  
General Manager, Zero Emissions Solutions, Trillium

**Cassidy Castleman**  
Director of Marketing, TS Conductor

**Julie Su**  
Acting Secretary, Department of Labor

**Kirsten Stasio**  
Acting Executive Director, U.S. Green Bank 50

**Ethan Zindler**  
Climate Counselor to the Secretary, U.S. Treasury

**Priyanka Mohanty**  
Executive Director, UAW CMGE

**Rohini Sengupta**  
Director of Environmental Sustainability, United Airlines

**Emil Ramirez**  
VP, Administration, United Steelworkers

**Glenn Davis**  
Director, Virginia Department of Energy

**Carl Atkinson**  
VP Sales and Marketing, Voith Hydro

**Virginia Hewitt**  
Business Development, Voltera

**Kate McAteer**  
Vice Chancellor, Washington State University Tri-Cities

**Julia Selker**  
Director, WATT Coalition

**May Jaramillo**  
Head of Energy Transition, Wells Fargo

**James Hove**  
Deputy Director for Supply Chains Decarbonization, White House, Council on Environmental Quality

**John Podesta**  
Senior Advisor to the President on Clean Energy Innovation and Implementation, White House

**Maddi Reeves**  
Deputy Chief Sustainability Officer, White House, Council on Environmental Quality

**Ali Zaidi**  
Assistant to the President, White House, Climate Policy Office

**Andrew Mayock**  
Federal Chief Sustainability Officer, White House, Council on Environmental Quality

**Kelly Sanders**  
Assistant Director, White House, Office of Science and Technology Policy

**Todd Beers**  
COO, Winner Water Services

**Gene Gebolys**  
CEO, World Energy

**Justin Tomljanovich**  
SVP, Utility Finance and Corporate Development, Xcel Energy

**Rachel Payne**  
Managing Director of Business Innovation, Climate and Policy, X-The Moonshot Factory

**Albert Gore**  
Executive Director, Zero Emission Transportation Association

**Val Miftakhov**  
Founder & CEO, ZeroAvia

**Patti Poppe**  
CEO, PG&E Corporation

“This is the era of Industrial Engineers — this is our grand awakening as we think about how to optimize the grid.”

# Mapping the clean energy transformation across the U.S.



“What a blast seeing so many old friends, and making new ones, at #Deploy24 this year! The energy and enthusiasm around clean energy projects, innovations and reshoring of manufacturing was off the charts.”

Senior Managing Director, Energy Advisory

## DEPLOY24 SUPPORTERS

The following companies share our mission to accelerate the deployment of critical energy and decarbonization technologies. Without their generous support, Deploy24 would not have been possible. Thank you!



### TERA

- Breakthrough Energy
- BuildUS
- The Business Council for Sustainable Energy
- Elimini
- FCHEA - Fuel Cell and Hydrogen Energy Association
- Hydro-Quebec Energy Services U.S.
- ING
- McKinsey & Company
- Wells Fargo

### GIGA

- Invest in Our Future
- JPMorganChase
- Nuclear Energy Institute (NEI)

### MEGA

- Center for Public Enterprise
- Employ America
- Halliburton
- SLB New Energy



### KILO

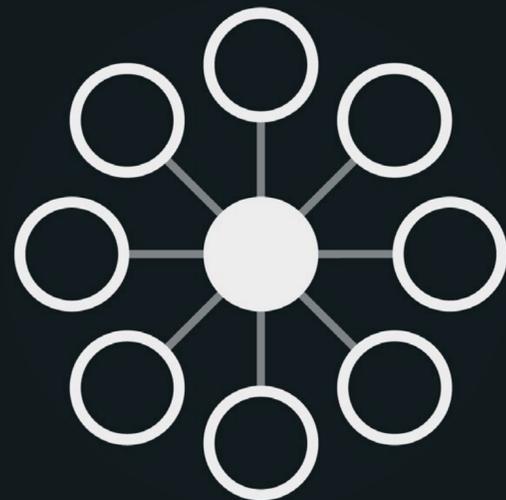
- Akin
- Cellink
- Dentons
- Energy Transition Finance
- General Motors (GM)
- Just Climate
- UBQ Materials

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Winning ideas.  
Cross-cutting themes.  
Star speakers.

In four plenary sessions, we came together to hear compelling insights from industry, government, and community experts engaged in accelerating deployment of clean energy infrastructure. Formats included rousing keynotes, engrossing fireside chats, and pitch-perfect “Liftoff” talks based on the [Department of Energy’s Liftoff Reports](#). We even enjoyed a [live recording of Odd Lots](#), the podcast by Bloomberg!

You can watch recordings of all the plenary sessions [here](#).



## 1 PROGRESS

“Since President Biden took office, the private sector has announced more than \$1 trillion in new investments. Nearly half of that is in clean energy.”

**John Podesta**  
Senior Advisor to the President for International Climate Policy

## 2 PLANNING

“When you’re working with an established economy... they want to optimize; they want to reduce costs; they want to reduce employees. When you’re doing something new, that’s when you’re creating jobs, that’s when you’re creating opportunity.”

**Dr. Jennifer Holmgren**  
Chairman and CEO, LanzaTech

## 3 MOMENTUM

“[The AI race] is going to totally upend energy policy and the conventional wisdom that Republicans are for fossil fuels and Democrats are for green energy.”

**Neil Chatterjee**  
Senior Advisor, Hogan Lovells

## 4 WINNING

“This country has everything going for it from an energy perspective. We’ve got all the wind, all the solar, a hundred nuclear reactors... And then we’ve got the best democracy in the world, and we’ve got all the entrepreneurs and all the skilled labor.”

**Rob Hanson**  
CEO, Monolith

# DEPLOY24

## Odd Lots

Bloomberg

“In the U.S. today, geothermal only accounts for 3 GW of power, or less than 1% of our grid, but the resource potential is massive... there are pathways to get up to 750 GW by midcentury.”

Tim Latimer  
CEO, Fervo Energy

[Watch the video](#)  
[Listen to the episode](#)

## The state of play for critical emerging technologies

Liftoff Sparks are 10-minute keynotes by architects of the Department of Energy's [Pathways to Commercial Liftoff reports](#). Dr. Vanessa Chan (next page) kicked us off with an overview of how new technologies get adopted and deployed at scale. Then, the lead authors of the Liftoff reports on [Next-Generation Geothermal Power](#), [Sustainable Aviation Fuel](#), and [Innovative Grid Deployment](#) gave us the lowdown on why and how we should commercialize these specific technologies.



“When we get to liftoff for advanced grid solutions, we’ll have a grid that that can support continued transformative economic development projects.”

**Louise White**

Senior Advisor (Contractor), Loan Programs Office  
U.S. Department of Energy

[Watch the video](#) | [Read the report](#)



“We have the feedstock, the infrastructure, and the workforce to meaningfully scale the SAF industry in the United States by 2030.”

**Campbell Howe**

Senior Advisor (Contractor), Loan Programs Office  
U.S. Department of Energy

[Watch the video](#) | [Read the report](#)



“We are sitting on a continent-wide goldmine.”

**Dr. Charles Gertler**

Senior Advisor (Contractor),  
Loan Programs Office  
U.S. Department of Energy

[Watch the video](#) | [Read the report](#)



“For every dollar that the Department of Energy has put out the door we’re seeing \$6 from the private sector coming to the table.”

**Dr. Vanessa Chan**

Chief Commercialization Officer &  
Director of the Office of Technology Transitions  
U.S. Department of Energy

[Watch the video](#)

“Any financier is gonna do their own due diligence. But I think it’s fair to say, if the Department of Energy has... provided a grant... or a loan to a company, they’ve been subject to extensive due diligence, and we believe the technology that we’re financing can scale and the projects can be commercially viable... You should take great confidence in the fact that these projects are in the DOE portfolio.”

**David Crane**

Under Secretary for Infrastructure  
U.S. Department of Energy

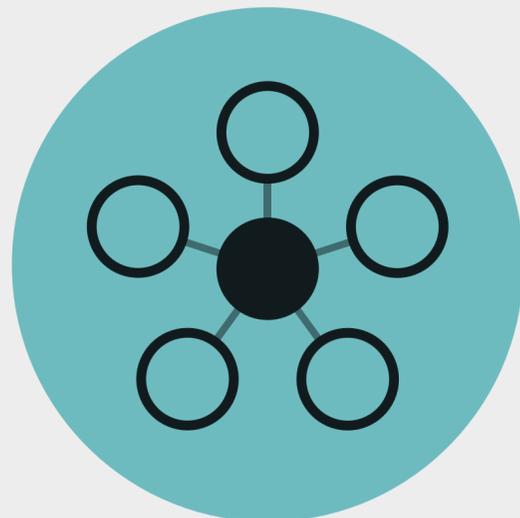
[Watch the video](#)

Open knowledge sharing and problem solving to accelerate deployment

**36** in-depth conversations focused on specific clean energy topics

**142** Circuit speakers

**70** attendees on average in each session



## Industrial Strategy

- Assessing America’s (New) Clean Energy Industrial Strategy
- Power of the Purse: USG Procurement Moves Markets
- Workforce Strategies for American Competitiveness
- 2025 and Beyond: Where Should America Invest to Win?
- Accelerating the Commercialization Flywheel
- Aligning Energy, Trade, and Development Finance

## Transport & Industry

- Clearing for Takeoff: Finding SAF Offtake and Scaling the SAF Economy
- Convenient, Reliable, and Everywhere: Building a National Charging Network
- Shoring up Demand for Clean Hydrogen

## Investment & Finance

- Capital Stacks for Scale: Financing Demonstration and Early Deployment Projects
- De-risk, Deploy, Deliver: The Philanthropic Playbook for Energy Innovation
- The Future of Carbon Removal Markets
- DOE Debt to Catalyze Scale Up
- National Clean Energy Investment Fund to reshape the landscape
- Non-Dilutive DOE Capital as a Catalyst for Scale
- Striking Deals to Transfer IRA Tax Credits
- Insuring Energy Transformation: Overcoming the “Squid Games” Challenge

- Privately Financing Big Infrastructure: Lessons Learned and What’s Next
- The Evolving Role of Growth Equity in the Climate Capital Stack

## Power & Grid

- Applying AI to Enable Clean Energy Interconnection
- Bringing Innovation into the Heart of the Grid
- How can Load Growth Supercharge Energy Transformation?
- Near-Term Power Solutions for Load Growth: The Next Five Years
- One Year of VPPs: How Puerto Rico Can Inform Resilience and Power Everywhere

## Supply Chains

- Attracting Foreign Direct Investment into U.S. Supply Chains
- Building a Resilient American Battery Supply Chain
- Putting the T&D Pieces Together: Will We Have What We Need for T&D Deployment When We Need It?
- USA Sourced Critical Materials: From Byproducts to Coproducts

## Project Development

- Labor Partnerships in Construction: De-Risk Your Project
- The Future of Siting and Permitting
- Reducing Risk and Elevating Community, Tribal, and Labor Partnerships

## State, Tribal & Community Perspectives

- Clean Energy in Rural and Remote Communities
- Innovation Clusters with EDA, NSF, and DOE
- Regional Clusters as a Blueprint for Growth
- Developing Energy Projects in Partnership with Native Communities
- Powering Progress through Partnerships: The Role of State and Local Partners in Advancing Energy Developments

# CIRCUITS: INSIGHTS

“There’s still a capital formation gap for many projects that are capital intensive. We have had to crowd in many different types of investors to fill that gap. Government incentives can help mitigate some of these risks to help bring in additional private sector capital.”

**Jamie Liang**  
President and CEO, TerraVolta Resources



“Labor engagement is a critical part of the process, and it is leading to real project success. Don’t give up on engaging across groups. Relationships take time.”

**Kate McAteer**  
Vice Chancellor for Academic and Student Affairs, WSU Tri-Cities

“When you’re investing in clean tech, you’re investing in the future. You need to play the long-game and investors need to be making big bets to bring solutions forward to make these climate tech solutions forward.”

**Rachel Payne**  
Managing Director of Business Innovation, Climate and Policy X (Alphabet’s Moonshot Factory)



“We are never going to spend our way to victory. You can de-risk FOAK projects with targeted capital but if you don’t have the right industrial policies in place then you cannot make these companies commercially competitive.”

**Alex Fitzsimmons**  
Head of Government Affairs, Sila Nanotechnologies



“We need to think about industrial strategy through the lens of decades of globalization. We have been enthralled by the idea that we should produce things where it is the cheapest. On a bipartisan basis we agree that that hasn’t really worked. Now we are thinking about our national interest. We want a resilient industrial base in the U.S. If we want a robust economy that serves the American people, we need to have good jobs here like manufacturing jobs.”

**Abigail Ball**  
Executive Director, American Compass

# DEPLOY DIALOGUES

## Problem solving on the path forward for clean energy

Deploy Dialogues are a continuing series of closed-door, professionally-facilitated workshops designed to solicit private sector input into [DOE's Pathways to Commercial Liftoff reports](#).



### Clean Firm Power

- Advanced Nuclear
- Geothermal Power
- Long Duration Energy Storage



### Grid Infrastructure

- Transmission Grid
- Distribution Grid
- Virtual Power Plants
- Geothermal Heating & Cooling
- Repowering Energy Infrastructure
- CO<sub>2</sub> & H<sub>2</sub> Infrastructure



### Clean Energy Supply Chains & Industrial Decarbonization

- Domestic Lithium Supply Chain
- Clean Hydrogen
- Sustainable Aviation Fuel
- Cement Decarbonization
- Direct Air Capture

“Really substantive content in virtually all the sessions I attended. And then all the other activities going on — Office Hours, Dialogues (I attended several), Liftoff talks, stage events and more. I needed three of me!”

Board Member,  
Public Power Joint Operating Agency

# DEPLOY DIALOGUES: SELECTED TAKEAWAYS

## Repowering Energy Infrastructure

Redeveloping existing energy infrastructure, particularly old coal power plants, may be more realistic for the U.S. now than any time in recent history. The technology needed to do so requires proof-of-concept and field demonstrations to promote wider use. Long-term commitments for offtake and expedited interconnection review for uprates could dramatically accelerate uptake.



## Long Duration Energy Storage

The U.S. LDES industry can learn lessons on commercialization from other industries like LNG, hydropower, and others. There is a need to integrate LDES into long-term resource planning, and to raise awareness of the LDES value proposition and use cases as a provider of reliability.



## Advanced Nuclear

The U.S. nuclear industry is still not well understood among important stakeholders and the general public. Developing metrics around the value of uprating existing nuclear would be beneficial, as would helping industry understand what resources are available to them (e.g., loans, tax credits) and how to use them.

## CO<sub>2</sub> & H<sub>2</sub> Infrastructure

New technologies are ready to be deployed, but resistance remains at the local and community level. Early community engagement and education, tailored to the needs of different communities, can help mitigate. Sharing tangible benefits and success stories can help deter misinformation.

## Distribution Grid

Utility industry can focus on simple, low-cost data infrastructure, and encourage the use of AI for interpolation. The industry would benefit from broader integration of data, including cross-training engineers in data management and visa versa.

## Direct Air Capture

The U.S. DAC industry will continue to need policy support to scale, including tax credits and compliance markets. Multi-stakeholder collaboration and business model clarity will be crucial to the speed of deployment and keeping costs down. Technology developed in the next five years will help attract investment and propel deployment.

# THE EXCHANGE

## The heart of Deploy24, where projects came to life.

A new part of this year's program, The Exchange was a dedicated place to interact with, learn from, and network with the project teams, technology companies, investors, and U.S. government offices that are accelerating the deployment of critical energy and decarbonization solutions across the United States.

**The Exchange** was made up of two parts: **The Atrium** and **DOE Office Hours**.

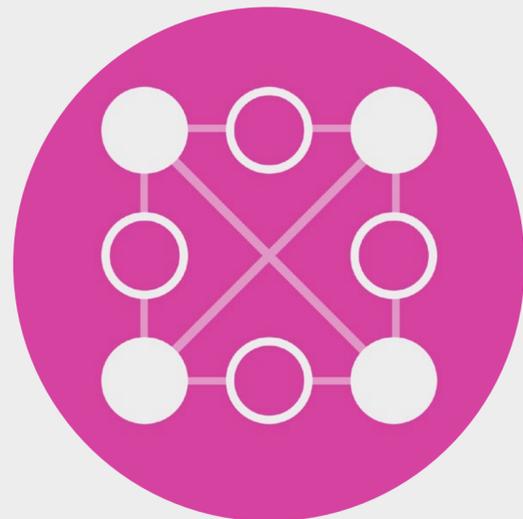


**37**  
featured  
companies

**17**  
Federal  
Office kiosks

**45**  
panels and  
presentations

**22**  
Deploy24  
supporters



## THE ATRIUM @ THE EXCHANGE

The Atrium featured **37 organizations** supported by various DOE offices over the last two years, of which **30** showcased solutions in numerous critical energy sectors across three different "Tech Houses." Meanwhile, **28 presentations and panels** on the **East** and **West** Stages offered on-the-ground insights and lessons learned from DOE Awardees, Deploy24 supporters and industry leaders deploying clean energy infrastructure projects across the U.S. The space also included comfortable seating areas for Deploy24 supporters to relax and network.

## DOE OFFICE HOURS @ THE EXCHANGE

DOE Office Hours was the front porch where Deploy24 attendees could meet staff from offices across the Department of Energy and wider Federal government. Federal staff took hundreds of meetings over the two days, answered questions, and highlighted ambitious initiatives to accelerate clean energy deployment in **17 presentations** given on the **North Stage**.



RESERVED FOR  
The Business Council  
for Sustainable Energy

TECH HOUSE  
Transition

Cellink Corporation

"I just wanted to share that I've had made more progress in an hour and a half in The Exchange, talking to different DOE offices, than I did in the previous 12 months. What a start!"

President & CEO, Utility Services Company

# TECH HOUSES @ THE EXCHANGE

Featured companies that had received Department of Energy support were organized into three **Tech Houses** according to their sector. Each company had a kiosk where they could showcase and demonstrate their groundbreaking technology, project, or service.



## Clean Transportation & Grid



- |                           |  |
|---------------------------|--|
| American Lung Association | Li-Cycle                                 |
| Aspen Aerogels            | LS GreenLink USA                         |
| BoxPower                  | Randolph Electric Membership Corporation |
| Cellink Corporation       | Switched Source                          |
| EVgo                      | TS Conductor                             |
| ENTEK/Tribal One          | United Power                             |
| Gevo                      |  |
| Ioneer – Rhyolite Ridge   |  |



## Carbon Management & Industrial Decarbonization



- |  |  |
|--|--|
| Alpen High Performance Products          | John Cockerill                         |
| BASF                                     | LongPath Technologies                  |
| Centropolis Accelerator                  | Oxy USA                                |
| Heidelberg Materials                     | Pacific Northwest Hydrogen Association |
| IRG Erie (International Recycling Group) | Syzygy Plasmonics                      |
|  | ZymoChem                               |

## Electricity Generation & Storage



- |                                   |                      |
|-----------------------------------|----------------------|
| Eos Energy Enterprises            | Qcells               |
| Holtec Palisades                  | Rye Development      |
| Kairos Power                      | Swift Current Energy |
| Montana Renewables                | Voith Hydro          |
| Navajo Transitional EnergyCompany | West Biofuels        |
| NextGen Energy Partners           |                      |

A photograph of three people sitting on a white leather sofa in a bright, modern office or lounge setting. On the left, a woman with curly hair in a green blazer is looking towards the center. In the middle, a man in a pink shirt and black vest is holding a coffee cup and looking at the woman on the right. On the right, a woman in a blue blazer is smiling and looking back at the man. She is also holding a coffee cup and has a lanyard with a badge around her neck. The background features large windows, indoor plants, and other people in the distance.

“The ambition and execution shown by the U.S. Department of Energy is far bigger than anything we have seen in the UK or Europe, and with a clear and concise strategy underpinning everything they’re doing.”

CEO, Global Clean Fuels Company



## THE WEST STAGE • DEEP DIVES

The West Stage hosted a series of **seven 30-minute panels** with private industry leaders and Deploy24 supporters. These conversations focused on representing the full spectrum of perspectives for one technology. Offtakers, producers, financial partners, and other ecosystem partners convened to share their experiences, discussing challenges, lessons learned, and concrete next steps to scaling various clean energy technologies. Hot topics included financing new nuclear, handling load growth from data centers, and securing offtake for sustainable aviation fuel.

[Check out the West Stage panel discussions here.](#)



## THE EAST STAGE • INSIGHTS

On the East Stage, **20 groundbreaking companies** whose projects have been supported by **nine different DOE offices** over the last couple of years presented case studies, best practices, and project updates in short, 15-minute slots. Industrial decarbonization, critical supply chains, and community benefits were recurring themes, and it was 'standing room only' during an intimate fireside chat with special guest DOE's Deputy Secretary David Turk, in conversation with Office of Policy Director Carla Frisch.

[Check out the East Stage program and slide decks here.](#)

# DOE OFFICE HOURS

Hundreds of Deploy24 attendees took advantage of the chance to meet Department of Energy staff in person and find out more about our private sector-led, government-enabled approach. Other Federal agencies involved in the clean energy transition also came out in full force. Below is a list of participating offices.

## Department of Energy

- Advanced Research Projects Agency-Energy
- Federal Energy Management Program
- Grid Deployment Office
- Joint Office of Energy & Transportation
- Loan Programs Office
- National Labs
- Office of Clean Energy Demonstrations
- Office of Energy Efficiency & Renewable Energy
- Office of Energy Jobs
- Office of Fossil Energy & Carbon Management
- Office of Nuclear Energy
- States & Communities

## Other Federal Entities

- Department of Defense Office of Strategic Capital
- Energy Communities Interagency Working Group
- General Services Administration
- SelectUSA
- U.S. Treasury



## THE NORTH STAGE DOE SPARKS

On the North Stage, Department of Energy speakers from **17 different offices** talked about a variety of topics, including navigating NEPA, community benefits planning, and the Department’s clean energy industrial strategy. The Loan Programs Office also launched the Better Borrower Program, designed to encourage deeper engagement with communities and labor issues for more successful projects.

[Check out the North Stage program and slide decks here.](#)



“The chance to engage directly with DOE staff was phenomenal. Info Desk was quite effective at setting up meetings for me. I was able to chat with numerous staff and they were all eager to help.”

Industry Leader



## THANK YOU

“Sometimes, when you’re in the middle of history, it’s hard to tell, because you’re in the middle of it. And it’s not just us [at the Department of Energy] that have been making history – although we have – it’s also all of you, and I embrace all of you as history makers.”

Jennifer Granholm  
U.S. Secretary of Energy



[DeployTogether.com](https://DeployTogether.com)

Deploy24 aims to accelerate deployment and investment in clean energy technologies to advance the nation's competitiveness, security, and decarbonization goals while creating good jobs and outcomes that benefit all Americans.

Want to find out more about the Department of Energy's cross-cutting efforts to accelerate clean energy technologies? Read the Liftoff reports here: [liftoff.energy.gov](https://liftoff.energy.gov)

DEPLOY24 WAS HOSTED BY

U.S. Department of  
**ENERGY**

U.S. Department of  
**ENERGY**

Office of the Under Secretary  
for Infrastructure

U.S. Department of  
**ENERGY**

Loan Programs Office