



OCED
Office of Clean Energy Demonstrations

THE OFFICE OF CLEAN ENERGY DEMONSTRATIONS



**Clean Energy Demonstration Program
on Current and Former Mine Land
Capacity Building for Energy Assets**
Tiffany Mayville, Stakeholder Engagement Specialist
Office of Clean Energy Demonstrations
U.S. Department of Energy

November 14, 2024

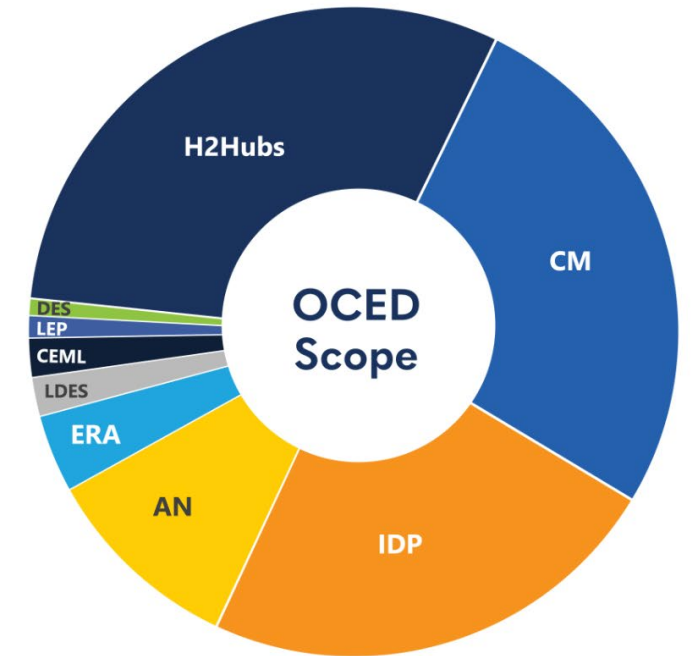
Office of Clean Energy Demonstrations (OCED)

OCED Mission

Deliver clean energy technology **demonstration projects at scale** in partnership with the **private sector** to **accelerate deployment, market adoption, and the equitable transition** to a decarbonized energy system.”

OCED Scope

- Regional Clean Hydrogen Hubs (H2Hubs) \$8 billion
- Carbon Management (CM) Regional Direct Air Capture Hubs, Carbon-Capture Demonstration Projects Program, Carbon Capture Large-Scale Pilot Projects Program \$7 billion
- Industrial Demonstrations (IDP) \$6.3 billion
- Advanced Nuclear (AN) Advanced Reactor Demonstration Projects, Generation III+ Small Modular Reactor Program \$3.3 billion
- Energy Improvements in Rural or Remote Areas (ERA) \$1 billion
- Long-Duration Energy Storage (LDES) \$505 million
- Clean Energy Demonstration Program on Current and Former Mine Land (CEML) \$500 million
- Liftoff Enabling Programs (LEP) \$133 million
- Distributed Energy Systems Demonstrations (DES) \$50 million



Clean Energy Demonstration Program on Current and Former Mine Land



Overview

Demonstrate the technical and economic viability of deploying clean energy on current (operating) and former (abandoned or inactive) mine land

Federal Funding Amount:

Up to \$500 million*

Funding Opportunities:

Clean Energy Demonstration Program on Current and Former Mine Land (CEML)

*Pending negotiations

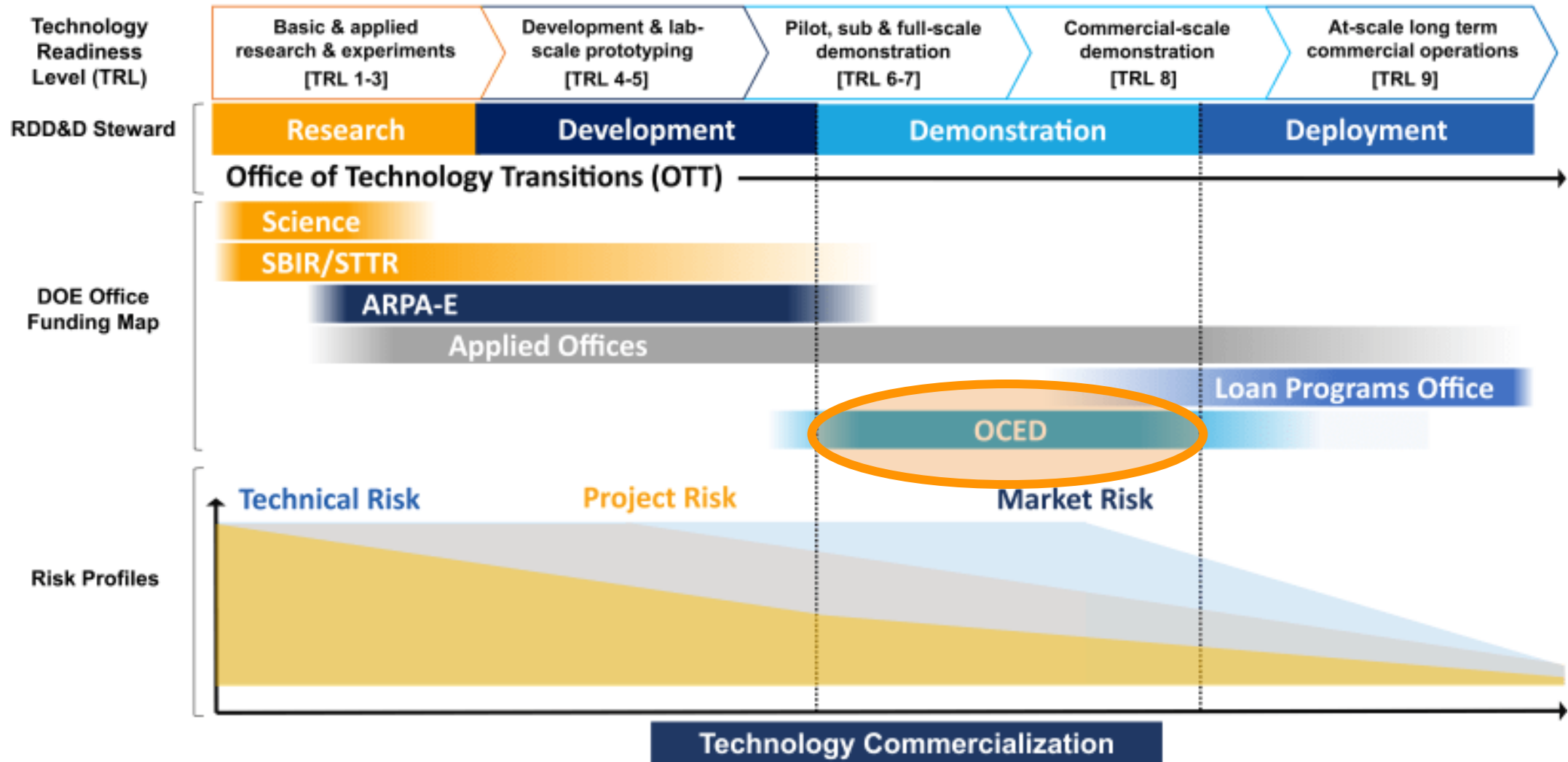
The Challenges

- **Demand for critical minerals** growing to manufacture new electronics and advanced technologies
- 1.5 million acres of **former mine land**, with no feasible industrial use, **not currently utilized for development**

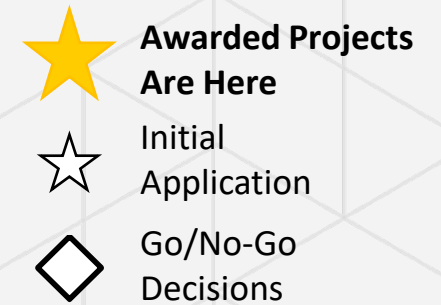
The Impacts

- **Decarbonizes mining operations** and **secures a low-carbon**, domestic clean energy **supply chain**
- **Repurposes the inactive mining sites**, make use of pre-existing energy infrastructure, and revitalize local economies
- **Supports diverse, locally driven efforts** that can be replicated in current and former mining communities across the country

Role of Demonstrations



Phased Approach to Project Management



- Awarded projects enter into a **cooperative agreement** with OCED
- **Community Benefits Commitments** are made public through each phase
- Local communities (state, local, and community stakeholders) will have the **opportunity for ongoing engagement** with OCED and the recipient(s)

Additional OCED Funding Opportunities

OCED Program	Announcement Type	Announcement Date	Funding Amount Available	Response Type	Response Due Date
Direct Air Capture Program	RFI	10/29/2024	TBD	Response – public input	12/17/2024
Generation III+ Small Modular Reactor Program	Solicitation	10/16/2024	\$900 million	Application	01/17/2025
Energy Improvements in Rural or Remote Areas	NOFO	10/03/2024	\$400 million	Concept Paper	02/27/2025
Carbon Capture Large-Scale Pilot Programs, Carbon Capture Demonstrations Projects Program	NOI	9/27/2024	\$1.3 billion	TBD	TBD
Regional Direct Air Capture Hubs	NOI	9/20/2024	\$1.8 billion	TBD	TBD
Long-Duration Energy Storage Program (LDES)	NOFO	09/05/2024	\$100 million	Full Application	02/13/2025

oced-exchange.energy.gov





**For more information
on CEML**

Contact OCED:

- **CEML program**
Engage_CEML@hq.doe.gov

Connect with OCED:

- **OCED Website & Newsletter Sign-up**
energy.gov/oced
- **Follow us on LinkedIn**
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Thank you!



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For more information, please visit: energy.gov/OCED