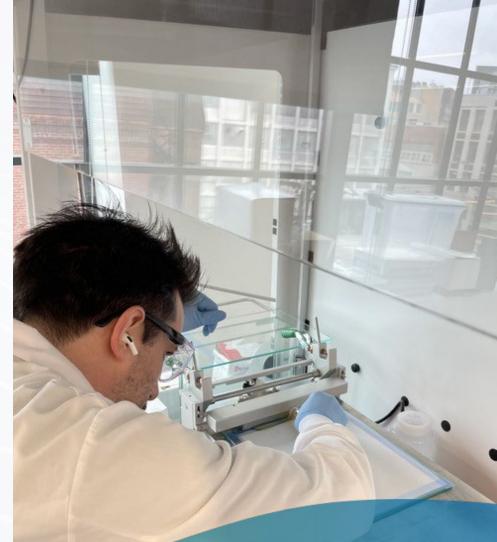
Technology-to-Market Programs





AGENDA

- Introduction and Overview
- ► Catalyst
 - Priya Yadav, MassVentures, VP of

Investments

- Diversity in Cleantech Early Stage (DICES)
 - Maddy Zeliff, Program Coordinator
- AmplifyMass
 - Leslie Nash, Program Director



Mission:

The Massachusetts Clean Energy Center's mission is to accelerate the clean energy and climate solution innovation that is critical to meeting the Commonwealth's climate goals, advancing Massachusetts' position as an international climate leader while growing the state's clean energy economy.

How we approach our work:



Innovation

MassCEC supports innovation to develop new solutions to unmet challenges, and reduce cost and increase performance of existing solutions.



Workforce Development

MassCEC ensures we have a diverse and equitable workforce that is trained and ready to take part in the growing clean energy industry.



Market Development

MassCEC de-risks commercially ready technologies paving the way for broad adoption, filling gaps unmet by the private sector.



MassCEC's clean energy programs and investments have awarded over \$442M and attracted over \$2.5B in private and federal capital



SINCE 2010 MASSCEC HAS:

Awarded **\$159M** for technology innovation and company growth

Enabled a **73%** increase in clean energy jobs Awarded over **47,000** clean energy projects Supported over **900** companies

r Built the **1st** 5 U.S. offshore wind port in New Bedford

Tested **52** wind turbine blades at the Wind Technology Testing Center



Massachusetts' Clean Energy Industry is Robust

44,000 direct jobs added since 2010, totaling 104,000+ workers in 2022 Economic contribution of \$1.8B in state and local taxes, and \$3.5B in federal taxes in 2022

\$14.2B contributed to
the Gross State
Product in 2021

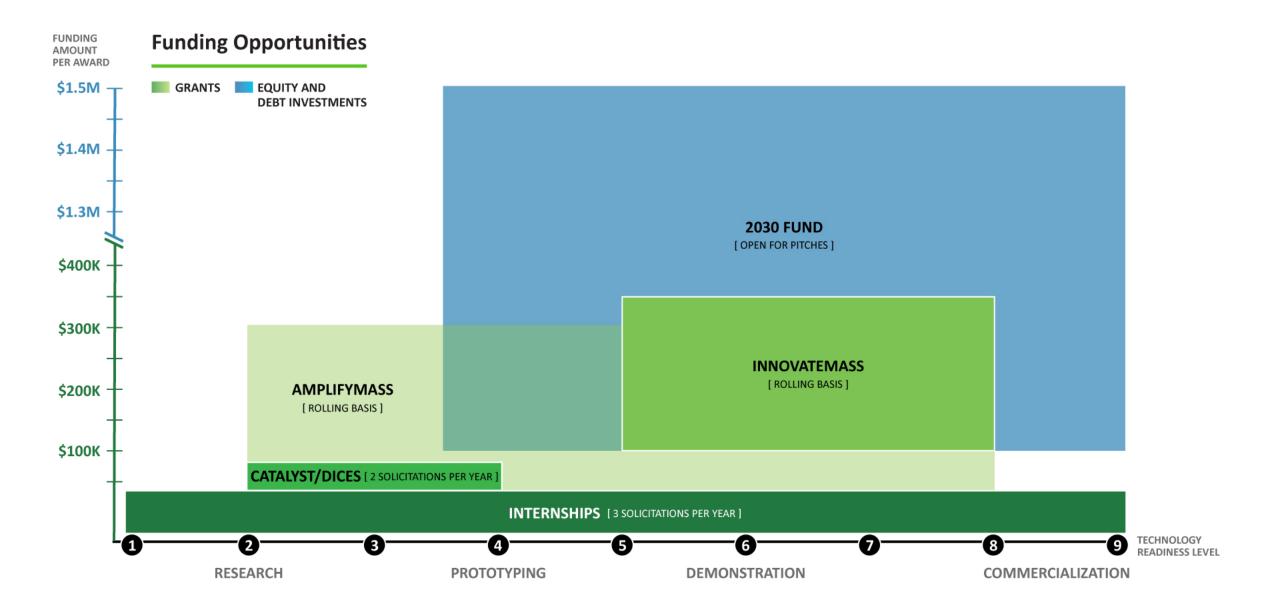


MassCEC has Trained Tomorrow's Clean Energy Workforce

5,400+ college and vocational internships

670+ employers offering internship opportunities **3,600+** certificate trainees

64% of interns are women or minorities



Focus Areas



MassVentures' Mission & Activities

Support the innovation economy and economic growth initiatives of the Commonwealth by helping to transfer research and early-stage innovations to viable technology businesses and jobs.

MV Capital

Investment Deep Tech Venture Fund RLF loans

Non-dilutive Grants

START grants MassCEC Catalyst grants Acorn Innovation grants

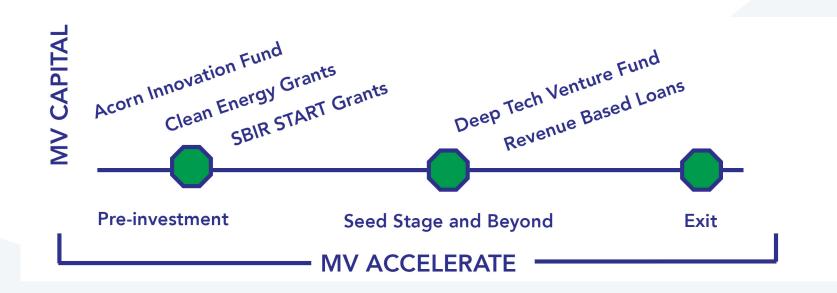
MV Accelerate

Commercialization Accelerator Partner Program MassVX InnovateMass SBIR Support MALSI Mass Tech Transfer Center



MassVentures' Platform

Is end to end, from pre-investment to exit. We offer mentoring & business guidance, grants, investments and follow on funding. We are intentional in supporting founders who have diverse backgrounds or are from diverse geographies in the state.



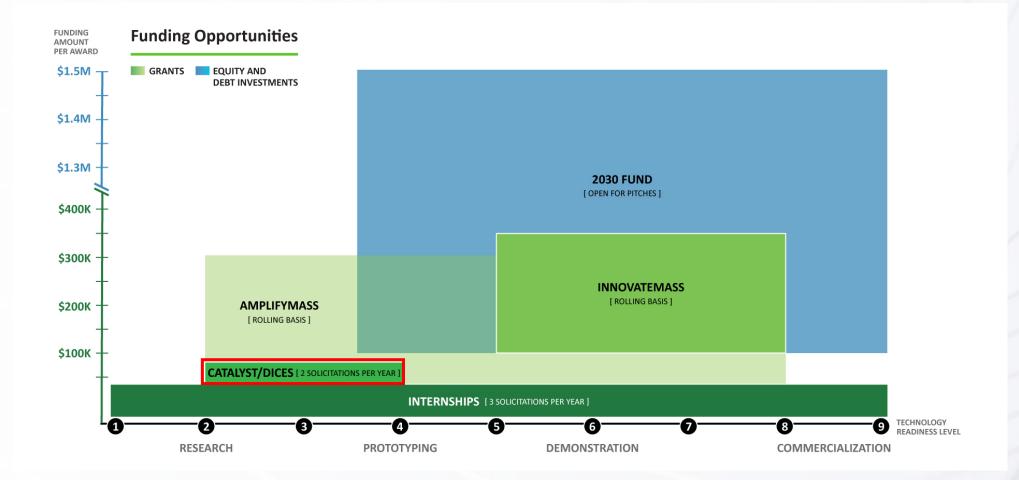


Catalyst & Diversity in Cleantech – Early Stage (DICES)





Scaling Markets Beyond Technological Readiness



Catalyst & DICES

Enabling researchers and young companies to develop prototypes



Support

- Grants of up to \$75,000 for cleantech prototype development
- Technical and business support from MassCEC and MassVentures



Timing

- Solicitations 2x/year. Spring & Fall
- Open now!



- Catalyst: MA-based startups & MA-based researchers
- DICES: MA-based eligible woman- and minority- owned startups

Competitive Two-Step Application Review Process

Award Projects

Business & Technical Support

Eligibility - DICES

Applicants who are interested in applying for the DICES Program must complete the following additional steps <u>PRIOR to applying:</u>

PART OF Certification Program for SDO

1. Follow this link to complete the 30-second self assessmentas part of the Certification Program for the Supplier Diversity Office of MA

https://www.mass.gov/forms/ta ke-the-certification-selfassessment

Take the certification self-assessment

OFFERED BY Supplier Diversity Office (SDO)

This interactive tool will ask you a few questions about your business and will recommend the next steps for SDO and third-party certifications your business may be eligible for.

You will need:

Disclaimer: This self-assessment provides general guidance on whether your company/organization may qualify for the Supplier Diversity Office (SDO) programs. However it does not guarantee eligibility for inclusion in the Small Business Purchasing Program (SBPP) or in any of the diversity categories overseen by SDO. Eligibility for the SBPP is made through the COMMBUYS SBPP registration process and eligibility for SDO certification is determined through a certification investigation conducted by the SDO.

General Questions

Are you a

• for-profit business

Onon-profit organization

^Ogovernment organization

Eligibility - DICES

2. Submit a screenshot/download of the results page as an attachment to your Catalyst application

Woman Business Enterprise (WBE) Certification

Your company should apply for WBE certification. As a Massachusettsbased new applicant, start the process by registering for and attending a **Pre-Certification Workshop**. The workshop covers our certification criteria, process and required documents. Once you complete the workshop, you will receive a copy of the certification application form to complete.

If you have questions please contact the Supplier Diversity Office at **webmaster.sdo@mass.gov** or 617-720-3129.

Let us help you get started! Click "Next" to enter your contact information.

« Previous

Progress

 $\overset{\mathsf{Next } *}{\to}$

Eligibility - DICES

If your application is selected for an award, it is encouraged (not required) that you complete the <u>full SDO certification process</u>

Mass.gov	/	Search Mass.gov	SEARCH Q	
PART OF Certification Program for SDO		OFFERED BY Supplier Diversity Office (SDO)		
Apply for based b	or diversity certification ousiness	as a Massachu	setts-	
SDO Certificatio	n is a free service			
certification fro	h a principal place of business in Massachusetts interested in obta m the Supplier Diversity Office are required to attend a mandator n workshop prior to submitting an application.	y, two-hour		
Register for certification				
THE DETAILS		CONTACT		
THE DETAILS		CONTAC		
What you need	What you need	Supplier	Diversity Office	
How to register	 The Supplier Diversity Office certifies companies as Massa 			
Downloads	Minority Business Enterprises (MBE), Women Business Enterprises (WBE), Veteran Business Enterprises (VBE), and Portugues	' 🗆 Online	2	

Catalyst and DICES Program Benefits

- Access to a vast network of partners
- Expert local market and policy insights
- Mentoring from MassCEC and MassVentures
- Finalist receive complimentary pitch coaching and business mentoring

Application Requirements

✓ Overview of technology and merit

✓ Clean energy impact

✓ GHG avoidance from cost declines, efficiency improvements, etc.

- Commercialization potential and proposed business model
- ✓ Project plan (what, when, where, how much)
- ✓ Project budget summary
- ✓ Information on team members

What do we mean by "prototype"?

"a first, typical or preliminary model of something, especially a machine, from which other forms are developed or copied" (Dictionary.com)

- NOT basic research
- Early-stage technology design, development, and validation
- Test a concept, use to evaluate your design
- You are creating a "thing" not an idea
- Real, working system or product
- Generating data to show the invention works

What are we looking for?

STRENGTHS OF THE PROJECT 🗸

✓Technical merit

- ✓ Technology is promising, new, and disruptive!
- ✓ Commercialization potential
- \checkmark Market is large and/or growing, strong value proposition
- ✓ Market need exists
- ✓ Strong project plan
- ✓ Achievable within timeline and budget
- ✓ Will result in meaningful product development progress
- ✓Knowledgeable team members
- ✓ Clear understanding on the steps needed for commercialization
- ✓ High likelihood of success

PROGRAMMATIC FIT

2

✓ Clean energy impacts

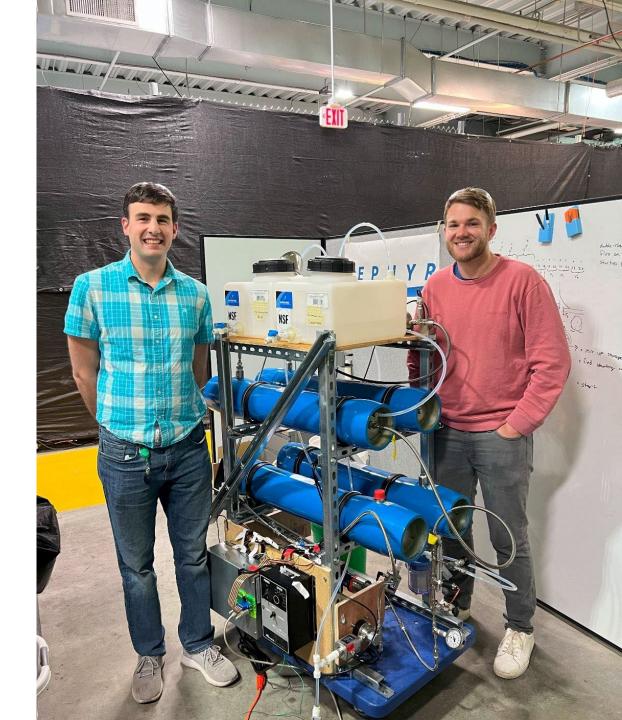
- ✓ Proposed technology demonstrates potential for measurable climate impacts through reduction of fossil fuel use
- ✓ Potential for follow-on funding
- ✓ Likelihood of market entry for university projects
- ✓ Likelihood of attracting private investment for start-ups
- ✓ High likelihood of success mattering



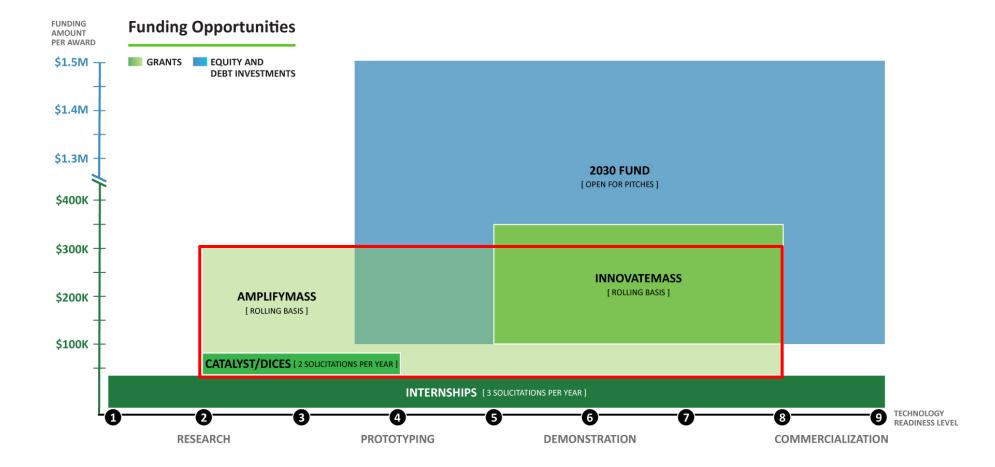
Timeline and Logistics

September 2023		Early December, 2023	Week of January 8 th , 2024	February 2024
Solicitation released Application period open 28th	ır – midnight ber	Applicants notified of finalist status Finalists start to receive pitch coaching from MassVentures	Finalists pitch to a panel of judges	Decisions Made Winners notified Not selected finalists are given written feedback

AMPLIFYMASS



SCALING MARKETS BEYOND TECHNOLOGICAL READINESS



AmplifyMass

Supporting MA young companies and researchers on federal and non-federal awards via cost share



Support

- Cost-share or adder grants for a prime award
- Up to \$300,000



Timing

- Applications are accepted on a rolling basis
- Applications must be submitted to MassCEC before the primary funding is contracted



Eligibility

- Companies must be a small business and be based in MA
- MA-based universities or nonprofits
- TRLs 2-8

Competitive Two-Step Application Review Process

Award Projects

Leverage Federal Funding

What are we looking for?

STRENGTHS OF THE PROJECT 🗸

✓ Technical merit

- ✓Technology is promising, new, and disruptive!
- ✓ Potential impact to the energy sector
- ✓ Potential impact to Massachusetts
- ✓ Value of MassCEC support
- ✓We are filling a meaningful gap
- ✓Knowledgeable team members
- ✓ Clear understanding on the steps needed for commercialization

✓ High likelihood of success

PROGRAMMATIC FIT



✓ Clean energy impacts

- ✓ Proposed technology demonstrates potential for measurable climate impacts through reduction of fossil fuel use
- ✓ Potential for market entry
- ✓ For companies: improve competitiveness in existing market
- ✓ For researchers: clear path to industrial relevance
- ✓ High likelihood of success mattering

RECENTLY AWARDED PROJECTS

Fraunhofer USA

Aiming to develop a novel, technologyassisted approach to conducting thermal retrofits in buildings.

ADL Ventures

Aiming to establish a national advanced building construction collaborative that convenes key industry players, provides technical support to business owners, and deploy highly enabling technologies to reduce constructions carbon footprint.

NewGrid, Inc.

Developing a grid optimization technology with the potential to reduce the cost of grid congestion by 25-50%, saving over \$1B annually

WPI (Center for Advanced Research in Drying, Professor Yagoobi)

Multi- year effort focused on reducing energy consumption in drying processes within the food and agriculture, pulp and paper, chemicals, and pharmaceutical industries.

Questions?

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QUESTIONS?

