



# Making Massachusetts a Leader in Energy Storage

Emily Izzo

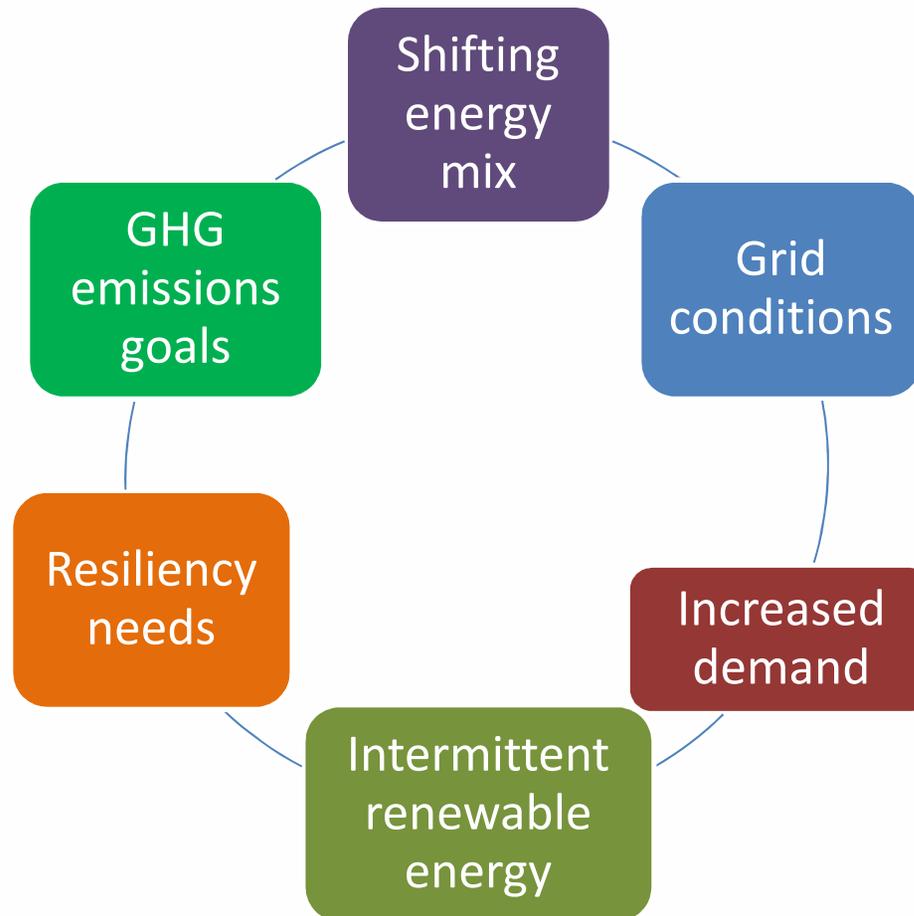
September 9, 2015



## MassCEC's Mission

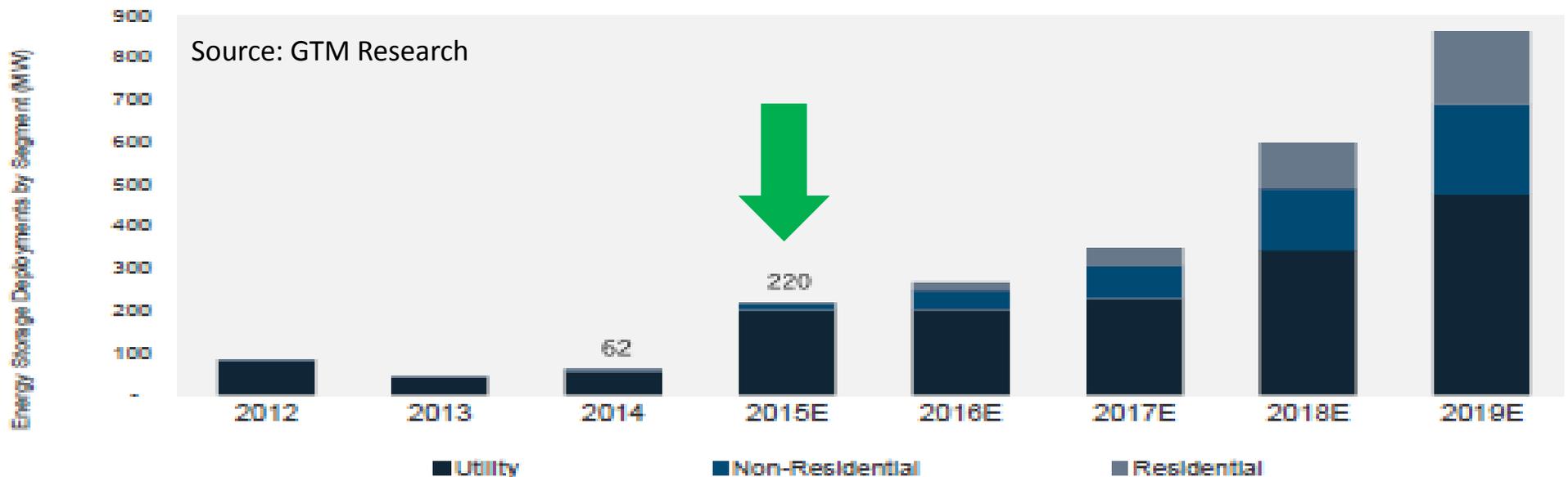
The Massachusetts Clean Energy Center (MassCEC) is dedicated to accelerating the success of clean energy technologies, companies and projects in Massachusetts—while creating high-quality jobs and long-term economic growth for the people of Massachusetts.

# Why Energy Storage?



# Energy Storage Opportunity

- U.S. growth potential is large



- AZ, CA, HI, OR, TX, WA already promoting storage
- Global growth potential is \$30 billion by 2022

# Energy Storage in Massachusetts

## Leading Innovation



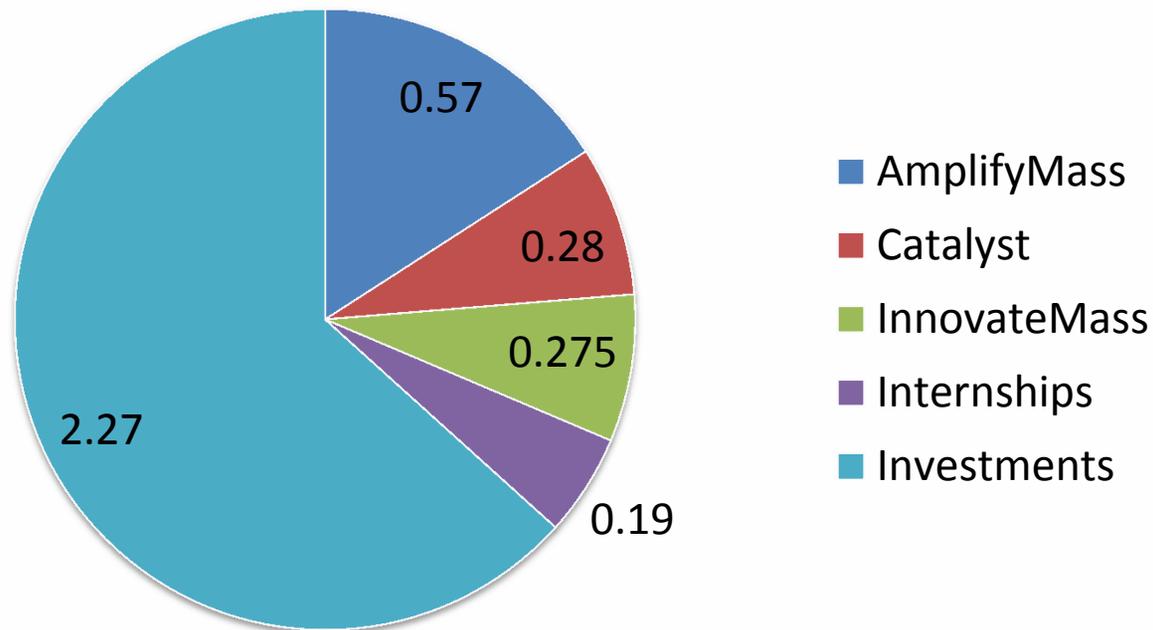
## Promising Industry





## Ongoing MassCEC Efforts

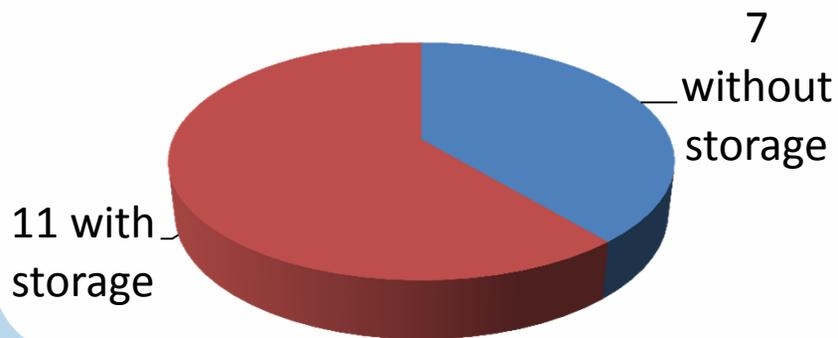
- Supporting 19 companies across five programs with \$3.58 million (amounts in millions)



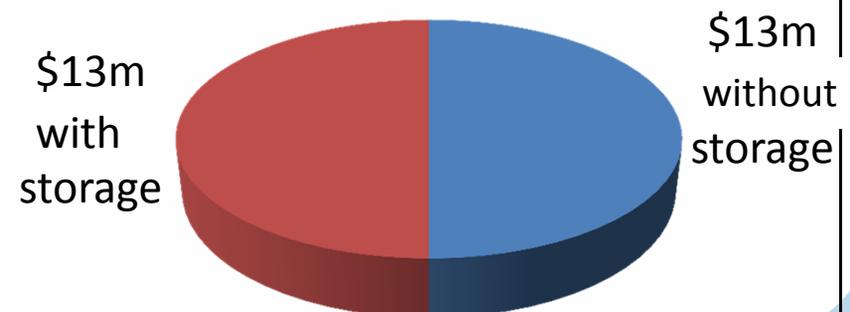
## Ongoing DOER Efforts

- Community Clean Energy Resiliency Initiative
  - \$40 million available in municipal grants
  - Resiliency at critical facilities with clean energy technologies, contracts in progress
  - Completed 2 rounds, awarded almost \$26 million

**Number of Projects**



**Dollar Amount**





## DOER Energy Storage Initiative (ESI)

- Launched in June 2015
- \$10 million allocated from Alternative Compliance Payments
- Multi-pronged approach to establish an energy storage market structure, build strategic partnerships, support storage projects
- Two main themes
  - Market Signals
  - Demonstration Projects



## Ongoing DPU Efforts

- DPU grid modernization plans anticipated to incorporate energy storage
- Technical conference held in July 2015
  - Explored regulatory issues related to deployment
  - Engaged discussion on utility experience with energy storage, third-party and ratepayer ownership
  - Leveraging energy storage as a service product



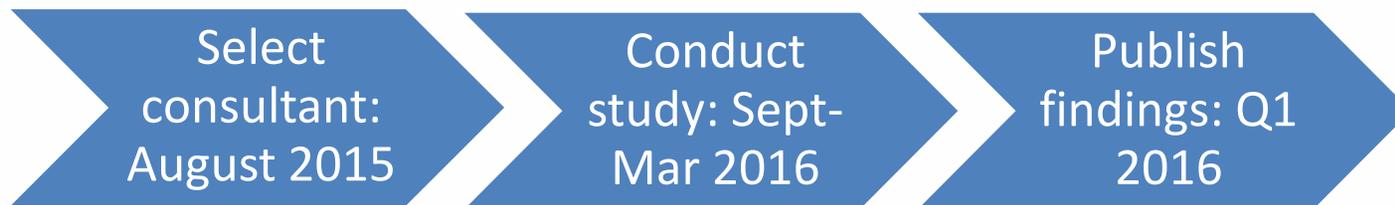
# MassCEC/DOER Energy Storage Study

<b>Part 1: Industry focus</b>	<b>Part 2: Policy and regulation focus</b>
Evaluate the industry landscape	Evaluate policy and regulatory landscape, summarize other states' experiences
Identify the economic development opportunities	Identify cost-effective storage that benefits the grid
Identify market opportunities, including demonstration projects, to support industry growth	Provide policy options and potential regulatory changes that promote adoption



# MassCEC/DOER Energy Storage Study

- Intended to inform MassCEC, DOER and DPU activities
- Includes grid scale, distribution scale, behind-the-meter storage
- Includes a breadth of applications, including renewable firming
- Includes possibilities for stacking the economic benefits
- Features broad stakeholder engagement



Stakeholder Engagement



## Follow On Activities

- MassCEC's Storage-focused InnovateMass
  - Annual program to help innovative startups prove out their technologies with a pilot site
  - Anticipated as a Spring 2016 funding round
- ACP funded projects
- Potential demonstration projects



# Opportunities for Engagement

- MassCEC and DOER welcome your participation in the Study through our stakeholder outreach process



Emily Izzo, Innovation & Industry Support Project Administrator

[eizzo@masscec.com](mailto:eizzo@masscec.com)

Kavita Ravi, Director of Strategic Analysis

[kravi@masscec.com](mailto:kravi@masscec.com)

<http://www.masscec.com/technology/about-energy-storage>



[MassCEC facebook.com/MassCEC](https://www.facebook.com/MassCEC)



[@MassCEC](https://twitter.com/MassCEC)



[MassCEC Clean Energy Group](#)