

Massachusetts Clean Energy Center

Investing in Our Clean Energy Economy

August 13, 2010

MassCEC Areas of Focus

Idea

Research

Development

Manufacturing

Project/Installation

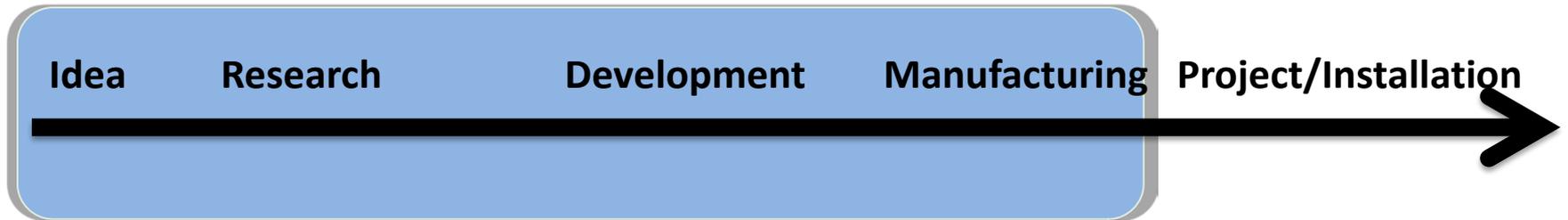
Investments in Clean Technology

**Renewable Energy
Generation**

Workforce Development

Clean Energy Sector Development

Investments In Clean Technology



**Company
Catalyst**

**Investments in
the
Advancement
of Technology**

**Investments in
Job Creation**

MassCEC Investments To Date

- MassCEC has closed investments, financings and loan guarantees amounting to over \$6M & leveraged nearly \$35M in additional funds:
 - Lilliputian Systems
 - Premium Power
 - WindPole Ventures
 - PanelClaw
 - SolarOne Solutions
- MassCEC has awarded an additional \$4.5M and expects to leverage over \$40M in additional funds
- MassCEC anticipates approximately 550 jobs will be created in Massachusetts
- Currently working to close 9 deals and conducting due diligence on 4 other companies/technologies

Renewable Energy Generation

Idea

Research

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MassCEC to Date: Solar

Comm Solar Stim:

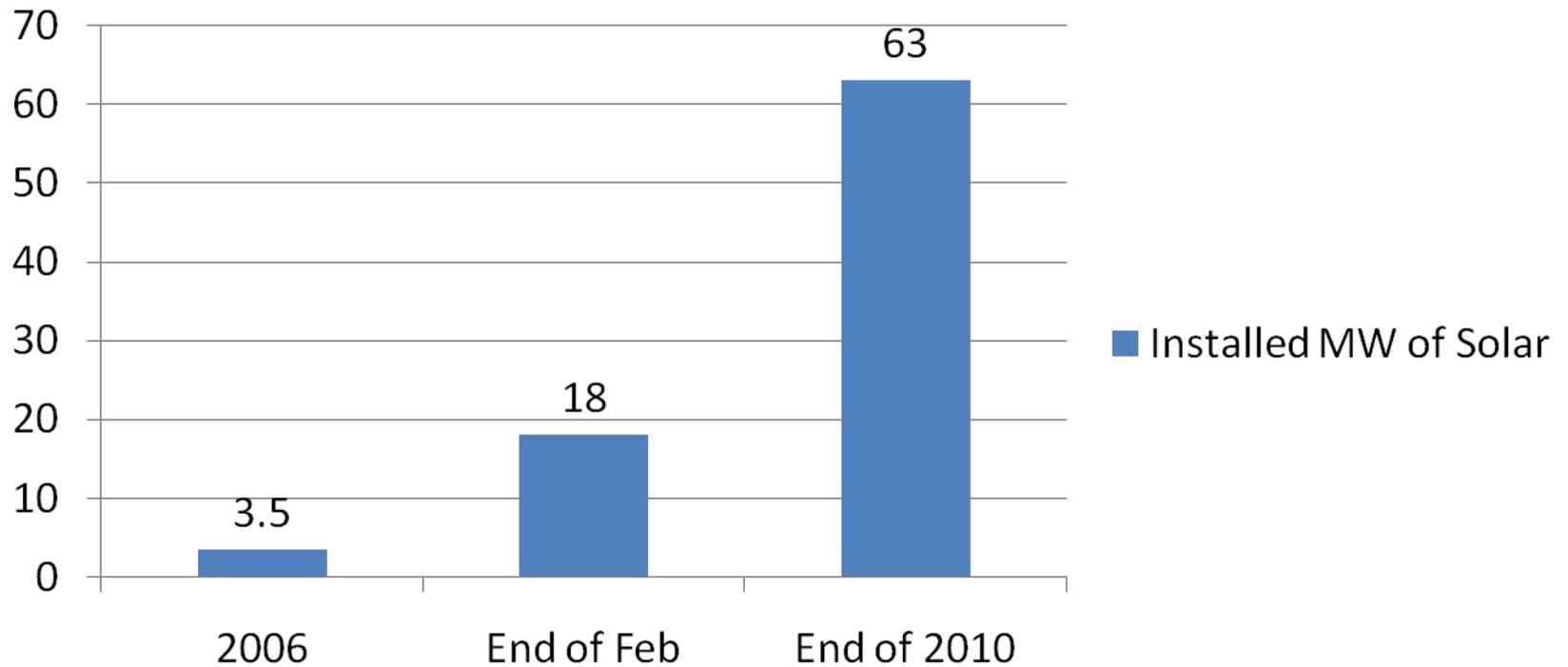
- Block 1: \$4 million budget
- 92 applications received
- 7.1 MW of installed capacity applied
- \$7.3 million dollars of rebates applied
- Block exceeded 4 million in apps in 50 mins
- Avg rebate percentage of total project cost - 18%

Commonwealth Solar II

- Block 1: \$1 million budget
- Program still accepting applications
- ~\$500k of rebates applied for to date
- 77 applications received to date
- 372 kW of capacity applied for

MassCEC Solar To Date

Installed MW of Solar



MassCEC Solar



MassCEC Wind

Community Wind

Block 1:

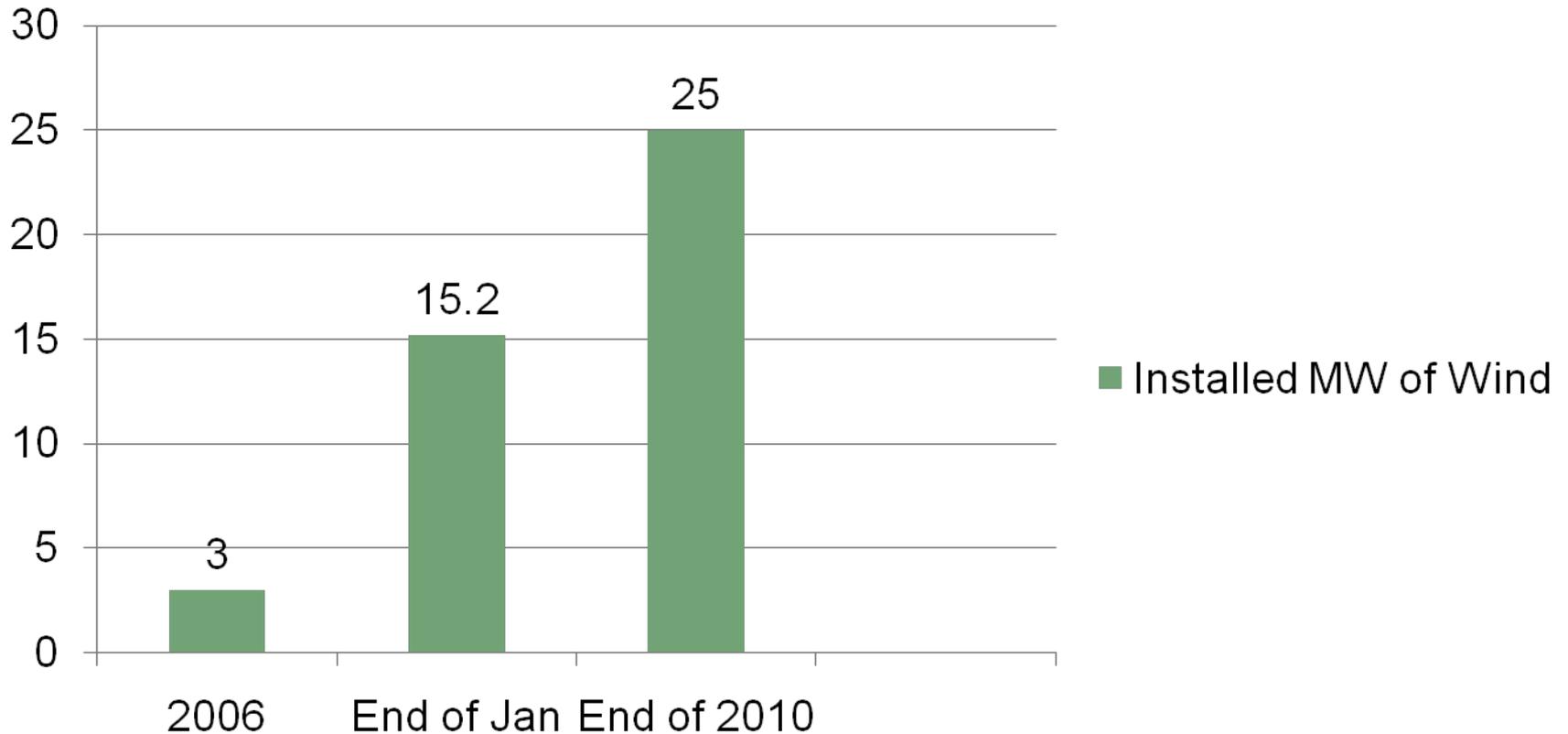
- \$2.2 million budget
- Received 22 Applications, totaling nearly \$6 million in grant requests
- Awarded a total of \$2,214,750 for 9 projects
- Solicitation posted for less than 2 months
- Average CEC funding/kW = \$484/kW

Block 2:

- \$2.5 million budget
- Received 47 applications for over \$8 M in requests
- Awarded a total of \$2,539,336
- Solicitation posted for less than 2 months
- Average CEC Funding/kW = \$138/kW

MassCEC Wind To Date

Installed MW of Wind



MassCEC Wind



WINDPOLE
A NEW GENERATION OF POWER

firstwind
CLEAN ENERGY. MADE HERE.

Vestas
No. 1 in Modern Energy

Cape Wind
Energy for Life.

FloDesign Wind Turbine
there's change in the wind

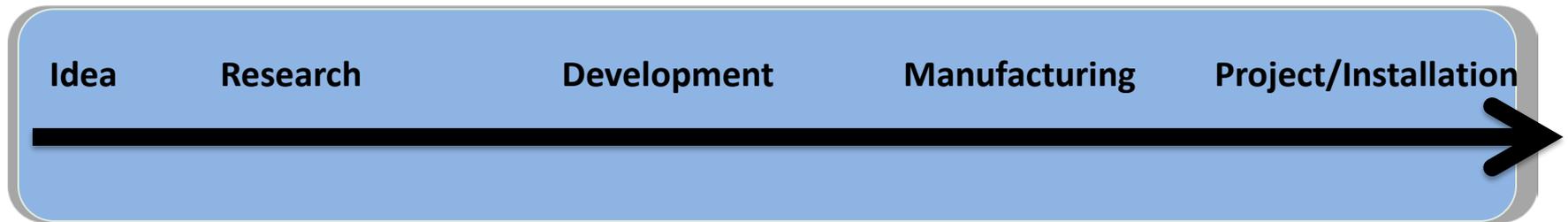
MORRISON BERKSHIRE INC.

American Superconductor

AERONAUTICA
Windpower

SECONDWIND

Clean Energy Sector Development

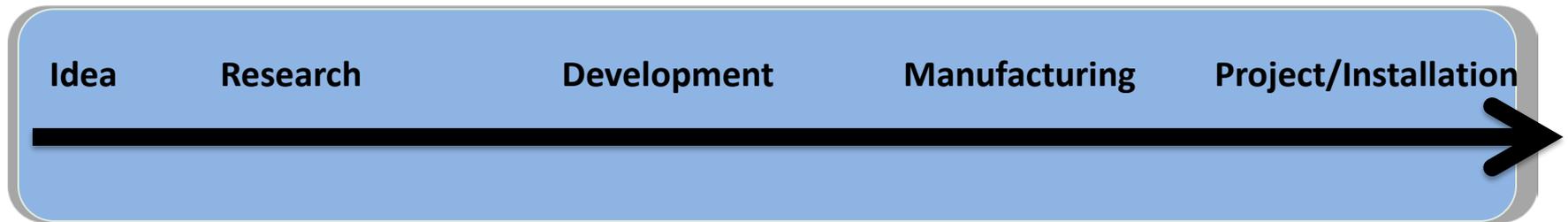


Wind Technology Testing Center

- Awarded \$25M from ARRA & \$2M from NREL
- Broke ground on December 1, 2009.
- WTTC will create the largest, most functional and most flexible blade testing center in North America - if not the world
- Integral to U.S wind industry as the key facility for next generation wind turbine technology development.
- Open for business: February 2011



Workforce Development





Workforce Development

- Three Major Initiatives
- \$4.5 million awarded since April 2009
- 20 education and training grants geographically dispersed
- Sponsored 5 workforce training and education events reaching more than 2000 people (mostly academic institutions and job seekers)
- Awarded 3 additional non-initiative grants (\$410,000)
 - **Executive transition program at New England Clean Energy Council (25 Fellows)**
 - **WPI/Clark Institute for Innovation in Energy and Sustainability**
 - **UMass Amherst Carbon Sequestration**

Program Summary

Pathways Out of Poverty

April 2009- Awarded \$1,000,000 to five innovative green jobs training programs to help lift people out of poverty. Programs are running Worcester, Lowell, Brockton, Pittsfield, and Springfield/Holyoke.

MassGREEN- a Statewide Network of Energy Efficiency Training Centers

July 2009- Awarded \$1.875 Million to Springfield Technical Community College to create regional training centers that will train people in residential energy efficiency skills. Courses are rolling out this September at 7 colleges.

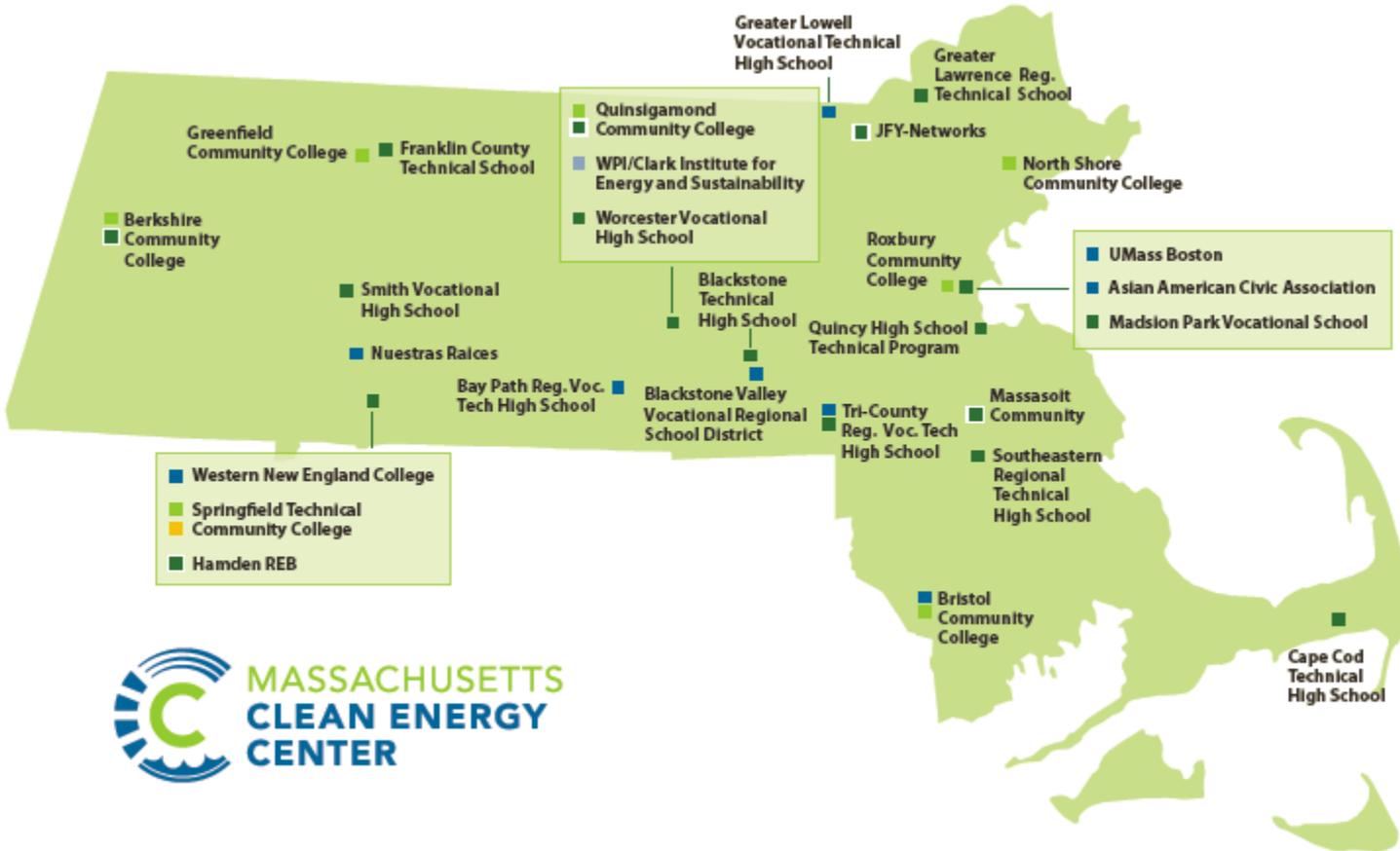
Workforce Capacity Building

September 2009- Awarded nearly \$1million for program development in clean energy workforce training at six sites. Programs include vocational schools, community college, community based orgs, and 4-year universities.

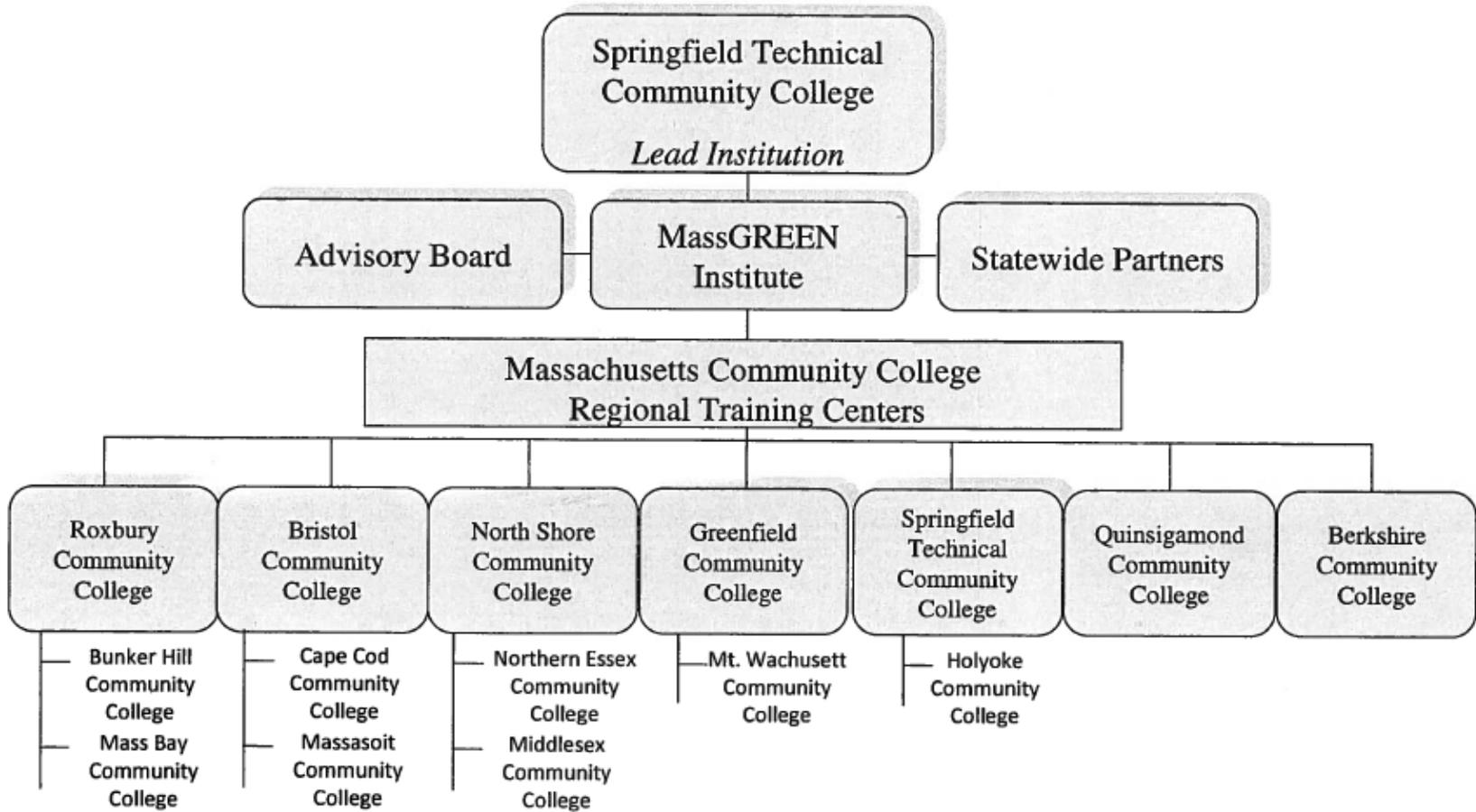
Equipment Grants

May and July 2010- \$550,000 to 9 training programs.

Workforce Development



MassGREEN at www.massgreenstcc.com



Massachusetts Clean Energy Sector

The New York Times

Green Inc.

Energy, the Environment and the Bottom Line

**Good Energies Invests in
Massachusetts Clean
Energy Firm**

THE WALL STREET JOURNAL.

WSJ.com

“The second largest was a \$380 million offering by Boston-based [A123 Systems Inc.](#), a leader in the development of batteries for electric cars and hybrids.”

Boston Business Journal

***Massachusetts bucked 2009's
national decline in clean-tech
investing***

“Massachusetts cleantech companies saw a 21 percent year-over-year increase in venture capital investments in 2009...California...saw its investment decline 38 percent from 2008”

Boston Business Journal

THE BOTTOM LINE

**Cleantech can help Mass.
regain its mojo**

***Cleantech VCs offer rare bright
light in '09***

