

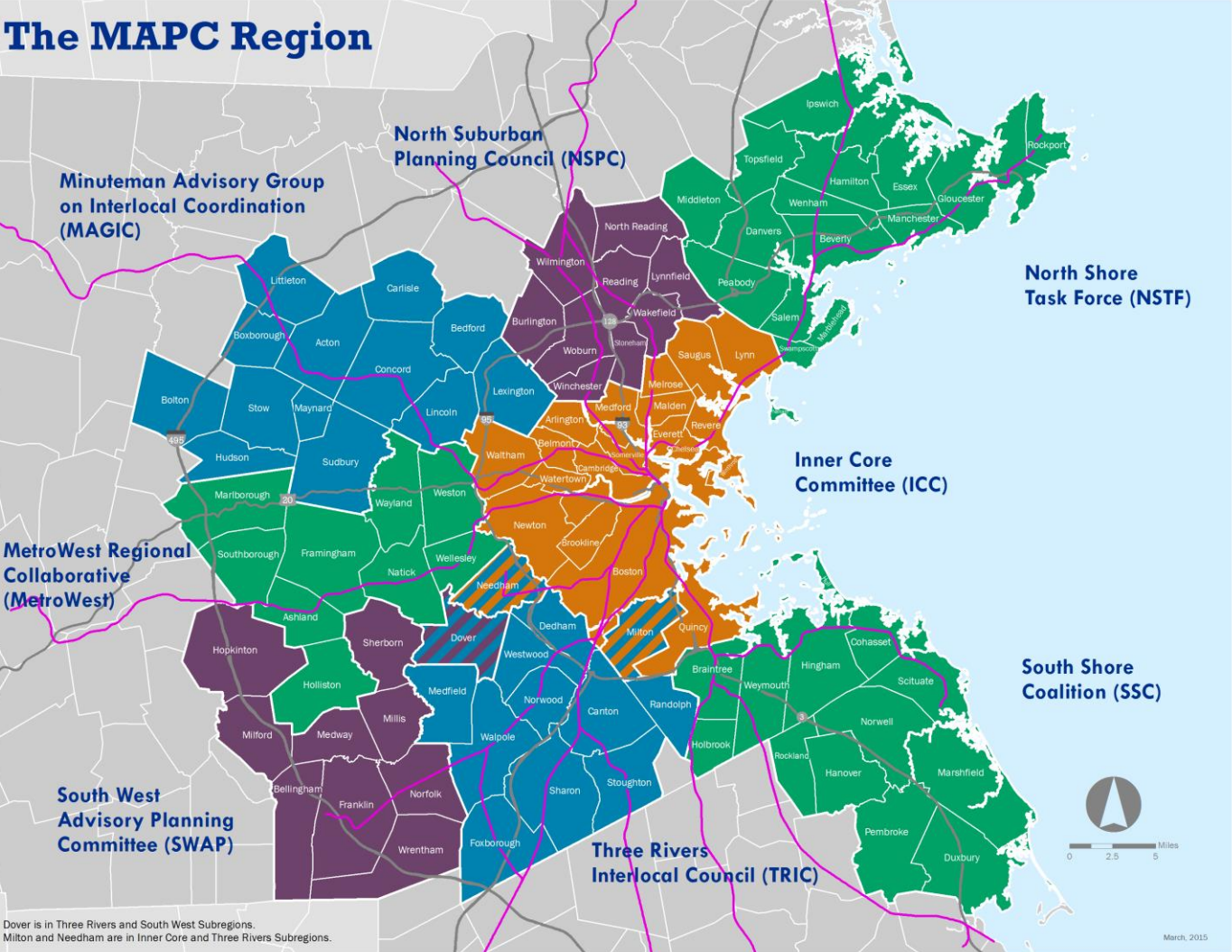
Advancing Clean Energy through Municipal Planning

Massachusetts Climate Action Network
Community Shared Solar: Chapter Roundtable
09 December 2015



The MAPC Region

The MAPC Region



Dover is in Three Rivers and South West Subregions.
Milton and Needham are in Inner Core and Three Rivers Subregions.

- 101 municipalities
- 1,440 square miles
- Nearly 3.2 million residents
- 1.8 million jobs (2010 census)



MAPC Clean Energy

Regional Energy Projects

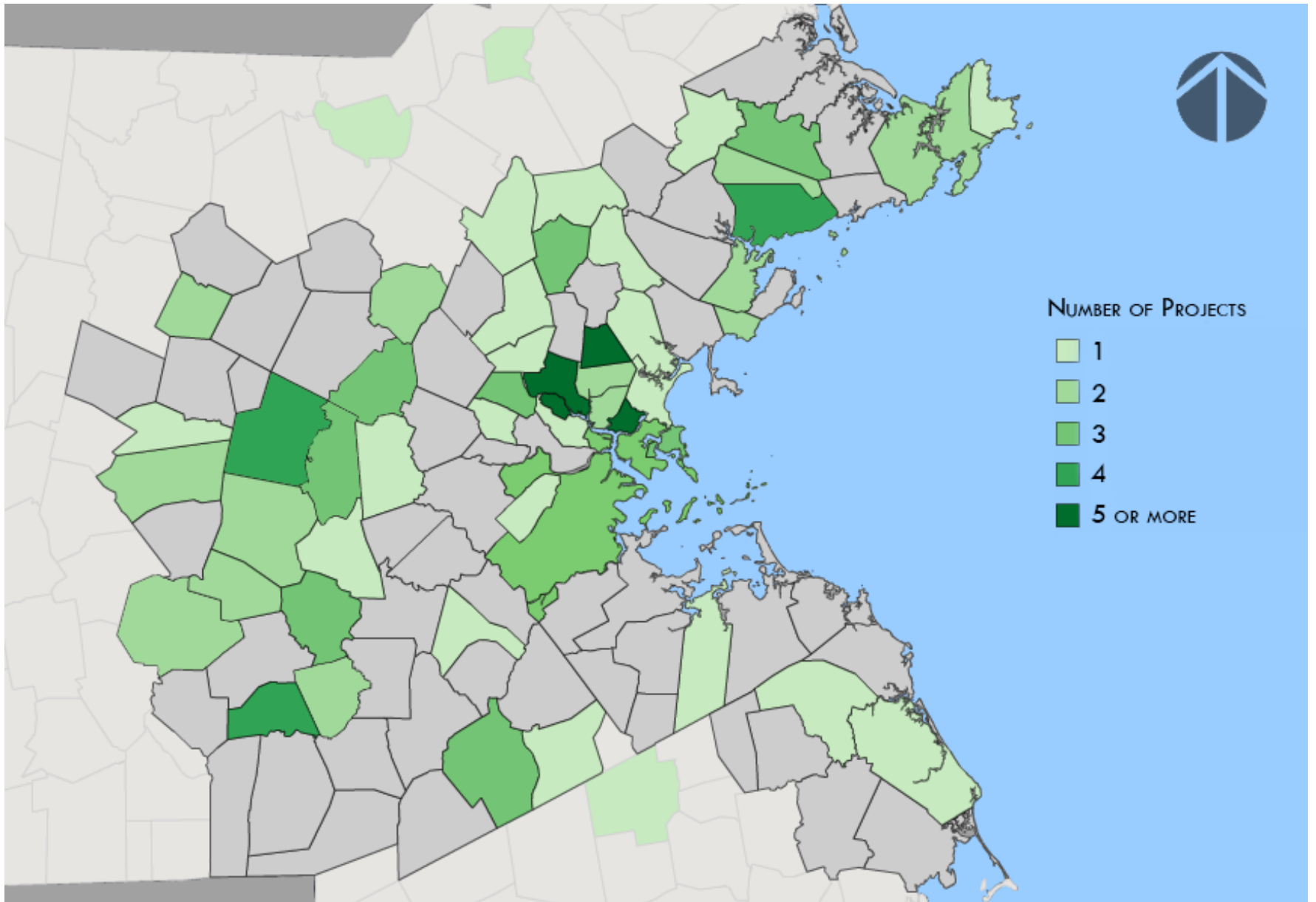
- Regional Procurements: ESCO, LED Streetlights, Community Aggregation, **Solar**
- Hybrid Conversion
- Energy Resiliency

Local Energy Action Program

- Connecting municipalities with incentives + plug-and-play programs
- Community energy and climate baselining, planning, and strategizing
- Outreach programming and education

Energy Technical Assistance

- Grant Writing
- Solar Permitting and Zoning
- Green Communities Designation
- State and Local Policy
- Methane Leaks



Regional Energy Work

MAPC Communities, January 2015



COUNCIL

MAPC: By the Numbers

\$7

Million

Deep municipal building retrofits will result in over \$7 million in cost savings annually.

15–20

MW New Capacity

Municipal solar projects in design that could produce 15–20 MW of new capacity.

\$1

Million

Over \$1 million in funding from Green Communities.

\$125,000

Over \$125,000 identified in funding to create new energy manager positions in 7 communities.

27

Million kWh

Over 70,000 streetlights retrofitted or in design will generate annual savings of over 27 million kWh and \$4.1 million.

\$750,000

Over \$750,000 awarded for clean energy resiliency projects.

Solar Initiatives at MAPC

- Regional Solar Initiative
 - Administered a procurement on behalf of 17 communities in the MAPC region to select a solar vendor for municipal solar projects
 - 15-20 MW of total potential capacity being explored
- Solar for Residents and Businesses
 - Assisted communities to apply for and successfully run a Solarize Mass campaign (MassCEC program)
 - Implemented innovative pilots to evaluate solar models like EnergySage
- Outreach and Education
 - Organized webinars and workshops on a variety of solar topics like bylaws, permitting, community shared solar
- Policy Work
 - Advocated for increasing the net-metering cap

MAPC Solar Projects: Applicability to CSS

- Lessons Learned

- Procuring any kind of energy service is a significant administrative undertaking for a municipality
- Critical to have state agencies looped in, and have the oversight and expertise of an owner's agent
- A municipal champion can play a key role in moving projects along

- Municipality as a Partner

- A CSS project on municipal property can be explored
- Timeframe – rooftop projects could be completed in a year, but at least 1.5 years for ground-mount/landfill etc.
- Model could vary – e.g. municipality as the majority off-taker and the rest being sold as CSS shares

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