

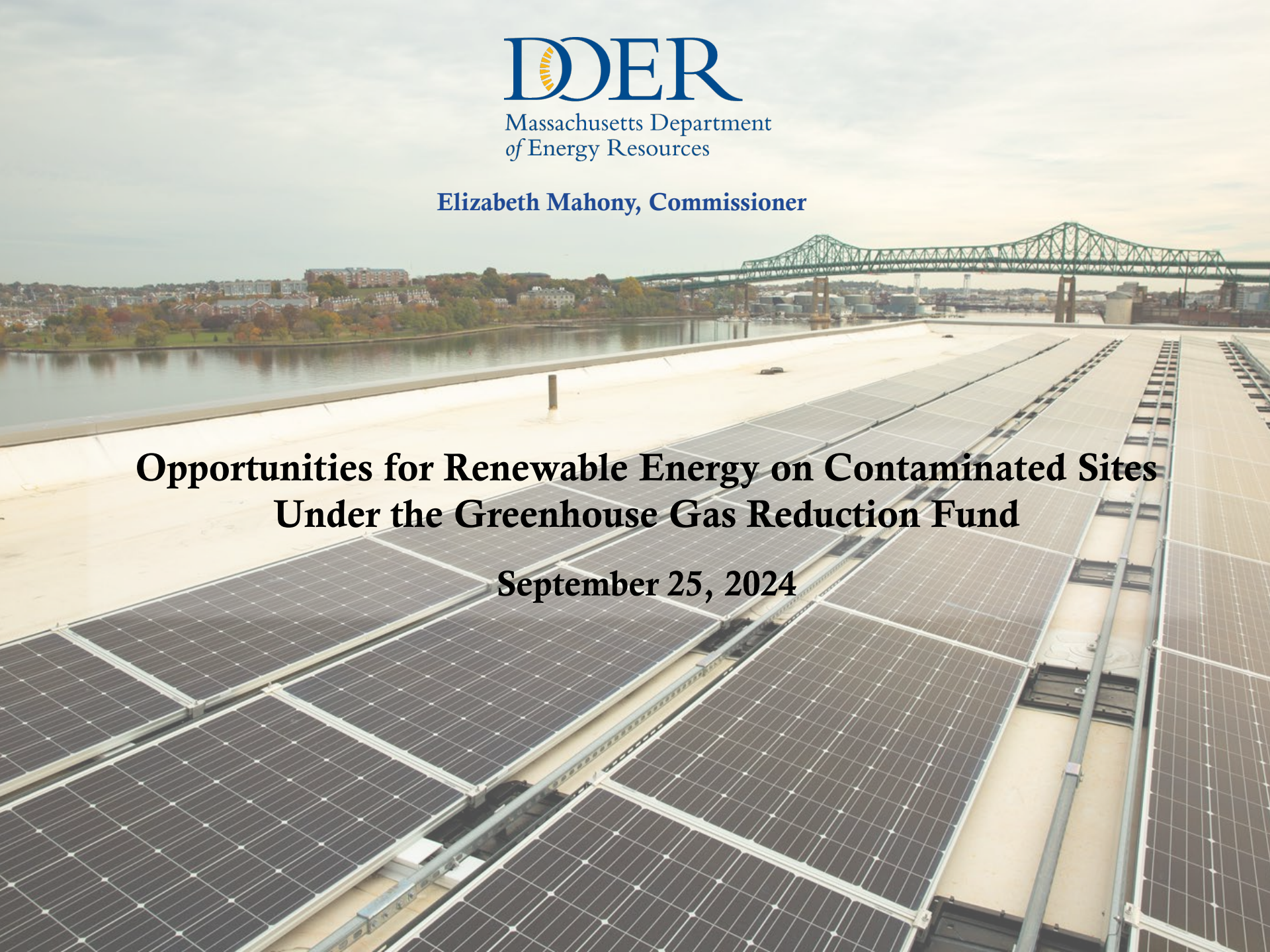


Massachusetts Department
of Energy Resources

Elizabeth Mahony, Commissioner

**Opportunities for Renewable Energy on Contaminated Sites
Under the Greenhouse Gas Reduction Fund**

September 25, 2024



DOER Solar Programs

- DOER created SMART (Solar Massachusetts Renewable Target) to promote cost-effective solar development
- 140,000+ solar projects / 4 GW under all DOER programs
- 37 landfill projects (123 MW), 12 brownfields projects (~50 MW) under SMART
- SMART additional incentives:
 - Location based: building-mounted, floating, brownfield, landfill, canopy, agricultural
 - Off-taker based: low-income property, low-income CSS, public entity
 - Energy storage
 - Solar Tracking
 - Pollinator



Greenwood Street Solar Farm in Worcester

Municipally-owned 8.1 MW-DC solar array; covers entire top plateau area of former landfill



Community Solar on Brownfields Site in Holliston

10 MW project with 5,000 kW of energy storage

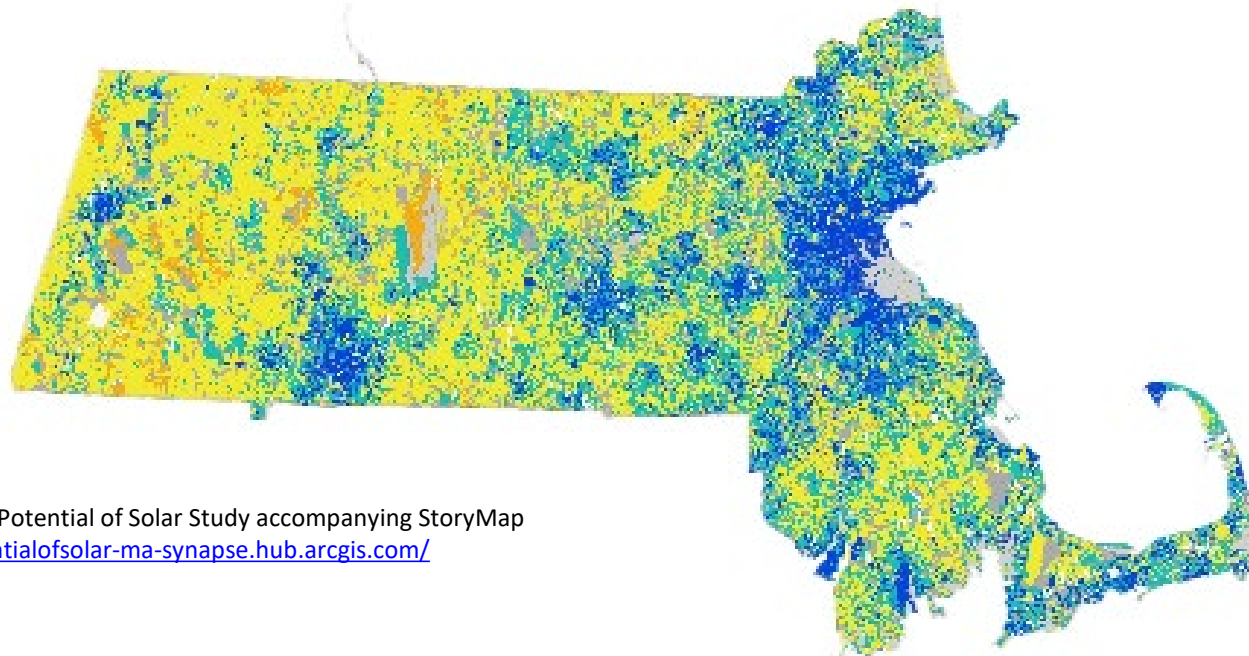
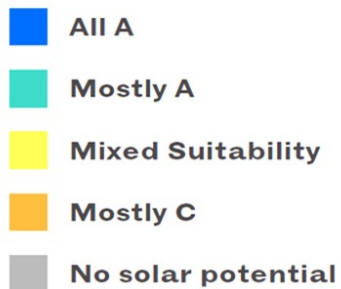
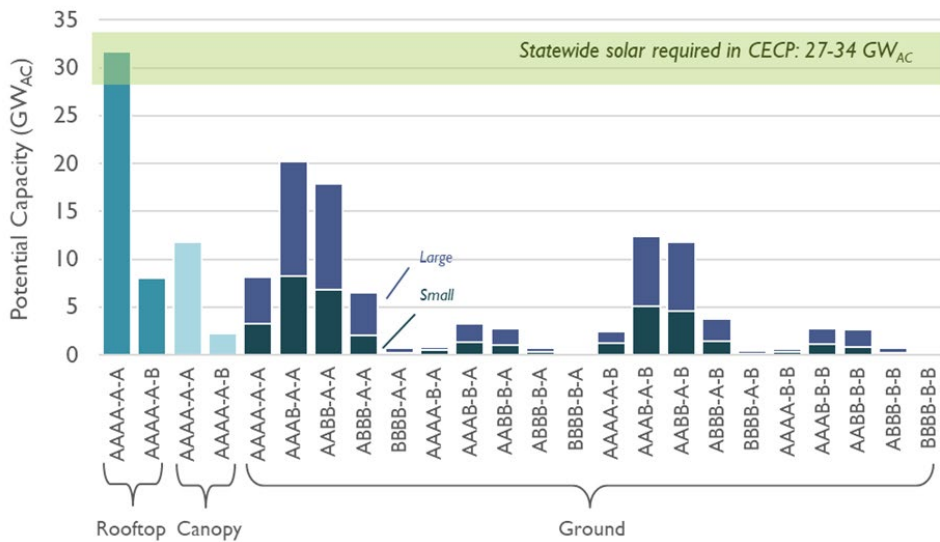


Image from Technical Potential of Solar Study accompanying StoryMap
<https://technicalpotentialofsolar-ma-synapse.hub.arcgis.com/>



Solar potential by combined suitability score, all types, no "C" grades

SMART Review Guiding Principles

Equity

Prioritize historically underserved populations and those disproportionately affected by climate change

Consumer Protection

Ensure the value and benefits of the SMART Program are passed onto participants

Transparency

Create accessibility to program data to ensure implementation is consistent and just

Coordination

Ensure SMART is in harmony with existing policy

Simplicity

Reduce burdensome requirements to participate

Solar For All in Massachusetts

\$156 M

Massachusetts' Solar for All Award—the largest award size for "medium programs"



All funding will support implementation of solar that will benefit qualifying households



Funding will expand access to solar for "**Low Income and Disadvantaged Communities**" over the next 5 years



Projects funded by SFA must provide a minimum **20% savings** through bill credits or direct non-financial benefits to participating households.



SFA is aligned with MA's **solar targets, environmental justice objectives**, and ongoing reassessment of state **solar policy**

Direct Financial Assistance

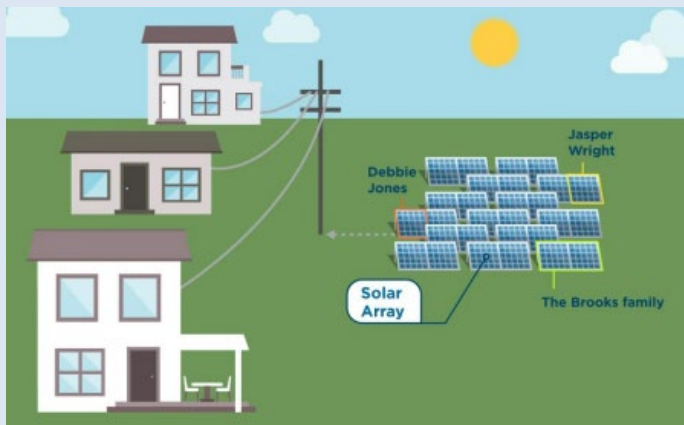
1. Small Residential Solar
2. Multifamily Affordable Housing-Sited Solar
3. Community Solar

Supporting Initiatives

1. Education and Outreach
2. Workforce Development
3. Enabling Upgrades
4. Technical Assistance

Community Shared Solar

- MA SFA Program includes funding to enable community solar that delivers enhanced benefits to LIDAC customers
- A residential-serving CSS array can be up to 5 MW, and must deliver at least 50% of benefits to residential customers in the same utility territory
- MA's approach includes carve outs and support for innovative community ownership models and projects in Municipal Light Plant territories



- Solar array on the former Palmer Metropolitan Airfield
- Four public entities directly benefit from the project:
 - Town of Palmer
 - Town of Leicester
 - Town of Spencer
 - Worcester State University

Looking to the Future

Solar Potential for Landfills/Brownfields:

Land Use Type	Rooftop	Canopy	Ground	Total
Landfill	0.1	0.3	~1.2	1.6
Brownfield	0.3	0.4	0.7	1.4

Highly suitable solar potential per county, normalized by population:

