

Powering Maryland's Future

State Energy Programs: U.S. Experience

• Kyle Haas - Clean Energy Program Manager



MEA's Mission

 Promote affordable, reliable, clean energy. MEA's programs and policies help lower energy bills, fuel the creation of green collar jobs, address environmental and climate impacts, and promote energy independence.



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Policies and Programs

Effective legislation, industry development and incentives

Guiding Legislation and Regulations

- Renewable Portfolio Standard
 - Goal of 20% electricity from renewable sources by 2022
 - Retirement of Renewable Energy Credits (REC)
 - One MWh of electricity = One REC
- Empower Maryland
 - 15% reduction in per capita energy intensity by 2015
 - Baseline is 2007



Program: Game Changer Grants

- Provide funding for commercially proven tech.
- Mitigate the costs/risks of these technologies
- Jump start innovative technology industries
- Bring economic benefits to communities
- Promote technologies that contribute to RPS



The Valley of Death



The Valley of Death



Game Changer Project Examples

- Grid scale battery storage project
- Study/report on streamlining permitting and interconnect process for RE projects
- Hydrogen fuel cell demos





CE Grant Program

Residential Grant Amounts

Resource Conversion Technology	Installed Capacity Range	Flat Award
Solar Photovoltaic (PV)	1-20 kW	\$1,000/project
Solar Water Heating	10-100 sq. ft.	\$500/project
Geothermal Heating & Cooling (GHC)	1-10 tons	\$3,000/project





Small Business Grant Amounts

Resource Conversion Technology	Installed Capacity Range	Award/Capacity Unit
Solar Photovoltaics (PV)	1-99.99 kW	\$60/kW
Solar Water Heating (SWH)	50-249.99 sq. ft.	\$20/sq. ft.
Geothermal Heating & Cooling (GHC)	1-24.99 tons	\$180/ton
Wind	Please see the Windswept Grant Program page.	

Low Cost Efforts

>> Industry development and guidance

Industry Development and Guidance



- Many clean energy industries are in their infancy
 - Are not organized to advocate on their own behalf
 - Don't have a single message to deliver to public
- Industry associations can help!

Leveraging Expertise



Government experts guide private businesses
Explain regulatory barriers, financing, etc.
Provide easy to use guidebooks, FAQ sheets

A good approach...

- 1) Map the industry
 - Actors, stakeholders, etc.
 - Relationships, dependencies
 - Mature markets in other countries/similar industries

2) ID opportunities/barriers

- What is preventing growth?
- What "easy wins" are out there?

- 3) Set your goals
 - RPS? Legislative mandate? Other?

4) Copy, steal, improve

- Use what has worked abroad
- Learn the lessons they didn't
- Improve on their models



Good Artists Copy, Great Artists Steal.







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Thank you!

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