

Manufacturing, Material Resources, and Impacts on the Nation's Economy

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Breakout Session Goal

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The goal of this session is to work collaboratively to answer the following questions for this report chapter:

- Define a five year strategy
- Identify specific needs and actions
- Lay out roles and responsibilities
- Determine a split between federal, state and private funding.

The desired result is the skeleton of an action plan, what activities will be needed to make 20% wind by 2030 a reality.

Current budget Background

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AWEA Proposed Federal Spending: Manufacturing,
Resources and Economic Impacts; FY08-FY13

FY	Proposed Budget (\$m)	Total proposed federal Program budget (\$m)
08 (actual DOE)	0.8 (2%)	49.5
09 (proposed)	8.0 (8%)	89.175
10 “	10.0 (8%)	120
11 “	11.1 (9%)	121
12 “	11.1 (9%)	117
13 “	11.1 (10%)	109

The Federal program does not have a specific line item for this area nor does it have formal long term budget projections, however spending in this area is estimated to be \$0.8 M in FY08

- Expand U.S. Manufacturing Capability for Components and Turbines
 - Conduct outreach to communicate the opportunities and benefits
 - Define and establish appropriate policy incentives
- Improve availability of critical materials: e.g., high-strength permanent magnets, core, carbon fiber
- Expand skilled labor force for manufacturing, installation and operation
- Expand engineering and scientific work force for product improvement and technology advancement
- Quantify and communicate the export opportunity and facilitate expansion of export capabilities
- Refine the analysis of contributions to the economy and jobs.

Identify specific needs and actions

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For each issue identified in the previous slide – identify specific needs and actions to address the issue. Use causal relations to develop an initial timeline

Following the identification of Actions – who's action is it? In most cases although one organization will lead, others will play a role. Identify fiscal estimates for each activity.

Define a five year strategy – Duration, Roles & Responsibilities

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Key Issues	Duration of Activity	Roles and Responsibilities
Expand U.S. Manufacturing Capability for Components and Turbines	Ongoing	
Improve availability of critical materials	Ongoing	
Expand skilled labor force for manufacturing, installation and operation	Ongoing	
Expand engineering and scientific work force	Ongoing	
Quantify and communicate the export opportunity	2 years	
Refine the analysis of contributions to the economy and jobs support.	2 years	6

Define a five year strategy - Funding

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Key Issues	Funding	Funding (%)		
	\$ M	Federal	State/Other	Private
Overall based on 2007 SPM				
Expand U.S. Manufacturing Capability for Components and Turbines				
Improve availability of critical materials				
Expand skilled labor force for manufacturing, installation and operation				
Expand engineering and scientific work force				
Quantify and communicate the export opportunity				
Refine the analysis of contributions to the economy and jobs support.				

*See Technology Program for Manufacturing R&D

** ¾'s comes from Technology Program

*** Portion of contributions as in-kind use of data