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MIDWESTERN
GOVERNORS
ASSOCIATION

Jobs+
Energy
Forum

MGA





- Established 1939 - Bismarck, ND
- Associate Degrees & Certificates
- National Energy Center of Excellence
- Energy programs offered > 33 Years
- Online energy programs with robust simulation
- Students in 50 States + International
- Customized Training & Apprenticeships





National Energy Center of Excellence

- ✓ Power Generation
- ✓ Renewable Generation (pending approval)
- ✓ Nuclear Power
- ✓ Transmission & Distribution
- ✓ Transmission System Operations
- ✓ Instrumentation & Controls
- ✓ Process Technology – Refining, Ethanol, Biofuels, Petrochemical, Food Processing
- ✓ Bachelor of Applied Science Energy Management



MGA Jobs Platform Education Summary

- Education & Training needed for Energy Roadmap:
 - ✓ Energy Efficiency
 - ✓ Bio-economy & Transportation
 - ✓ Renewable Electricity – generation, distribution, transmission and storage
 - ✓ Advanced Coal with Carbon Capture & Sequestration



Educational Challenges New Energy Economy

- Expensive to offer high quality technical programs
- Funding limitations in many states
- Lack of technical programs & expertise in some locations
- Programs at different levels - various standards
- Difficult & expensive to recruit faculty with expertise in technical areas



MGA Jobs Platform Education Summary

- Goal #1:

Adopt and align energy, economic, and workforce policies that position the Midwest region to compete with other areas and to create and retain jobs in the new energy economy.



MGA Jobs Platform Education Summary

- Strategy #4:

Leverage and improve the region's workforce development, education and training infrastructure to position the Midwest as a leader in skills development and career advancement for jobs in the new energy economy.



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Strategy #4 – State Policy Options

- ✓ Strengthen educational capacity &/or develop community college technical programs for new energy jobs
- ✓ Optimize linkages between all levels of education, job training, pre-apprenticeship and apprenticeship
- ✓ Create new energy partnerships – government, industry, labor, education & community based organizations



MGA Jobs Platform Cooperative Regional Agreements

- Map and share information on Midwest region's assets, including:
 - ✓ Key sectors of region's economy
 - ✓ Current & future jobs in new energy economy
 - ✓ Existing skills analysis
 - ✓ Existing education & training analysis

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Cooperative Regional Agreements

- Establish Regional Training Standards and Portable Credentials
 - ✓ Increase capacity for teachers and instructors with experience in new energy curricula
 - ✓ Collaboration between colleges, labor, industry & community organizations to develop career pathways
 - ✓ Align standards and credentials for emerging technologies
 - ✓ Creation of regional information clearinghouse with jobs, education & training



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