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Advanced Energy
Business Council

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What is advanced energy?

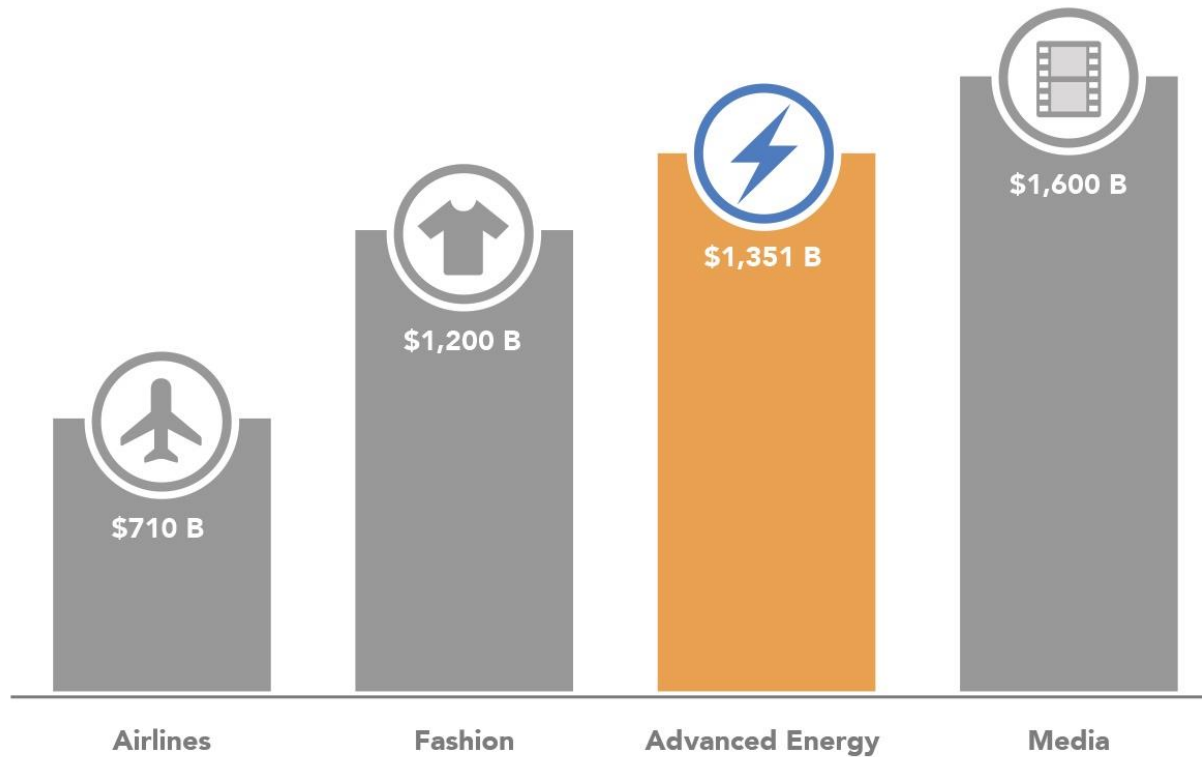


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Advanced Energy Economy

- Advanced energy nearly **\$1.4 trillion** global market (2015)
- U.S. market reached **\$200 billion** (2015)



Source: Navigant Research for Advanced Energy Economy

Advanced Energy Economy



First ever back-to-back State of the Year winner for economic development

#2

State for jobs created through FDI in 2013
IBM's Global Location Trends Report

#1

Certified Sites and Shovel-Ready Programs
Area Development

#1

Overall Infrastructure and Global Access
Area Development

#1

Automotive Manufacturing Strength
Business Facilities



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TN Companies Seize Advanced Energy

- **Volkswagen** turns on Tennessee's largest solar park in Chattanooga
- **Nissan** begins assembly of 2013 LEAF and batteries
- **Alcoa**, high-strength aluminum for North American automakers to lightweight vehicles
- **FedEx**, commitment to increase fuel efficiency by 30%
- **Alstom**, cutting-edge clean energy manufacturing, LEED Gold certified, solar array canopy
- **Wampler's Farm Sausage**, world's first biomass-to-energy-gasification CHyP system



What is the Tennessee Advanced Energy Business Council?



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Board of Directors



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Members



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TAEBC champions advanced energy as a job creation and economic development strategy.

- We **educate** public officials and business leaders about Tennessee's advanced energy assets,
- Establish **partnerships** to connect assets with opportunities,
- Inform policy that **expands and strengthens** the industry.



Advanced Energy Asset Inventory



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Asset Inventory: TN Energy Education Initiative



Tennessee's Advanced Energy Asset Inventory

Edition 1
Energy Efficiency, Renewable
Energy And Energy Management

Tennessee Advanced Energy Business Council
in partnership with the Tennessee Energy Education Initiative

September 2013



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Asset Inventory: Asset Compilation

- Tennessee's unique advanced energy assets
 - Advanced Energy Technology Innovation
 - Economic Development & Trade Associations
 - Entrepreneurial Assets
 - Advanced Energy Workforce Training
 - Advanced Energy Incentives



Asset Inventory: Conclusions

Economic assets unique to Tennessee will shape opportunities for the industry. Cooperation is key to expand our advanced energy economy.



Asset Inventory: Conclusions



- Growth of manufacturing base
- Efforts to reduce emissions
- Dual purpose mission
- Scope of its energy portfolio



Asset Inventory: Conclusions



- Nation's largest energy research institution
- Partnership with UT
- Expertise in advanced energy technology innovation

Asset Inventory: Conclusions

(Major Industry)

- Auto Manufacturing



- Nissan LEAF assembly & battery manufacturing
- Volkswagen Solar Park
- DENSO
- Alcoa



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Economic Impact



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TN Advanced Energy Economic Impact



Tennessee Advanced Energy Economic Impact Report

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June 2015

Research conducted by The Howard Baker Jr. Center for Public Policy
at the University of Tennessee



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TN Advanced Energy: Employment

- Nearly 325,000 workers
- Total payroll of \$15.9 million
- Average salary of \$48,764 well above state average



TN Advanced Energy: State Economy



- More than 17,000 business establishments
- Contribute \$33.4 billion to state GDP
- \$820M in sales tax payments to local, state government



Questions?



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Tennessee Advanced Energy Asset Inventory

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