



arkansas
advanced
energy
foundation



UNIVERSITY OF
ARKANSAS
SAM M. WALTON
COLLEGE OF BUSINESS

Applied Sustainability
Center

 **ARKANSAS**
Economic Development Commission
ENERGY OFFICE

EJE Panel Discussion: Energy Efficiency



Background

- The Arkansas Advanced Energy Association (AAEA) is the business voice for advanced energy in Arkansas. AAEA is dedicated to growing Arkansas's economy through expanded utilization of advanced energy technologies, including energy efficiency, demand response, and smart grid - innovations that make our energy supply more secure, clean and affordable.
- AAEA includes more than 80 businesses and institutions and represents about 11,300+ advanced energy jobs in the state. Many of our companies are delivering the energy savings equipment and services that are enabled through the **Arkansas Energy Efficiency Resource Standard (EERS)**.

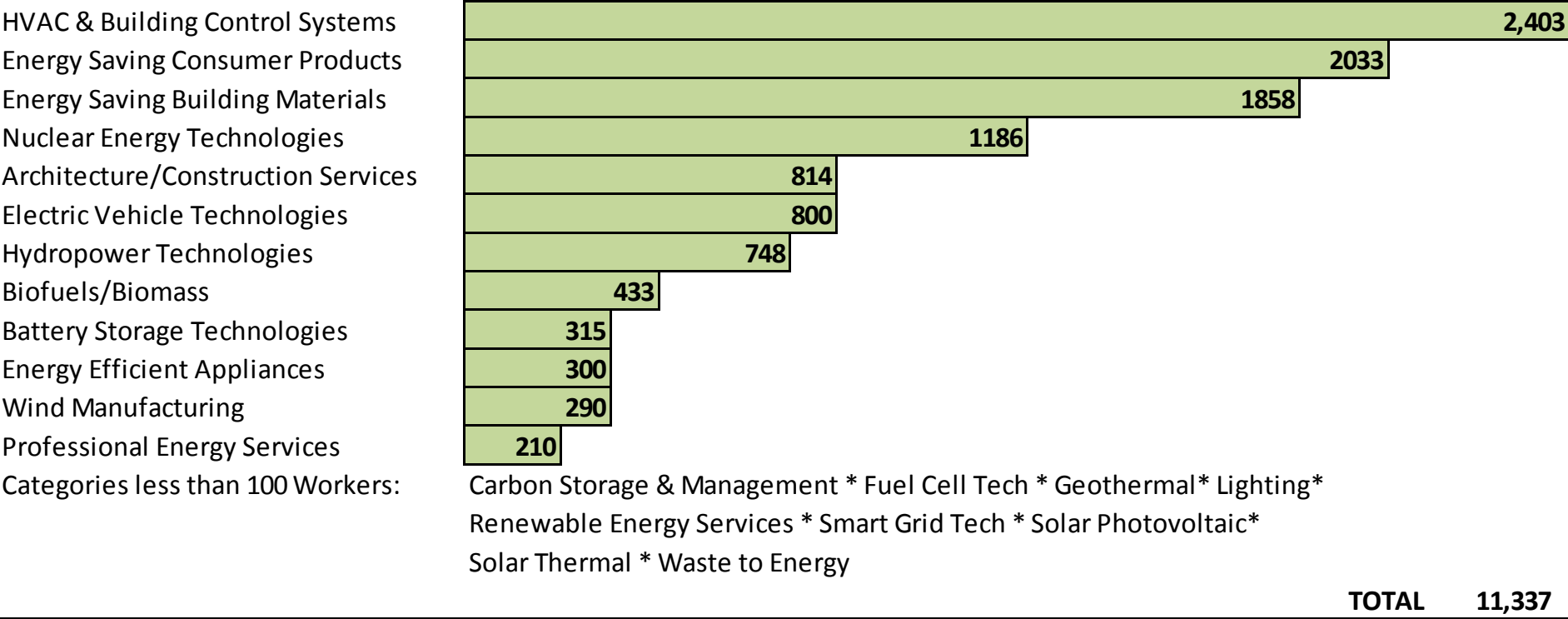
What is Advanced Energy?

Advanced energy can be defined as any service or technology that makes America's energy supply more secure, clean and affordable.

This can include but not be limited to:

- Biofuels and BioProducts
- Compressed Natural Gas and other clean burning fuels
- Energy Efficient Buildings
- Smart Grid Technologies
- Geothermal
- Hydropower
- Nuclear
- Solar
- Wind
- Energy Storage

Advanced Energy Employment in Arkansas - 2010



SOURCE: AEEI Analysis of Battelle-Brookings Labor Census Database.

2013 Champions of Advanced Energy

Senator David Johnson

Senator Larry Teague

Representative Jonathan Barnett

Representative Greg Leding

Representative Lane Jean

2013 Friends of Advanced Energy

Sen. Linda Chesterfield * Sen. Uvalde Lindsey

Sen. Jon Woods * Sen. David Wyatt

Rep. David Branscum * Rep. James McLean

Rep. Stephen Meeks * Rep. Mark Perry

Rep. Warrick Sabin

Arkansas EERS - Comprehensive Framework

- In 2010, the APSC required electric and gas IOUs to submit “*comprehensive*” plans to achieve new, rising energy savings goals over the next three years (2011-2013).
- Opened docket in 2013 to continue and enhance utility EE programs; AAEA granted intervening status.

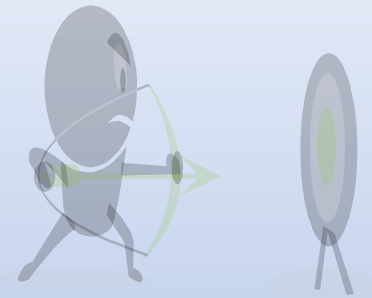


Energy Savings Target

- Energy savings target % of retail kWh or therm sales volume:

	2011	2012	2013	2014	2015
Electric	.25	.50	.75	.75	.90*
Gas	.20	.30	.40	.40	.50

*The baseline for targets starting in 2015 is total 2013 kWh sales. Baseline for prior years are total 2010 kWh sales. 2016-2017 targets pending completion of the Arkansas Energy Efficiency Potential Study.



Energy Savings Success

Utility	2011 Reported Savings	2012 Reported Savings	2013 Reported Savings
Entergy Arkansas	41,958	107,627	188,557
SWEPCO	10,955	17,767	25,387
Oklahoma Gas & Electric	4,985	125,552	13,411
Empire	3	158	177
Total savings (all IOUs)	63,340	126,681	227,532
% of target achieved	91%	99%	100+%

Source: Utility Annual Reports. Energy savings are net savings as reported by utilities (mWh).

<http://www.apscservices.info/>



Entergy Arkansas

Entergy Energy Efficiency Programs

Residential Programs

- Residential Appliances Program - For Your Home
- Home Energy Solutions Program
- Cool Saver Residential A/C Tune-Up Program
- Arkansas Weatherization Program for Severely Energy-Inefficient Homes

Commercial EE Programs

- Small Business Energy Solutions Program
- Large Commercial & Industrial Custom Program
- CoolSaver© Small Commercial Program
- Large Commercial and Industrial Custom Program
- Large Commercial & Industrial Energy Prescriptive Program
- Large Commercial & Industrial Demand Response Program

Cities, Counties, and Schools

- CitySmart Program

Agriculture

- Agricultural Irrigation Pump Load Control Service

Energy Efficiency Tool Box - Arkansas

- 2013 Legislature enacted AAEA-backed Property Assessed Clean Energy Act (PACE) removing EE financing barriers for commercial property owners – Two cities have already adopted PACE ordinances in 2014;
- Legislature also enacted Energy Performance Contracting Act in 2013 allowing state agencies to finance EE improvements – Program rules due for adoption in August, 2014;
- Arkansas Public Service Commission seeking to establish at least a one percent annual energy savings goal through EE programs.
- Arkansas Energy Office launched loan loss reserve program to encourage utilities to implement on-bill financing programs for residential customers to purchase EE improvements – July, 2014
- Energy Building Code Update to 2009 IECC (Fayetteville City Code; Mostly voluntary statewide) – July, 2014

