

Energy Efficiency in the Agricultural Sector: A New Market Transformation Opportunity?

Elizabeth Brown
Research Assistant, Industry Program
ACEEE
Market Transformation Symposium
April 14-15, 2003
Capital Hilton, Washington, DC

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

Electricity Use in Sector

- National: 37000 million kWh
3.2% of Industrial Electricity Use
- Large variance at state level:
 - Colorado - 10% of state industrial electricity use
 - New York - 1.55% of state industrial electricity use

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY



Opportunities for Electric Efficiency

- Irrigation:
 - Pumps
 - Water Measurement
- Lighting
- Ventilation Fans
- Other Motors

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY 

Extant Programs: The ACEEE Survey

- Fall 2002
- Purpose: survey and identify programs that encourage energy-efficiency to support development of USDA Ag energy program
- All programs have undergone or are planned to undergo measurement and evaluation (M&E) review

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY 

Status of USDA Energy Program

- Section 9006 of the Farm Bill
- NOFA
- Regulation writing
- Federal Budget?

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY 

Extant Programs

- 34 Programs by 23 different entities
- Programs have diverse geographical distribution and funding base
- Program Types: MT, rebate, education, R&D

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY 

Sector Specific Challenges

Barriers similar to the industry sector

- Disaggregated nature of sector
- Lack of Education
- Lack of Priority of Electricity Saving
- Lack of Delivery Infrastructure
- Many small energy consumers

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY 

Market Transformation?

- Will a market transformation approach work in this sector?
- Do MT programs have what is needed to deliver service to the agricultural sector?
- What types of initiatives would be successful in this sector?
- What is the goal of market transformation for this sector?
- Are there specific aspects of the industry that should be targeted for market transformation?
- Should programs partner with rural groups to facilitate delivery of energy efficiency programs?

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY 

Contact Information

Elizabeth Brown
Research Assistant
ACEEE
lbrown@aceee.org
(202) 429-8873 ex 716

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY 