

ACEEE Forum on Energy Efficiency in Agriculture

Exemplary Agricultural Energy Efficiency Programs

Presented by:

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EnSave was awarded the 2005 Champion of Energy Efficiency Award by the ACEEE, for leadership and innovation in the design and delivery of energy efficiency programs for America's farms.



About EnSave

EnSave supports the American agricultural sector with innovative energy conservation and pollution prevention programs. EnSave provides agricultural producers and food processors with cost-effective ways to reduce operating costs while saving energy and reducing pollution.



Agenda

- Components of a program/lessons learned
- New York Variable Speed Drive Farm Program
- Minnesota Farm Energy Conservation Program
- California Multi Measure Farm Program

Planning

Initial considerations

1. Available funding
2. Agricultural sub-sector(s) to serve
3. Energy and demand savings goals
4. Technologies/services to provide
5. Resources – people, systems, qualifications etc...
6. Program time frame – months, years?

Market Research

How are agricultural customers identified?

- USDA – National Agricultural Statistics Service
- State Departments of Agriculture
- State Departments of Natural Resources
- Farm Bureaus – state and local
- Associations

Market Research/ Creating Partnerships

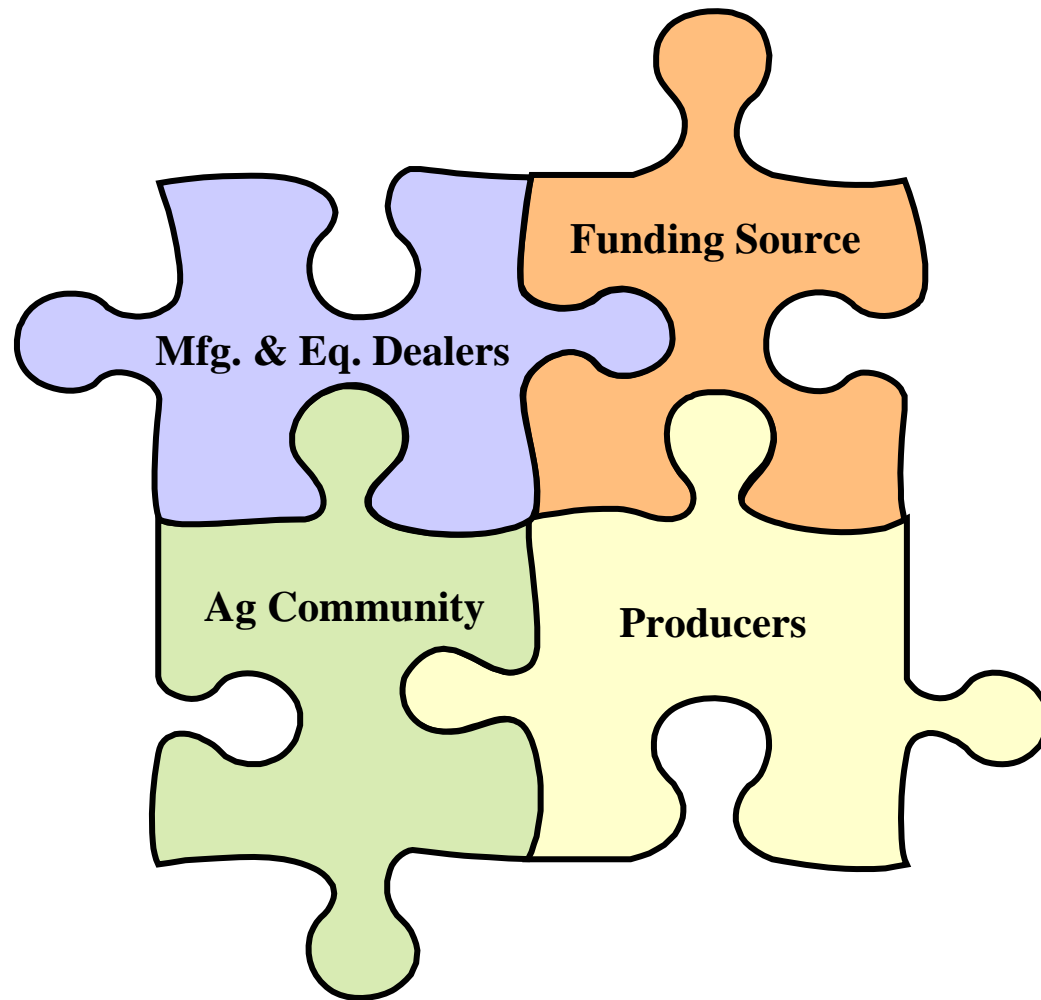
- Equipment Manufacturers
 - Determine the level of market penetration
 - Identify the network of dealers
- Equipment Dealers
 - Measure the need for a program
 - Confirm market penetration
 - Determine the number of customers served

Market Research/ Creating Partnerships

Involve the Agricultural Community:

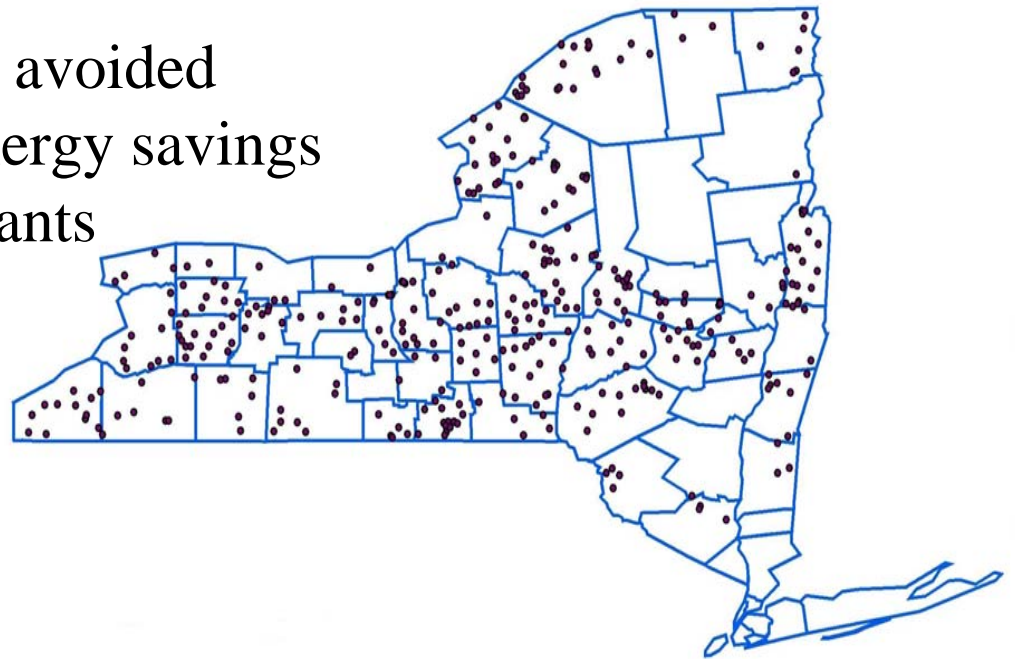
- Branches of USDA
- Cooperative Extension Services
- Farm Bureaus
- Associations





New York State Variable Speed Drive Farm Program (funded through NYSERDA)

- ✓ 10 million kWh saved
- ✓ 2.92 tons of NO_x emissions avoided
- ✓ \$1.2 million in first-year energy savings
- ✓ 572 dairy producer participants



2003 Minnesota Farm Energy Conservation Improvement Program

- Cash incentives offered on six measures
 - 100 agricultural energy audits completed
 - 100 farmers educated about hazards of mercury on the farm
 - 2,000 Energy Star CFLs provided, along with education on Energy Star label
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- ✓ 4 million kWh saved
 - ✓ \$265,000 in first-year energy savings



California Multi Measure Farm Program

From 2003-2005 EnSave has operated two statewide programs under third-party solicitations for Pacific Gas & Electric and Southern California Edison. Combined results to date:

- Cash incentives offered on five measures
- 167 producers participating to date
- ✓ 7 million kWh saved
- ✓ 1,274 kW saved
- ✓ \$1,050,000 in first-year energy savings

This program will operate in PG&E's service territory from 2006-2008, pending final approval of EnSave's implementation plan.



Thank You

Let's talk more about energy in agriculture!

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