

## 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

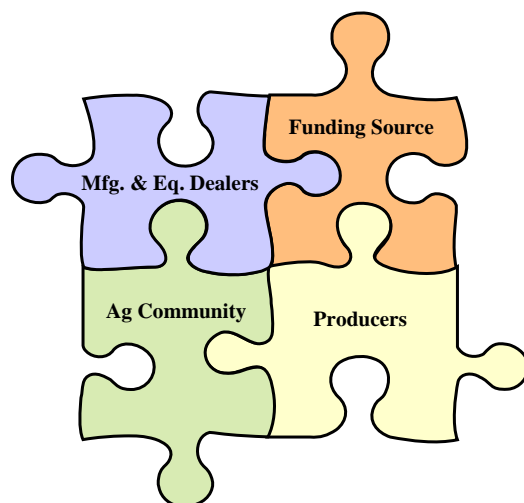
- Equipment Manufacturers
  - Determine the level of market penetration
  - Identify the network of dealers
- Equipment Dealers
  - Measure the need for a program
  - Confirm market penetration
  - Determine the number of customers served



## Market Research/ Creating Partnerships

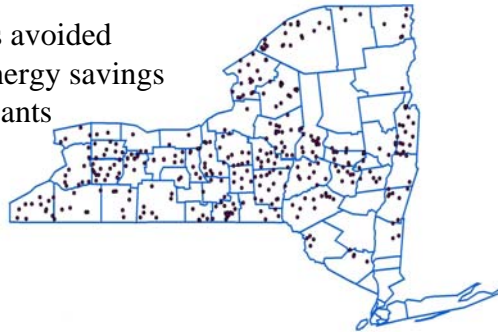
Involve the Agricultural Community:

- 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<sub>x</sub> emissions avoided
- ✓ \$1.2 million in first-year energy savings
- ✓ 572 dairy producer participants



**EnSave**

## 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

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## 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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