



#### Overview

- Summary of Iowa energy efficiency programs of Interstate Power and Light Co. (IPL), an Alliant Energy Company
- Features of IPL's Iowa Agriculture Program
- Review of KEMA's measurement and evaluation of IPL's Iowa Agriculture Program for the 2006 calendar year — A Comprehensive Approach to Improving Agriculture Programs





## IPL Iowa – Alliant Energy Program Summary

- Regulated investor-owned utility
- Current IPL Iowa energy efficiency (EE) programs

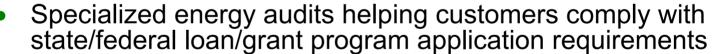
Product / Service Name	Description	Res	Sm Bus	Ag	C & I
Home Energy Audits	On-site energy efficiency (EE) audit	х			
Load Mgmt - Appliance Cycling	Remote control of AC/water heater	х			
Low Income EE Programs	Equipment rebates, education and weatherization	х			
New Home Construction	Incentives for EE construction of new homes	X			
Appliance Recycling	Safe disposal of secondary appliances	X	X		
Low Interest Financing	Low-interest financing for EE equipment	X	X		
On-line Energy Audit	Online EE audit tool	X	X		
Prescriptive Rebates	Standardized rebates for EE equipment	x	X	X	X
E-Communities (pilot)	Incentives for community-wide EE plan	X	X	X	X
Commercial New Construction	Design assistance, incentives for new buildings		X	X	X
Custom Rebates	Rebates for EE projects		X	X	X
Performance Contracting	Financing/project mgmt for EE projects		X	X	X
Farm Energy Audit	On-site EE audit			X	
Business Energy Audits	On-site EE audit		X		
Solutions Center	Customer EE newsletter		X		X
Building Operator Certification	Training for facilities managers				Х
Feasibility Studies	Specialized study on EE potential in facility				X
Load Mgmt - Interruptible Program	Credits for load curtailment	·			X



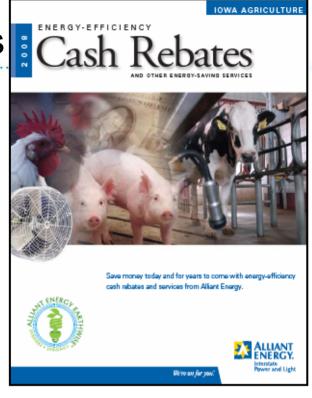


#### IPL Iowa Ag Program Features

- Dedicated ag field representatives
- Ag-specific prescriptive rebates
  - Includes trade ally incentive spiffs
- Custom rebates
- Free, whole-farm energy audits



- e.g., USDA 9006 grant/loan applications
- Implementation assistance
  - Referrals to qualified contractors
  - New equipment comparisons
  - Recommendations of higher efficiency equipment

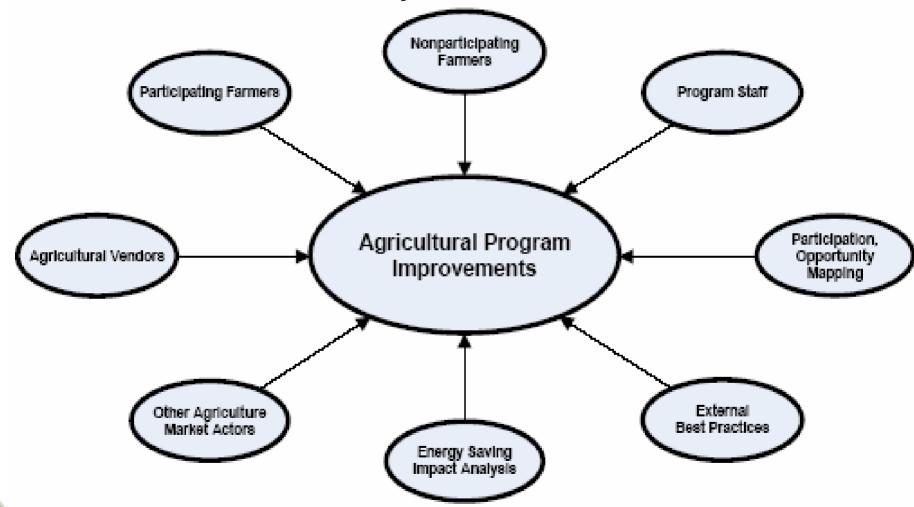






# Information For Program Improvements Comes From Manua

**Comes From Many Sources** 







#### Surveying Participating Farmers

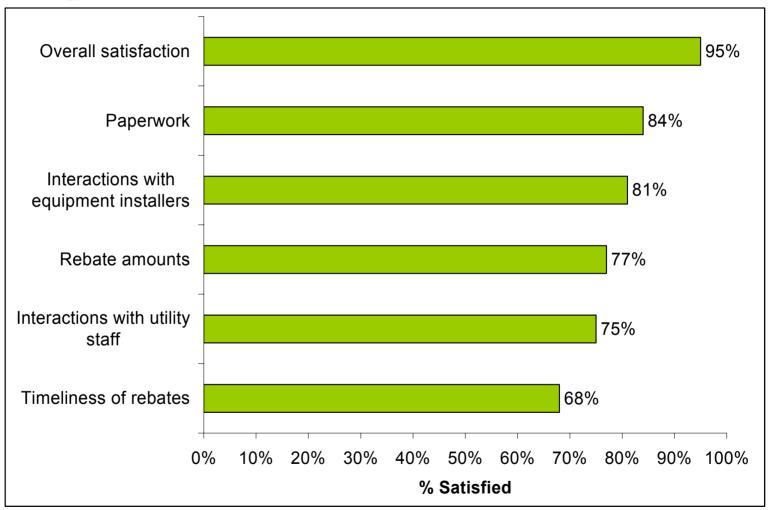
- Program satisfaction
  - Need to ask about various program processes, not just overall satisfaction
- Barriers to future EE implementation
  - Will help determine future program funding priorities (e.g., \$ for rebates vs. \$ for audits/education)
- Marketing preferences
  - Sometimes have different preferences than non-ag participants (61% of participating farmers preferred bill inserts for program info. vs. 46% for non-ag participants)





# Surveys of Participating Farmers:

# **Program Satisfaction**

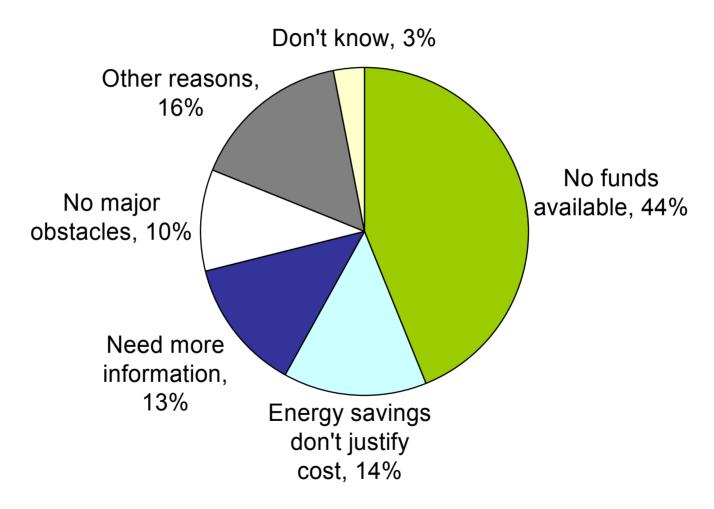






# Surveys of Participating Farmers:

# Main Barriers to Future EE Projects









### Surveys of Non-participating Farmers

- Why they're not participating
  - Usually due to lack of awareness
- Where they get their information
  - Useful for marketing program
- Attitudes toward EE, EE implementation barriers
  - If these are different than those for participants, may need new strategies to get new participants
- "Farmographics" shows what types of farmers not participating

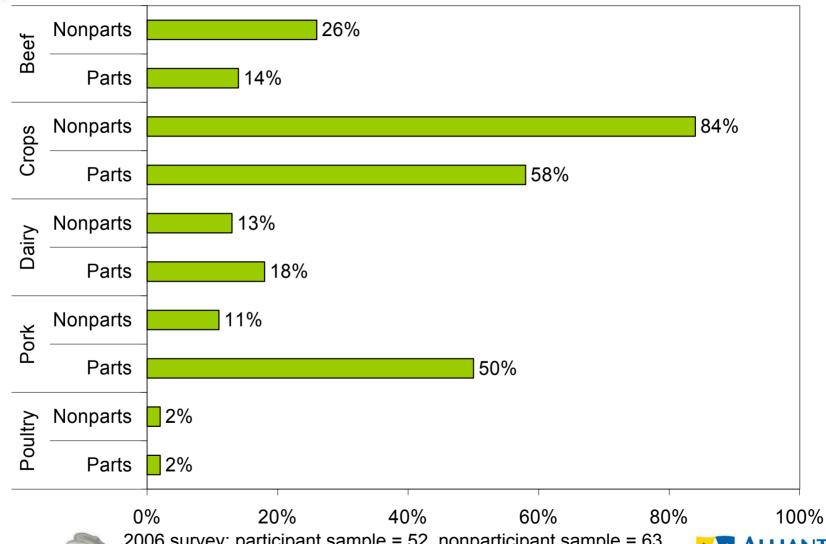






# Type of Farming:

# Participants vs. Nonparticipants



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# Surveying Agricultural Vendors,

#### Other Market Actors

- Vendors (participating and non-participating) (2007)
  - Awareness of program offerings
  - Sufficiency of rebates, SPIFFs
  - Satisfaction with program processes
  - Barriers to participation
- Other market actors (2007)
  - Rural bankers
  - Ag extension agents
  - USDA grant administrators
- How can we better work together to reach, help more farmers become energy-efficient?





#### **Interviewing Program Staff**

- Program managers
- Field staff
  - Important to interview as many field reps as possible
    - Field reps work in different ag sectors and regions
    - New field reps may have different perspectives than more experienced ones
- Trade account representatives
  - Keyed into vendor needs





#### **Energy Savings Impact Analysis**

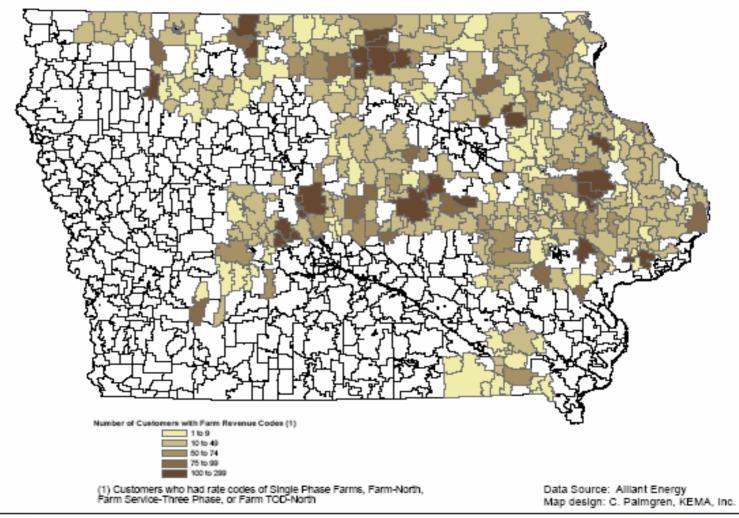
- Periodically review engineering algorithms
  - What engineering algorithms are we using?
  - What algorithms are other programs using?
  - What changes are needed to insure that energy savings assumptions reflect latest information?
- Audit tracking databases
  - Are the correct energy savings estimates being recorded in the program databases?
  - Are there missing values?
- Online agriculture audit tools
  - Are these producing reliable savings estimates?





### Maps of Potential Participants

#### Number of Customers with Farm Revenue Codes per ZIP Code

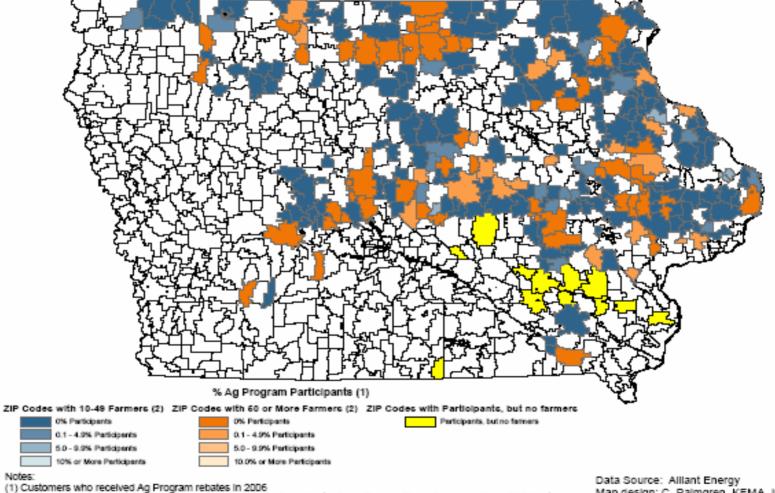






## Maps of Participation Levels

#### Areas for Potential Increased Program Participation Rates for ZIP Codes with 10 or More Farmers in 2006



Notes:

2) Customers who had rate codes of Single Phase Farms. Farm-North, Farm Service-Three Phase, or Farm TOD-North

Map design: C. Palmgren, KEMA, Inc.





# Interviews with Other Ag Program Managers

- Best practices
- Lessons learned
- Benchmarking comparisons
  - Energy savings goals
  - Number of ag field reps per ag customer
- Challenges
  - Hard to find similar external ag program
  - Some ag program implementation contractors view methods, lessons learned as proprietary info





#### Thank You

- For information on Alliant Energy Programs
  - www.alliantenergy.com/ag
  - 1.866.ALLIANT (1.866.255.4868)



