



MINNESOTA DEPARTMENT OF
COMMERCE

2015 Energy Design Conference

Growing Efficiency with the Seeds of Conversation:
Applied Research and Development

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History & Background

Conservation Applied Research & Development

CARD purpose to help MN utilities achieve the annual 1.5 % savings goal by:

- *Identifying new technologies or strategies to maximize energy savings;*
- *Improving effectiveness of energy conservation programs;*
- *Documenting CO₂ reductions from energy conservation programs.*

Minnesota Statutes §216B.241, Subd. 1e.

Current Activities

- Develop and post annual RFPs for general and specific topics
 - Managing a portfolio of over 80 R&D projects
 - Updating web site to access information
 - Outreach to utilities and other stakeholders through meetings, conferences and webinars
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Today's CARD Projects

- **Grantee:** Energy Center of Wisconsin
 - **Investigator:** Scott Pigg
 - **Project:** Improving installation and maintenance practices for Minnesota residential furnaces, air conditioners, and heat pumps
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Today's CARD Projects

- **Grantee:** Cold Climate Housing Program
University of Minnesota
 - **Investigator:** Pat Huelman
 - **Project:** Monitored performance of installed residential ground source heat pumps (GSHP) in Minnesota
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Today's CARD Projects

- Grantee: Center for Energy and Environment
 - Investigator: Dave Bohac
 - Project:
 - Demonstrating the Effectiveness of an Aerosol Sealant to Reduce Multi-Unit Dwelling Envelope Air Leakage
 - Commercial Condensing Boiler Optimization
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