ComEd Energy Efficiency Emerging Technologies

Steven LaBarge 2/28/2020









ComEd Emerging Tech overview

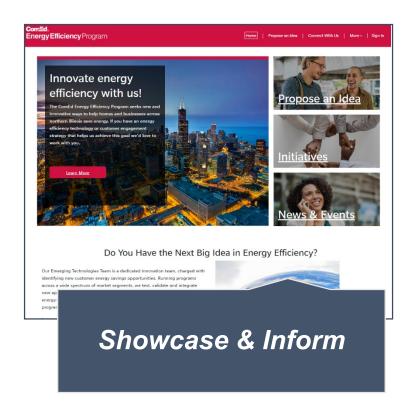
- ✓ Purpose: Identify, test, validate and integrate the next generation of energy efficiency technologies and program delivery strategies into the ComEd EE portfolio
- ✓ Goal: Drive the evolution of the ComEd EE portfolio so that it continues to meet customer needs and energy savings targets cost-effectively
- ✓ How we work: Partner with organizations to identify, research and pilot impactful technologies and new program designs from across the industry



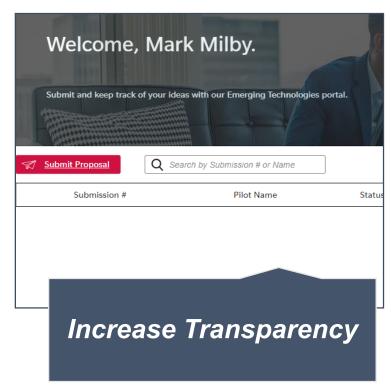
Activity update



Public website & submission portal



Pages for background, past and current projects, upcoming solicitations, proposal submission guidance and FAQs



Users who create a profile have a dashboard that tracks submission status

Proposed Name

What kind of project are you proposing? Only one may be selected.

New Technology
Program Design
Market Outreach
Market Research

What market segment would this serve? Only one may be selected.

Income Eligible Residential
Industrial
Public Sector
Commer
Resident

Simplify & Organize

Submit Your Idea

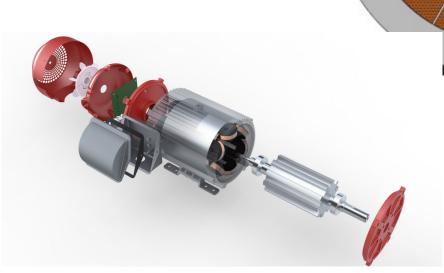
Simplified portal makes the submission process accessible for many types of submitters and manageable for our team

www.ComEdEmergingTech.com



Switched Reluctance Motors

- ✓ Old design enhanced by new technology breakthroughs
- √ High efficiency motors at small sizes (1-10 HP)
 - More efficient and simple motor design
 - Same dimensions as existing motor stock
 - Cheaper production cost
 - Integrated VFD controllability



Switched Reluctance Motors

- ✓ Multiple applications
 - RTU supply fan motor replacement efficient fan motor can reduce HVAC costs
 - Industrial conveyor motors motors can sense load and reduce power usage when no product is present to be moved
- ✓ Collaboration with National Renewable Energy Laboratory (NREL)
 - Simulation Study comparing multiple rooftop unit retrofit/replacement options across 6 different building types
 - Developing Lab test procedure for industrial conveyor motors
- ✓ Initial results show 25-40% HVAC energy savings in RTU applications
 - Future pilot in-field demonstrations planned

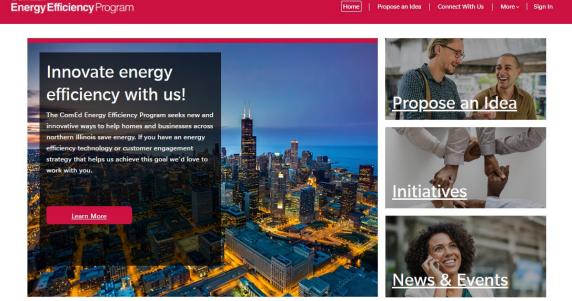
Contact

EmergingTech@ComEd.com

Sign up at www.ComEdEmergingTech.com



Steven.LaBarge@ComEd.com



Which best describes you?

Interested

ComEd



Organization



Individual



ComEd.
Energy Efficiency Program