

# Elevate Energy and New Ecology

Illinois Energy Efficiency Stakeholder Advisor Group  
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# Remote Monitoring and Optimization Services

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# Elevate Energy and New Ecology

- Elevate Energy and New Ecology have been partnering since 2013 to make buildings more efficient, healthy, and resilient
  - Elevate Energy designs and implements programs that reduce costs and protect people and the environment
  - New Ecology works nationally to bring the benefits of sustainable development to the community level



**ELEVATE** ENERGY  
Smarter energy use for all



# Primary Focus of ReMO

- Natural gas and water
- Boiler-based heating and DHW systems, CHP
- Low-cost, system approach
- Single platform, expandable, equipment agnostic
- Delivers actionable intel, not just data
- Better building operation, equipment coordination



# ReMO- Remote Monitoring and Optimization

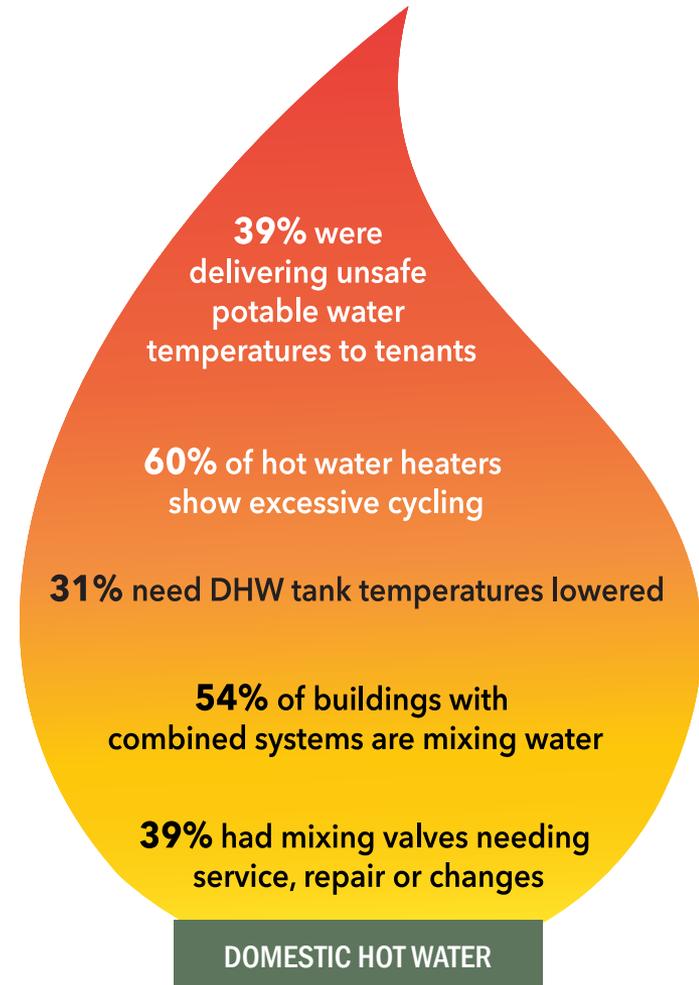
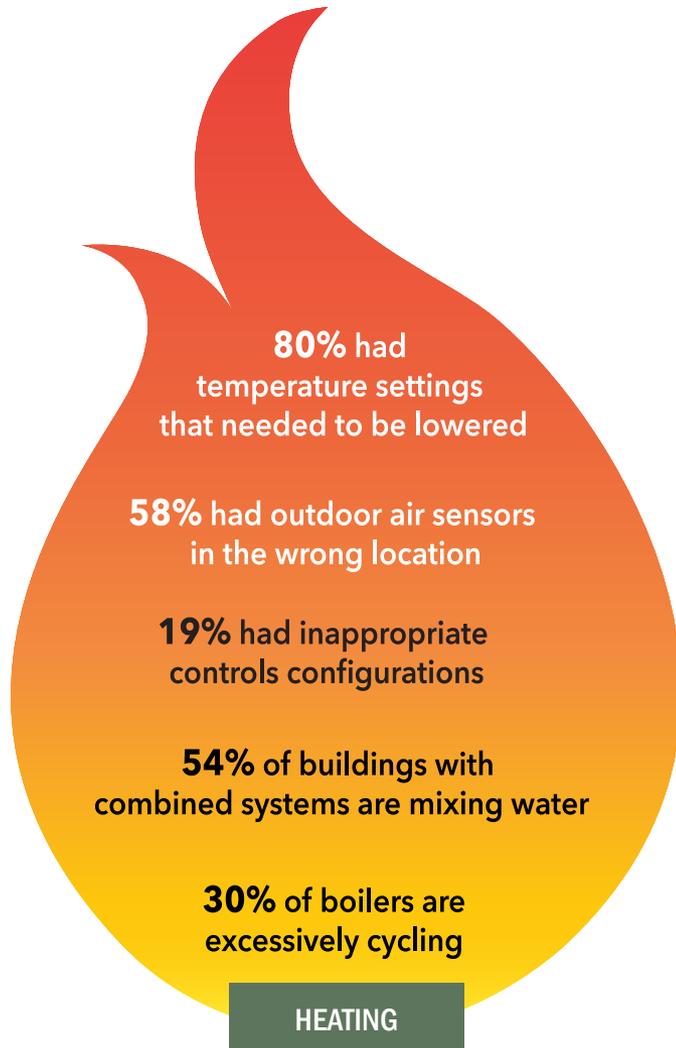
1. Install sensors, collect data, send it to the cloud
2. Analyze the data and identify opportunities to optimize systems
3. Implement and save energy



# Years of Development and Investment

- \$2.85 million investment to date
- 2012
  - Began investigating and testing
- 2016-2018
  - 100+ building pilot
- 2019
  - Launched U.S. DOE Machine Learning Project
  - MA DOER supporting installations for 275 buildings

# Pilot Studies – Key Findings



# Case Study

- Reduced gas use by **16.2%**, 24,271 therms saved in three years
- Improved efficiency, even in a newer building
  - Property managed by national, well-regarded management firm
  - Modular, condensing boilers less than 5 years old
- **Project paid back in 1.6 years**



## Property Description:

- **9-stories**
- **120 Units**
- **120,736 gross square feet**
- **Subsidized multi-family housing**

# Positive Impacts

- Improve existing buildings
  - Energy savings of 5-9%
  - Over 1.2M units of multifamily housing in IL, approximately 50% is affordable
  - Aligns with local and state carbon reduction strategies
- Improve building operations
  - Measures and monitors building performance
  - Improves operation and maintenance
  - Early detection of equipment failure
- Affordable
  - Accessible to buildings that can not afford systems

# Thank you!



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