

EE AS A KEY PART OF CLEAN ENERGY GOALS



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Center for Energy and Environment

PROGRAMS



We cut energy waste while improving comfort in homes, commercial buildings, and communities.

RESEARCH



We identify and explore cost-effective, efficient technologies and ideas through field analysis, modeling, and stakeholder engagement.

CONSULTING



We help building owners and entire communities achieve long-term, energy-saving solutions.

POLICY



We strive for high-impact, pragmatic solutions guided by a public interest ethic.

LENDING



We empower people to make upgrades on energy efficiency and comfort in homes or businesses.

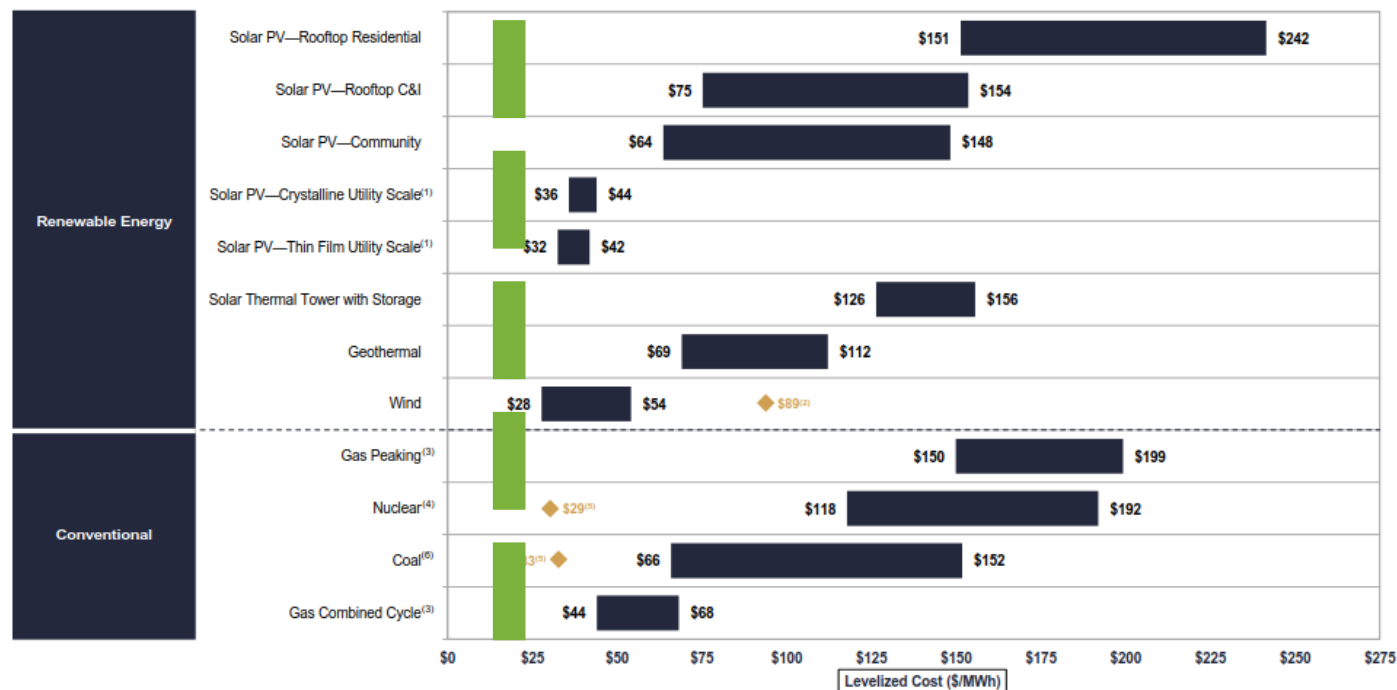


Energy Efficiency

It's the silent hero in our
clean energy transition.

Levelized Cost of Energy Comparison—Unsubsidized Analysis

Selected renewable energy generation technologies are cost-competitive with conventional generation technologies under certain circumstances

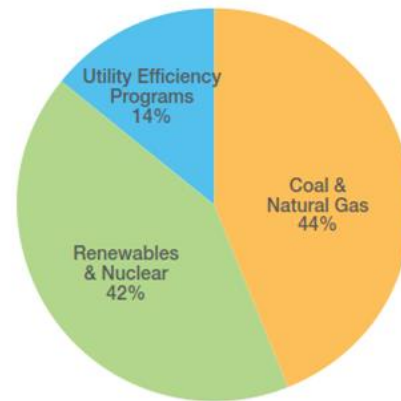
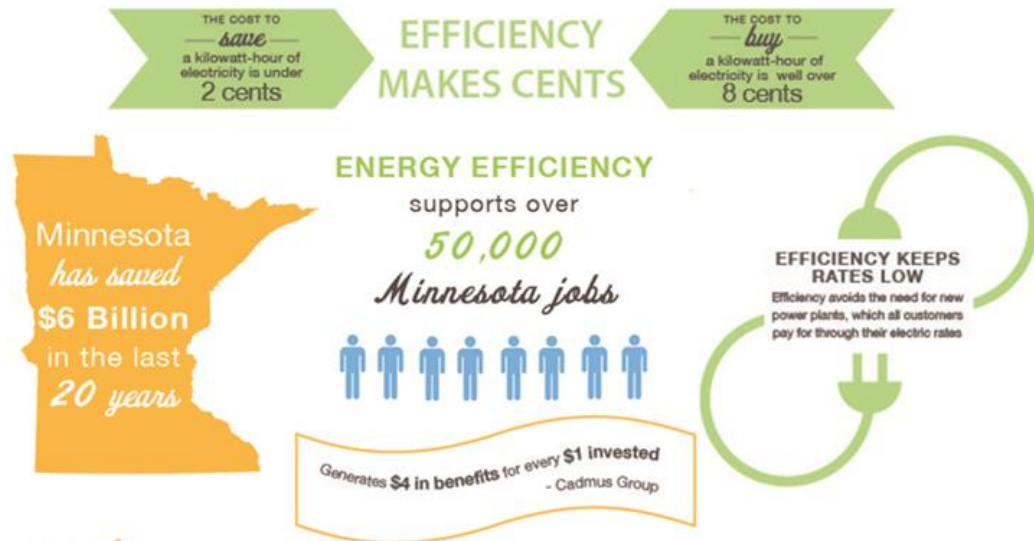


Certain renewable energy generation technologies are approaching an LCOE that is competitive with the marginal cost of existing conventional generation



Changing the narrative

CIP: MN's MOST SUCCESSFUL ENERGY POLICY



14% of
Minnesota's
electricity
demand
is met through
**UTILITY
EFFICIENCY
PROGRAMS**

Delivering the message



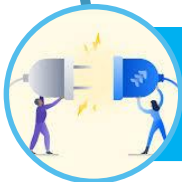
- Energy efficiency is the least cost resource
- Creating capacity through conservation
- Silent hero in the clean energy transition
- Largest clean energy employer
- www.MNCIP.org



Energy Conservation And Optimization



ECO would open up CIP to other customer-facing opportunities and programs, while safe guarding energy efficiency



Would allow the integration of conservation and optimization, rather than continue to be tightly siloed



Allows fuel-switching/electrification and energy efficiency to co-exist and complement

**REDUCE CARBON
EMISSIONS**

**REDUCE ENERGY
CONSUMPTION**

**PASSES SOCIETAL COST
TEST**

Clean Energy First

Planning

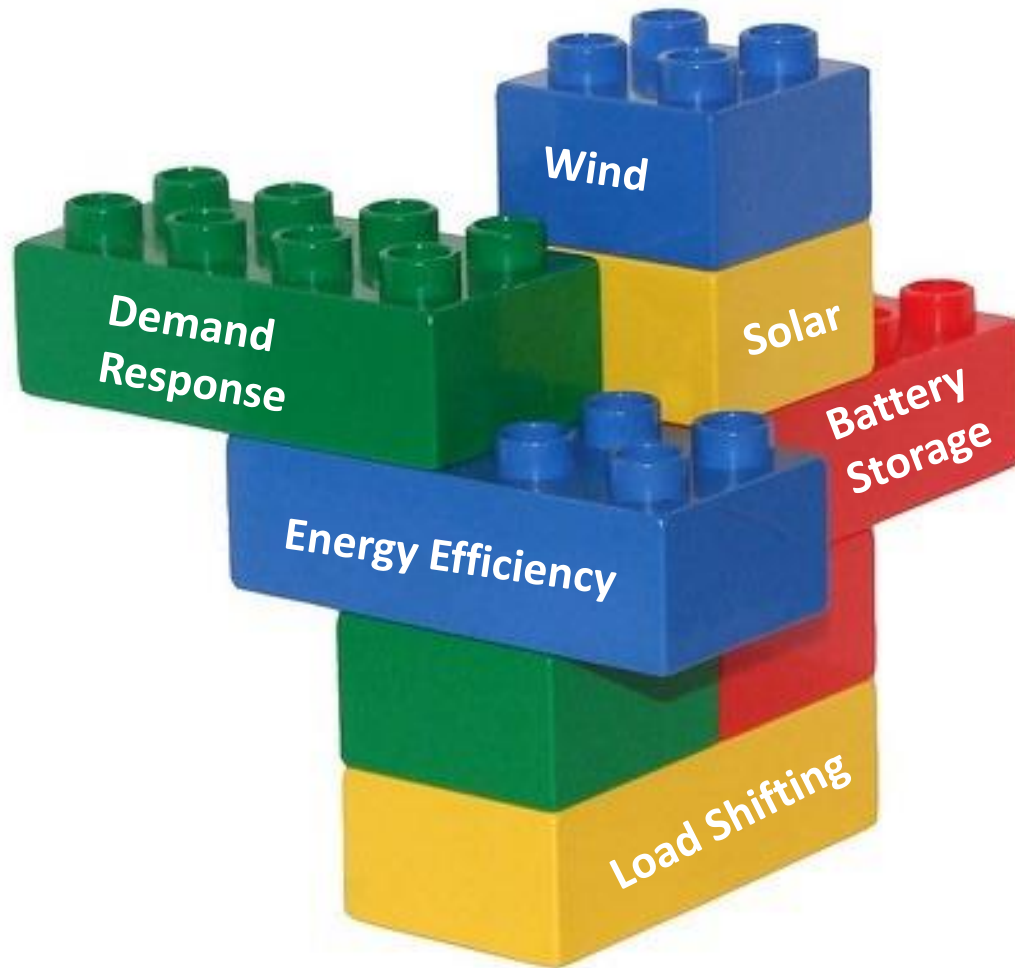
- Requires careful planning for power plant retirements
- Integrated with utility resource planning

Clean Energy

- Requires that utilities look first to clean energy resources to fill supply needs
- Implement those if reliable and affordable

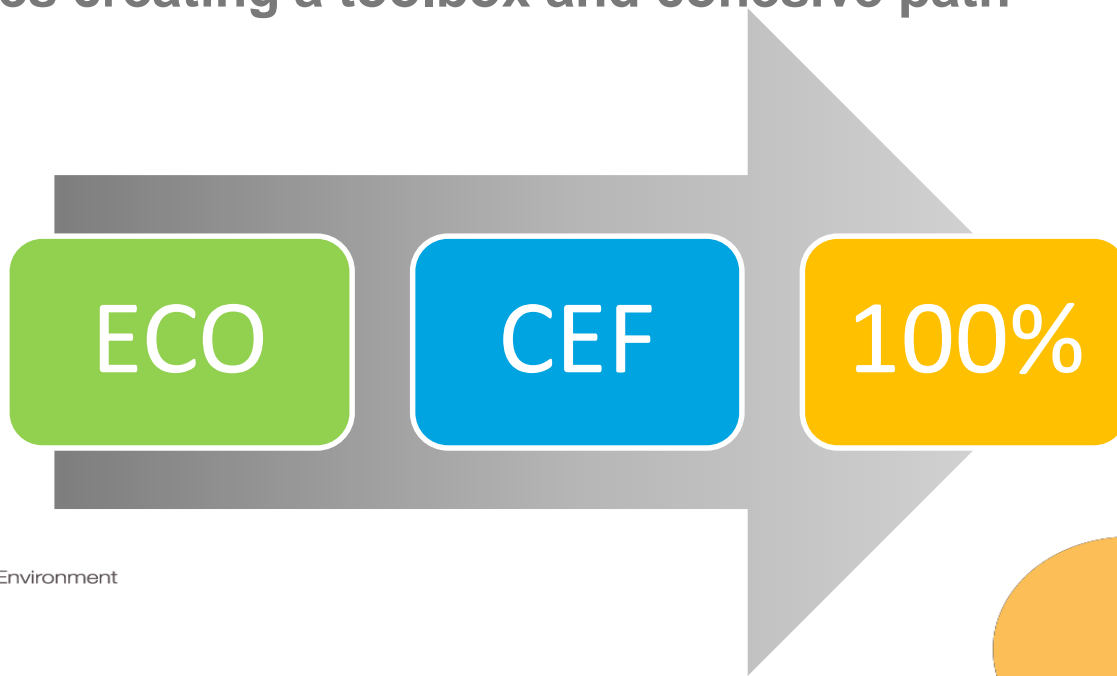
Address Key Challenges

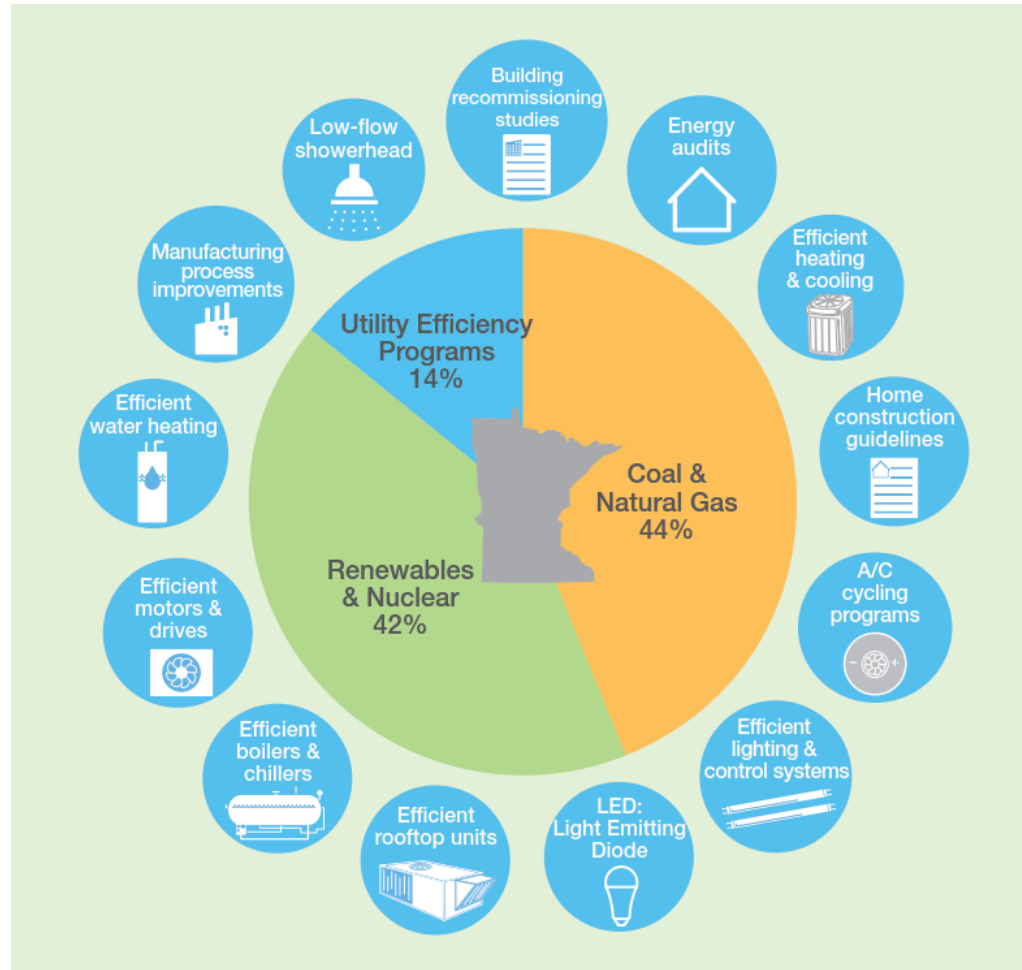
- Local worker impacts and opportunities
- Manage host community impacts
- Transmission planning



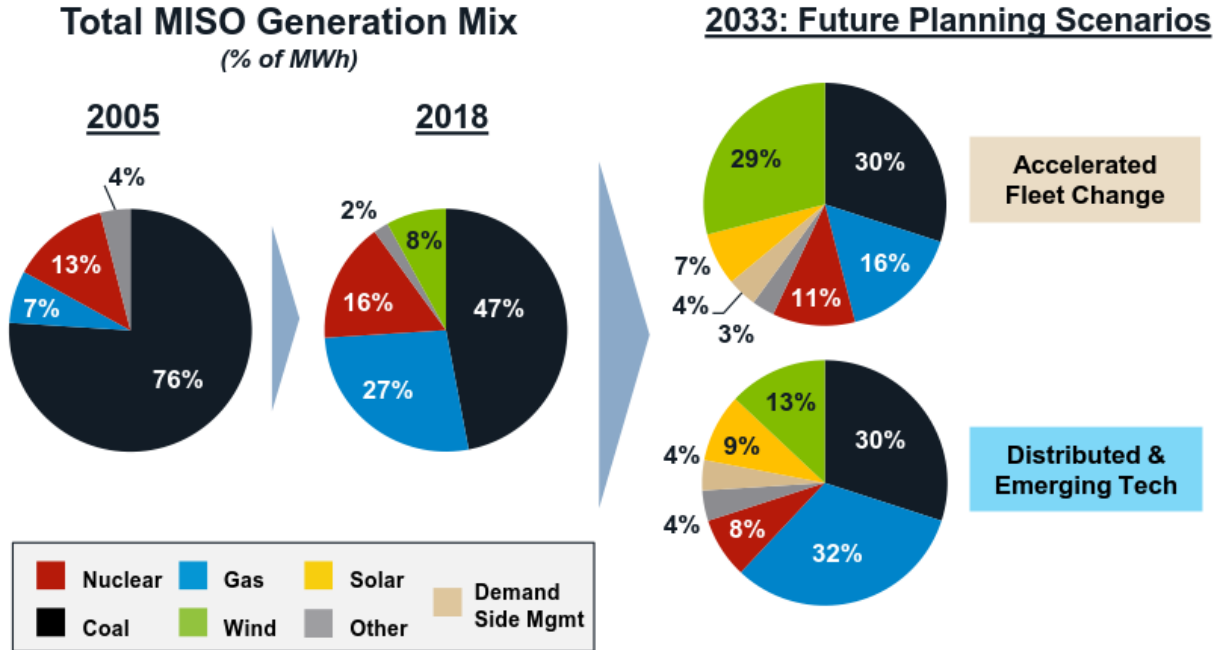
Reaching 100% carbon-free

- 100% carbon-free energy by 20XX
- Technology agnostic
- Policies creating a toolbox and cohesive path





...a generation fleet which has shifted, with the pace accelerating toward more renewables and conventional unit retirement





Federal Policies

- **S.1359 / H.R.2597 - Clean Energy Standard Act of 2019 (Sen. Smith, MN)(Rep. Lujan, NM)**
 - Not listed as a Clean Energy resource
- **CLEAN Future Act**
 - CES integrated
 - Building sector
 - Transportation sector
 - Industrial sector



THANK
you!



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