PPA Environment Committee's 25% by '25 Initiative

Status & Strategy

Mary K. Britton, Committee Chair
environment@prospectparkmpls.org

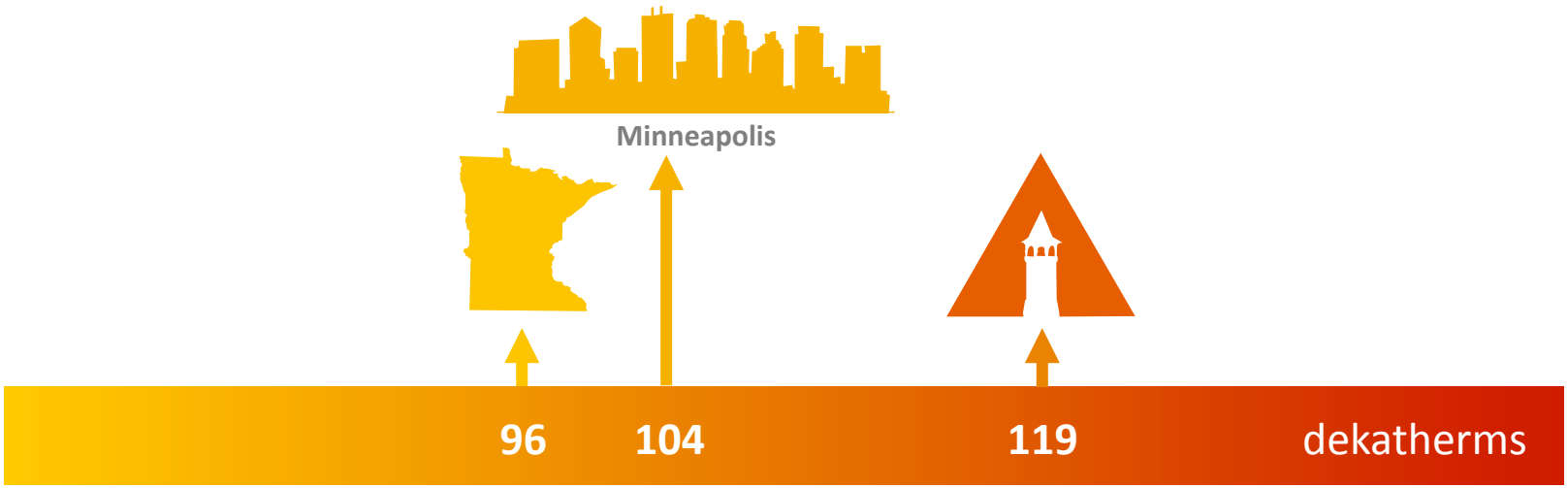
December 5th, 2022

Significance of 2030

- Tipping point to keep global warming under 1.5 degrees
- Optimistic projection – may come sooner
- Everyone, everywhere needs to work towards solution.
- We need to be prepared.

NATURAL GAS USAGE — 2019 Average

(1 – 4 unit housing)



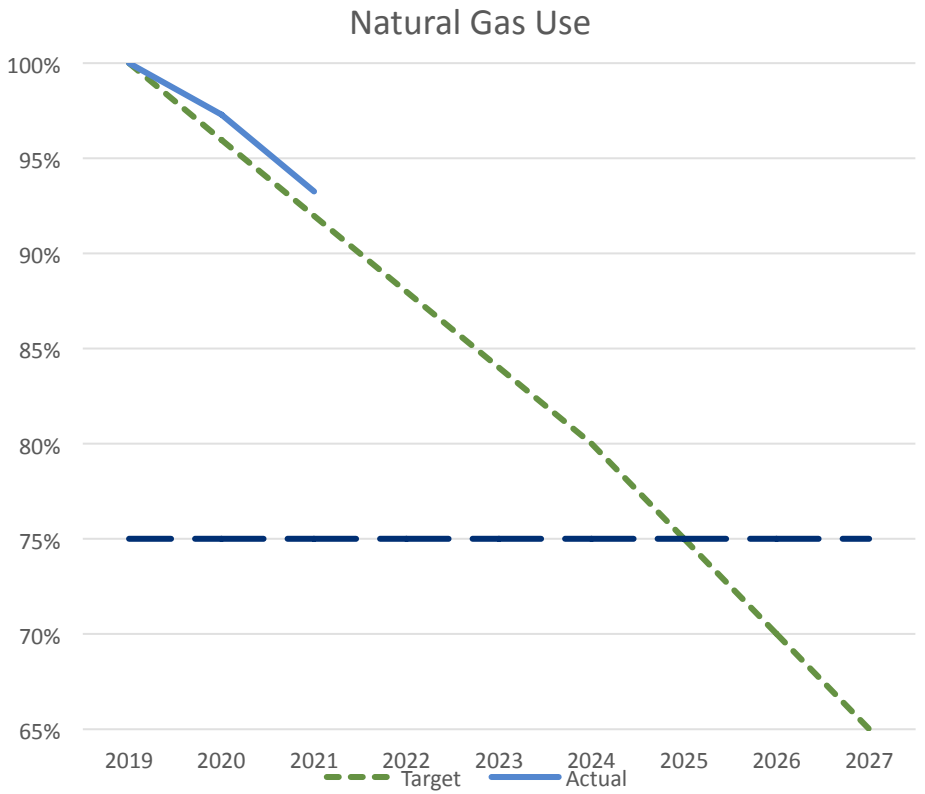
1 dekatherm = 10 therms = 117 pounds of CO2

- Prospect Park residents use 14% more natural gas and produce 14% more CO2 than the rest of Minneapolis.

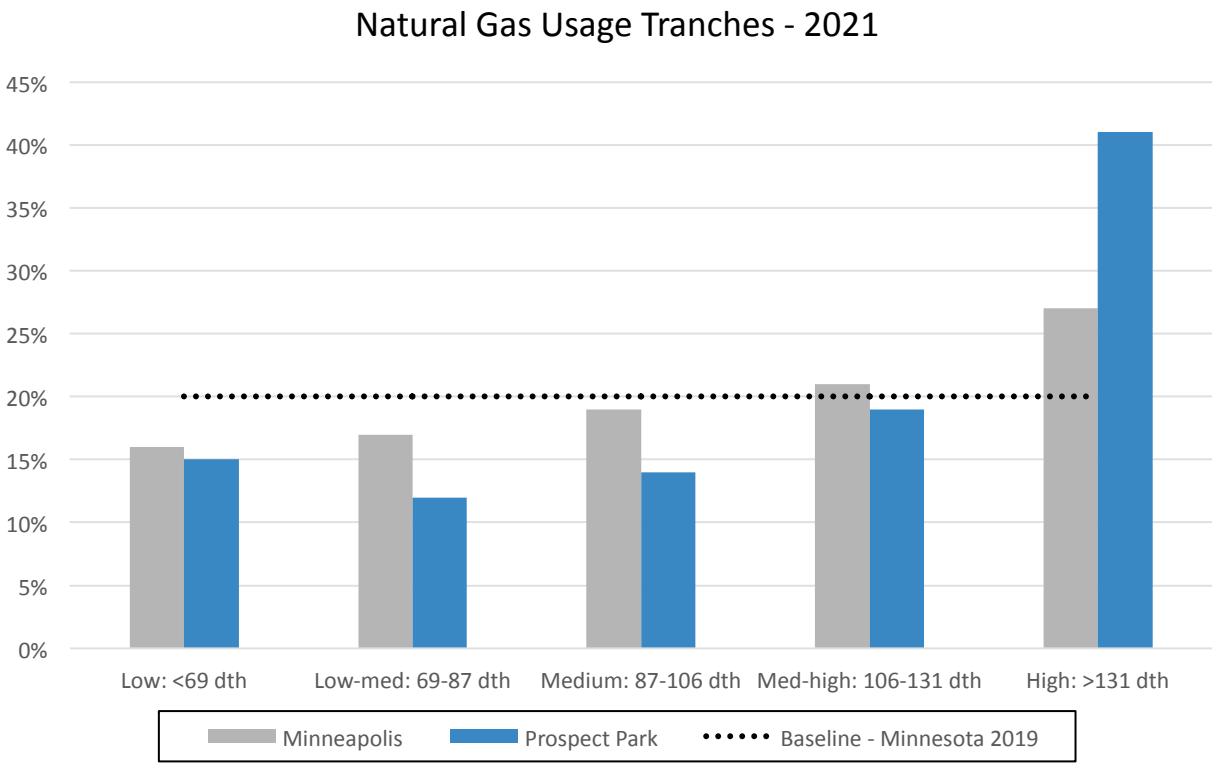
Source: CenterPoint Energy

Current Status

Natural gas use down 6.62% since 2019



Producers of CO2



- Census Track 1254
- 875 1-4 unit residential buildings
- Highest bracket has not changed significantly since we started.

Minneapolis

- 8% are senior citizens
- Avg age of homes: 1919
- Avg size of homes: 1,686 sq ft

Prospect Park

- 12% are senior citizens
- Avg of homes: 1912
- Avg size of homes: 1,795 sq ft

Anecdotal Example that it can be done:

- Senior citizen who keeps her heat at 72 degrees
- Age of home: 1926
- Size of home: >2,700 sq ft
- Scored 100% on energy audit
- In the med-high tranche

Our evolving approach:

How do we reach those neighbors in the top energy use buckets?

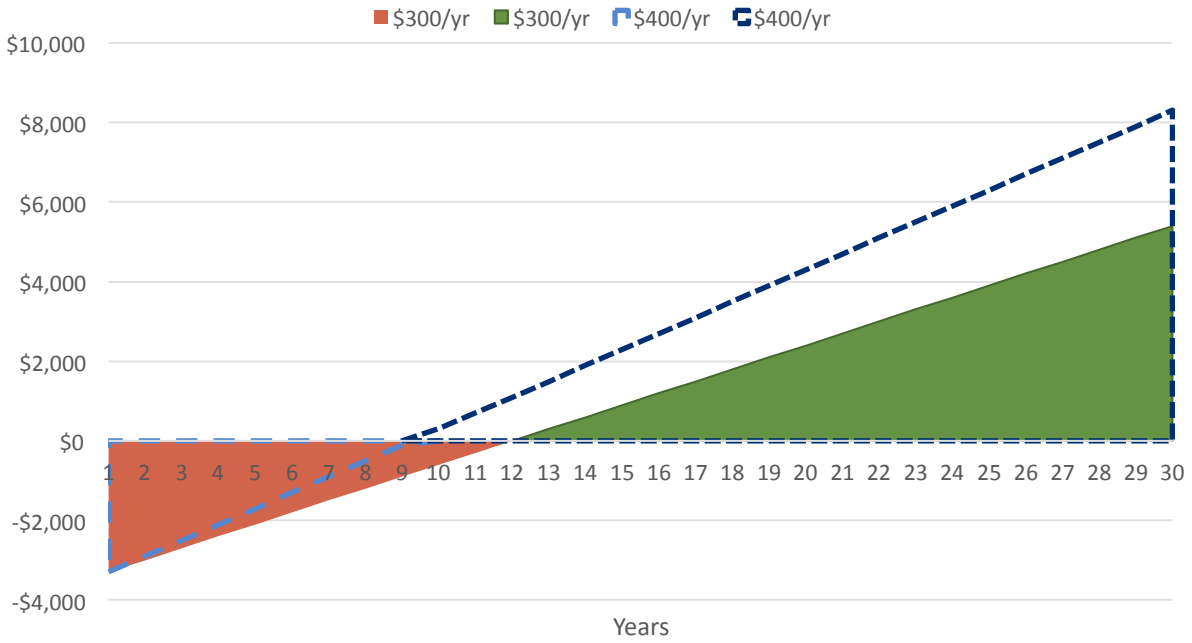
- Financial benefits
- Continued outreach
- Publicize and reward success
- Assistance where possible

Return on Investment Example

TISH Example

	Energy Improvements *(by priority)*	Improvement Points	Typical Cost	Utility Rebate	Yearly Bill Savings
Wall Insulation	Insulate your exterior walls	32	$3,100–$3,550	Up to $500	$200–$400
Attic Insulation	Air seal and insulate your attic	17	$3,000–$3,650	Up to $500	$150–$300
Heating System	Upgrade your boiler	12	$6,000–$8,000	Up to $400	$150–$300
Storm Windows	All single-pane windows have storm windows.	—	—	—	—

ROI - Wall Insulation



Increased Sale Price of Home: $6000

1.2% on $500,000 house

If sold at end of 30 years, 13.33 annual ROI

Financing

- Rebates
  - Handled by contractors

    https://www.centerpointenergy.com/en-us/residential/save-energy-money/efficiency-programs-and-rebates?sa=mn
- Loans
  - MNCEE can assist with 0% or low interest loans
    - https://www.mncee.org/minneapolis-energy-efficiency-loan
    - https://www.mncee.org/solar
- Tax Credits
  https://www.energystar.gov/about/federal_tax_credits/non_business_energy_property_tax_credits

Links:
TISH Results: https://www.mncee.org/energy-disclosure?find-energy-scores

Schedule an audit: https://www.mncee.org/home-energy-squad

Get free supplies:
https://www.centerpointenergy.com/en-us/residential/save-energy-money/efficiency-programs-and-rebates/diy-home-efficiency?sa=mn

Tax Credits:
https://www.energystar.gov/about/federal_tax_credits/renewable_energy_tax_credits

Webinar on IRA:
https://fresh-energy.org/event/the-ira-and-you-consumers-decarbonization-and-the-ira

Home Energy Hub: https://homeenergyhub.org/Home/Improve

Sign up for Wind Energy: https://mn.my.xcelenergy.com/s/renewable/windsource

Sign up for solar garden: https://mysunshare.com/

Find other renewable energy source: https://greenneighborchallenge.org/