



Minnetonka Workshop 1

Mike Holsinger, Marisa Bayer, Jamie Johnson | Community Facilitators
November 6, 2019

Agenda

Time (minutes)	Agenda
20 min	Welcome & Introductions
20 min	Agenda & Orientation
10 min	Past and Present Energy & Sustainability Initiatives in Minnetonka
15 min	Survey Results & Knowledge Sharing
15 min	BREAK
20 min	Setting Priorities
30 min	Energy Visioning Activity
5 min	Wrap-up and Topics for Next Workshop

Partners in Energy Team

Xcel Energy

Community Facilitators



**Tami
Gunderzik**

**Yvonne
Pfeifer**

**Michelle
Swanson**

**Mike
Holsinger**

**Marisa
Bayer**

**Jamie
Johnson**

Workshop 1 Objectives

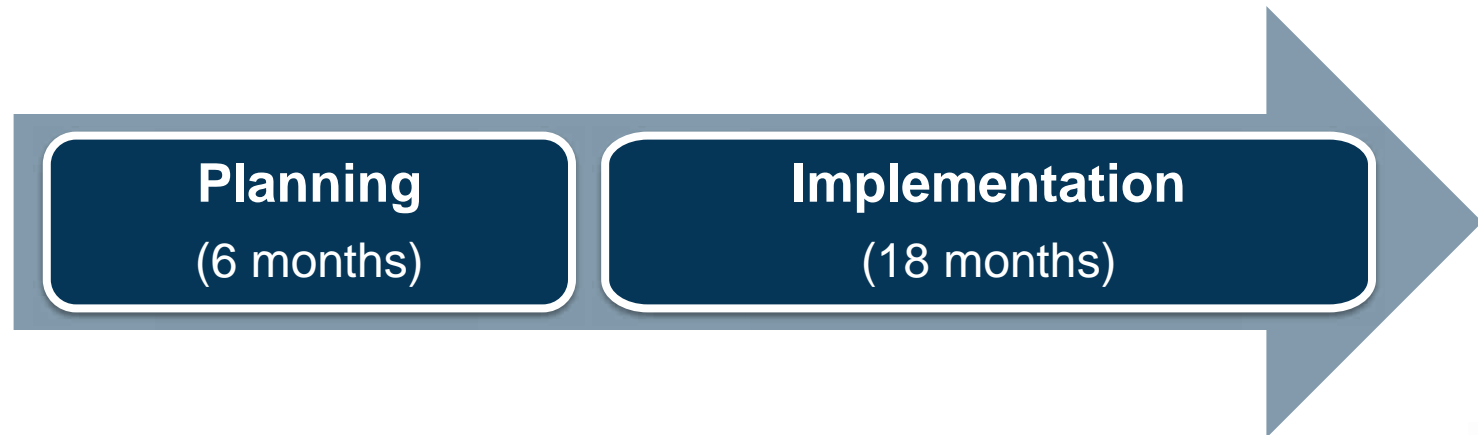
- Get acquainted
- Understand Partners in Energy and the energy planning process (background, ground rules, & “bike racks”)
- Build Shared Knowledge
 - Review past and present energy & sustainability efforts
 - Share baseline energy data
 - Share Minnetonka demographics
- Make some initial decisions about focus areas
- Shape a shared vision for Minnetonka’s energy future

What is Partners in Energy?

Partners in Energy Scope

What is Partners in Energy?

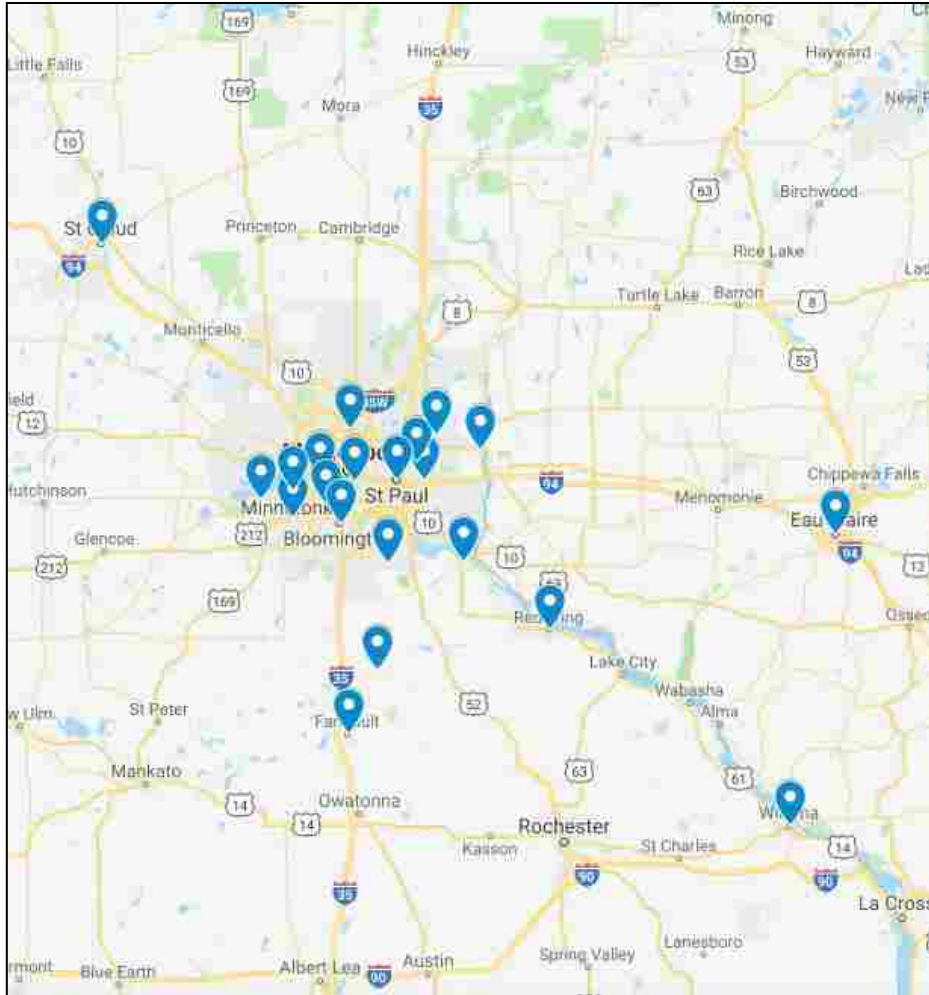
- A *two-year* collaboration with Xcel Energy to develop and implement your energy plan goals
- Xcel Energy provides tools and resources to enable community-driven energy planning and support implementation



Minnesota & Wisconsin Communities



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Map Credit: Google Maps 2019

Completed Implementation

- City of Eden Prairie
- City of Edina
- City of Mahtomedi
- City of Maplewood
- City of Oak Park Heights
- City of Red Wing
- City of St. Cloud
- City of St. Louis Park
- City of Shorewood
- City of Winona
- Lake Street Corridor in Minneapolis
- Ramsey Co. Parks and Recreation Dept.

Implementing their Plans

- City of Bloomington
- City of Faribault
- City of Fridley
- City of Hastings
- City of Northfield
- City of Rosemount
- City of Saint Paul

Developing their Plans

- City of Eau Claire, WI
- City of Minnetonka
- Saint Paul Public Schools



Xcel Energy's Goals

- Develop a better understanding of the energy needs of communities we serve
- Better align the services and programs we offer with customer needs to save energy and advance clean energy goals
- Strengthen relationships with the community and support the Xcel Energy philosophy of community engagement



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Community Benefits

Tools and resources to develop and execute an energy action plan

Engages residents and / or businesses toward a community - driven common goal

Energy action plan development at no cost to the community. (est. value \$30,000-\$50,000)

Community energy data to see baseline performance and assist in tracking implementation success

Supports economic development by using utility programs to drive improvements and energy savings

Energy Action Plan



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- Ultimate planning phase outcome
- Plan for pursuing the Community's Energy Vision
- Guides implementation

The collage features three documents:

- Edina Document:** Titled "An Electricity Action Plan for: The CITY of EDINA". It includes the Xcel Energy logo and the City of Edina seal.
- Northfield Document:** Titled "Northfield Energy Subcommittee Report". It includes a photograph of a street scene in Northfield and a "Carbon Reduction Goal" section stating: "Achieve a 50% reduction in energy-related carbon emissions from 2015 levels by 2030, and consume 100% carbon-neutral energy no later than 2050." It also features an "Our Energy Snapshot" section with a pie chart showing energy consumption: 52% Commercial and Industrial Natural Gas, 27% Commercial and Industrial Electricity, 15% Residential Natural Gas, and 6% Residential Electricity. Other statistics include "Three college-owned wind turbines", "145 Community solar garden subscribers", "21 solar panel rooftops", and "Almost 26 million kilowatt-hours (kWh) of generation green-ENERGY".
- Hastings Document:** Titled "An Energy Action Plan for Hastings, Minnesota". It includes the Xcel Energy logo, the Hastings logo with "Since 1857", and the text "Presented to City Council June 17, 2019".



Resources

A variety of resources are available to support the planning and implementation phase.



**Facilitation
& Guidance**



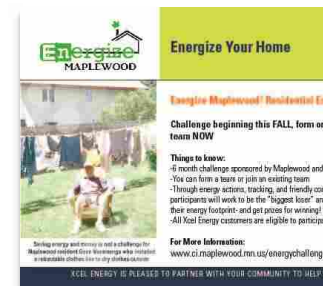
**Project
Management**



**Program
Expertise**

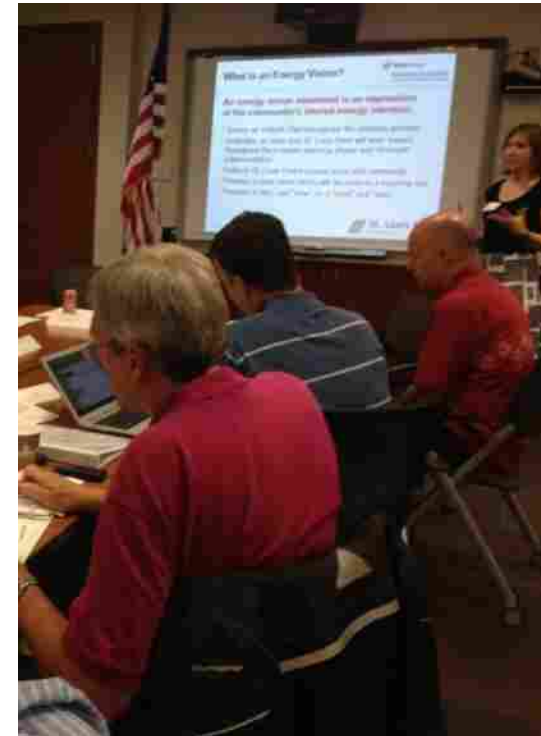


**Data &
Measurement**



**Marketing &
Communications**

Plan Development Steps



Energy Action Team Roles

- Attend planning workshops
- Contribute to the planning process
(**Active participant**)
- Represent your organization (**Representative**)
- Be a critical eye for credibility, transparency, and accuracy (**Critical Thinking**)
- Advise City Council (**Advisor**)
- Be a conduit to your network (**Ambassador**)

Xcel Energy Team Roles

- Provide **facilitation** for the Energy Action Plan development
- Gather, process, and **share data**
- **Actively learn** more about community's goals and needs
- Provide **customized access** to Xcel Energy programs & resources
- Provide transition into and **support during implementation**

Minnetonka's Energy and Sustainability Efforts

MN GreenStep Cities



- GreenStep Cities is a voluntary program that helps MN cities/communities achieve sustainability and quality of life goals through specific initiatives.
- Minnetonka is a Step 4 (out of 5) member of the program.
- Of 130 participating cities, only 21 (or 16%) have achieved Step 4 or 5.

Solar Energy Purchasing

Solar power - by the numbers



100%

of city's energy will be from solar power later this year



\$12.5 million

The estimated amount of money solar power will save the city over 25 years



15 million

kilowatt hours needed to power the city each year



500

The number of homes that could be powered by city's annual solar energy use



700

The city's solar use equals removing 700 cars from the road



350,000

Gallons of gas it would take to generate the same amount of energy

Data: Regional Indicators and B3 Benchmarking

- Regional Indicators
 - 23 Minnesota cities are involved in the Regional Indicators Initiative.



The initiative collects data about **energy, water, travel** and **waste**, and calculates **greenhouse gas emissions** and **costs** associated with each indicator.

- B3 Benchmarking
 - The city provides public building energy consumption data to the B3 Benchmarking program.
 - Providing this data helps the city monitor and improve energy consumption at our facilities.



Home Energy Squad Visits

- In 2019, the city paid for half of the first 140 households to schedule a visit.
- With a visit, residents receive:
 - LED bulbs
 - A programmable thermostat
 - Door and attic hatch weather stripping
 - Blower door test
 - Thermal image testing
 - High-efficiency showerheads
 - Kitchen bathroom faucet aerators
 - Water heater temperature assessment, adjustment, and insulation



Want to Know more? Visit
minnetonkamn.gov/our-city/sustainable-minnetonka

The screenshot shows a web browser window with the URL eminnetonka.com/green-initiatives. The browser's address bar and tabs are visible at the top. The website header features the City of Minnetonka logo on the left, a row of social media icons (Facebook, Twitter, LinkedIn, Instagram, YouTube, Facebook Messenger, Email, and Phone) in the center, and a search bar on the right. Below the header is a dark blue navigation bar with menu items: About, News & Events, Government, Departments, Residents, Businesses, Recreation, Williston, and Contact. The main content area is divided into two columns. The left column is a sidebar with a 'Community' heading and a list of links: Community, > History, Branding, Diversity and Inclusion, > Organizations, > Award programs, Natural Resources, Green Initiatives, and Partners in Energy. The right column is titled 'Minnetonka Green Initiatives' and contains the following text: 'The City of Minnetonka is passionate about protecting the environment and strives to be a leader in sustainability.' followed by a 'Print' icon. Below this is another paragraph: 'Learn more below about city initiatives and ways you can help Minnetonka's ongoing efforts to "go green!"'. Underneath is a section titled 'City initiatives' which lists five items in a vertical list: Partners in Energy, GreenStep Cities, Solar energy program, Regional Indicators Initiative, and Public building energy data.

Green Initiatives

eminnetonka.com/green-initiatives

Google Stuff News CEE Gmail Calendar PIE Stuff Other bookmarks

M CITY OF MINNETONKA

Facebook Twitter LinkedIn Instagram YouTube Facebook Messenger Email Phone

Pay Utility epermits

Search ...

About News & Events Government Departments Residents Businesses Recreation Williston Contact

Community

Community

- > History
- Branding
- Diversity and Inclusion
- > Organizations
- > Award programs
- Natural Resources
- Green Initiatives
- Partners in Energy

Minnetonka Green Initiatives

The City of Minnetonka is passionate about protecting the environment and strives to be a leader in sustainability.

Print

Learn more below about city initiatives and ways you can help Minnetonka's ongoing efforts to "go green!"

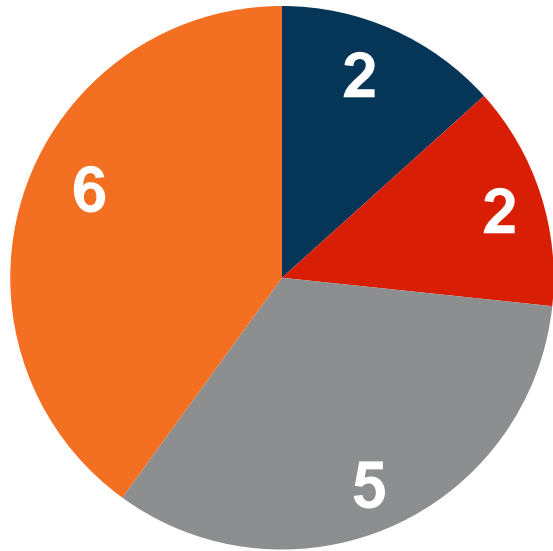
City initiatives

- Partners in Energy
- GreenStep Cities
- Solar energy program
- Regional Indicators Initiative
- Public building energy data

Pre-Workshop Survey Results

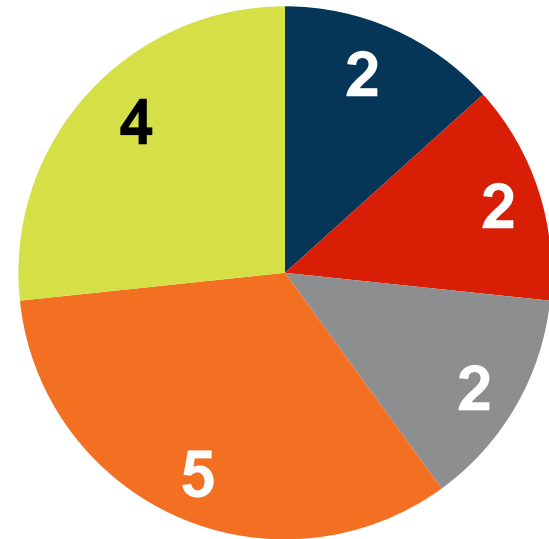
Tenure in Minnetonka

How long have you lived in Minnetonka?



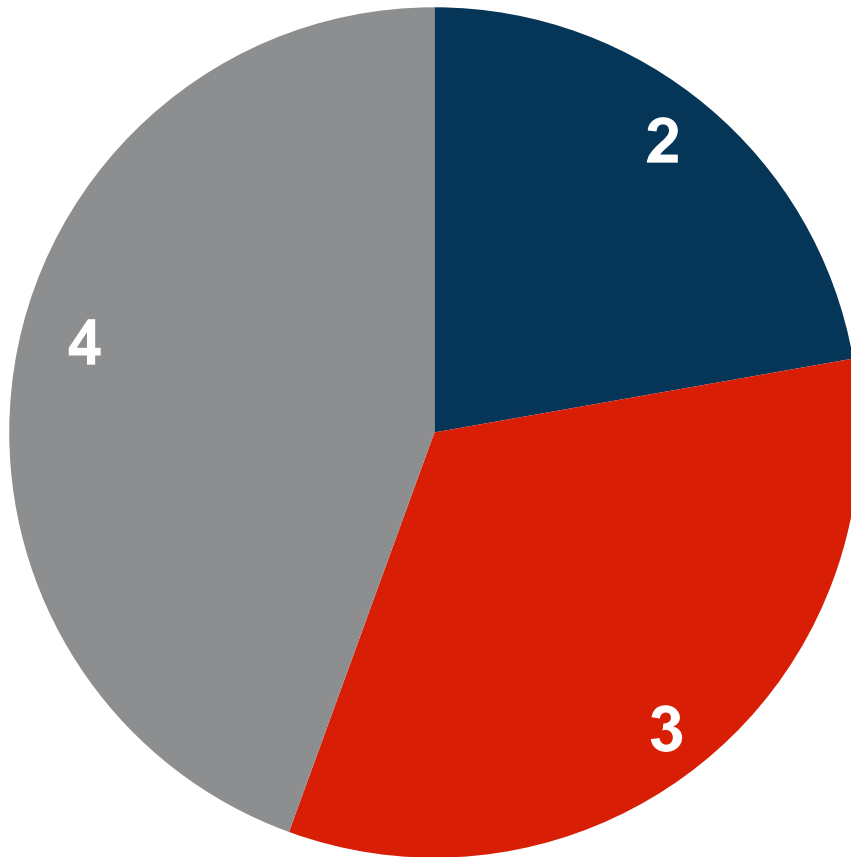
- 0-2 years
- >2-5 years
- >5-10 years
- >10 years
- Other- I don't live in Minnetonka

How long have you worked (or attended school) in Minnetonka



- 0-2 years
- >2-5 years
- >5-10 years
- >10 years
- Other- I don't work or attend school in Minnetonka

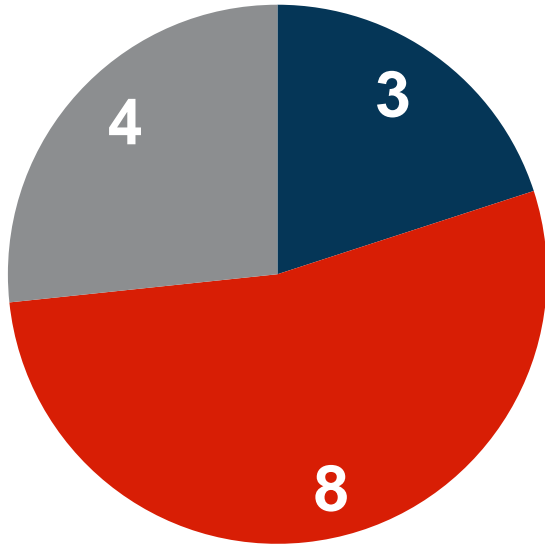
How old is your home?



- New - less than 10 years
- 30 - less than 50 years
- More than 50 years old

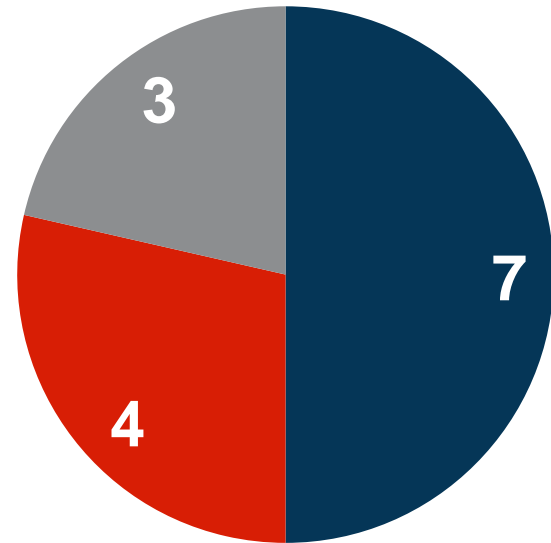
Energy Familiarity

How would you rate your overall knowledge about energy?



- Beginner
- Intermediate
- Advanced

Do you consider energy to be a part of your job?

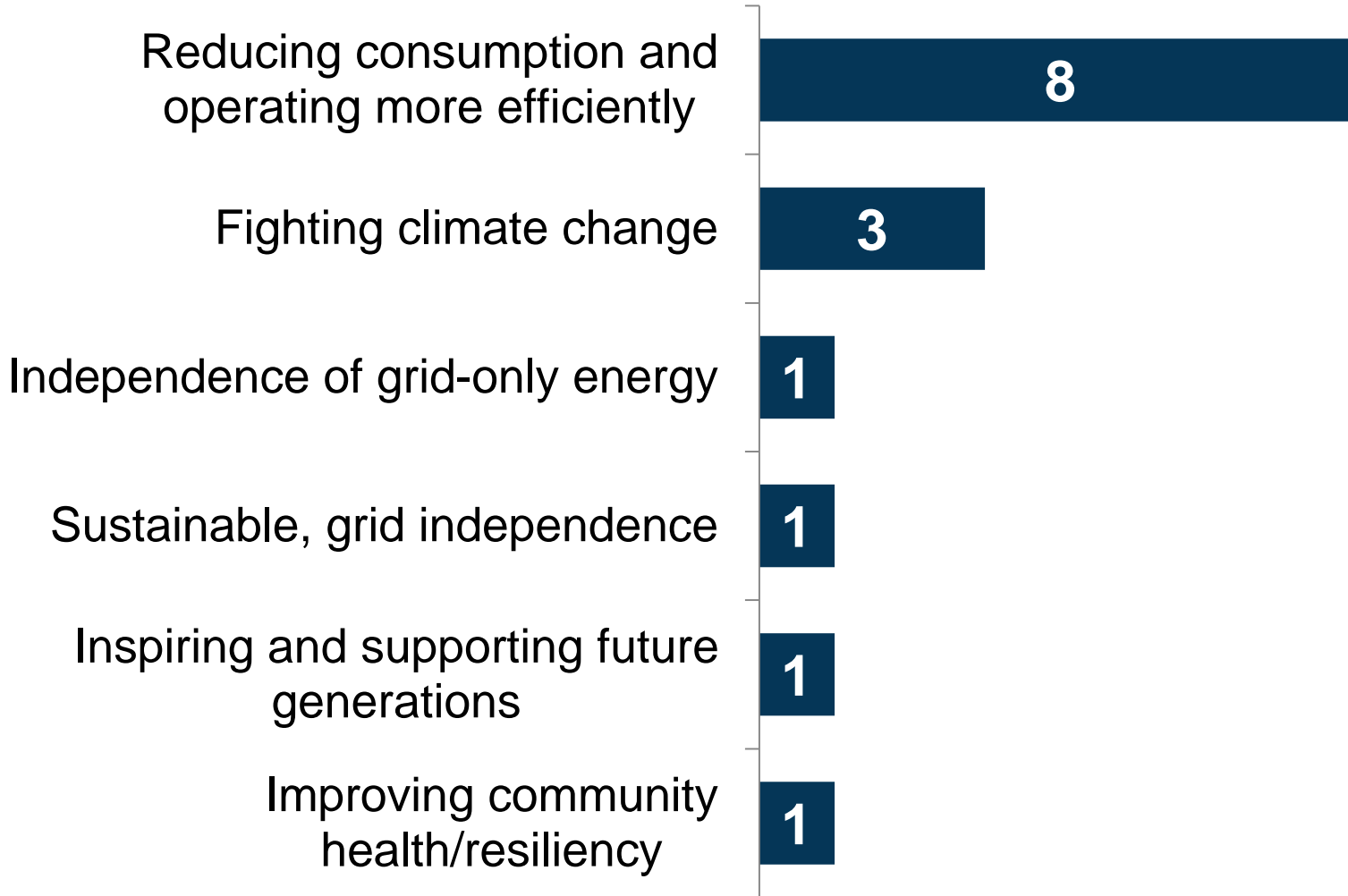


- Yes - All the time
- Sometimes - Certain tasks
- No - It is never addressed

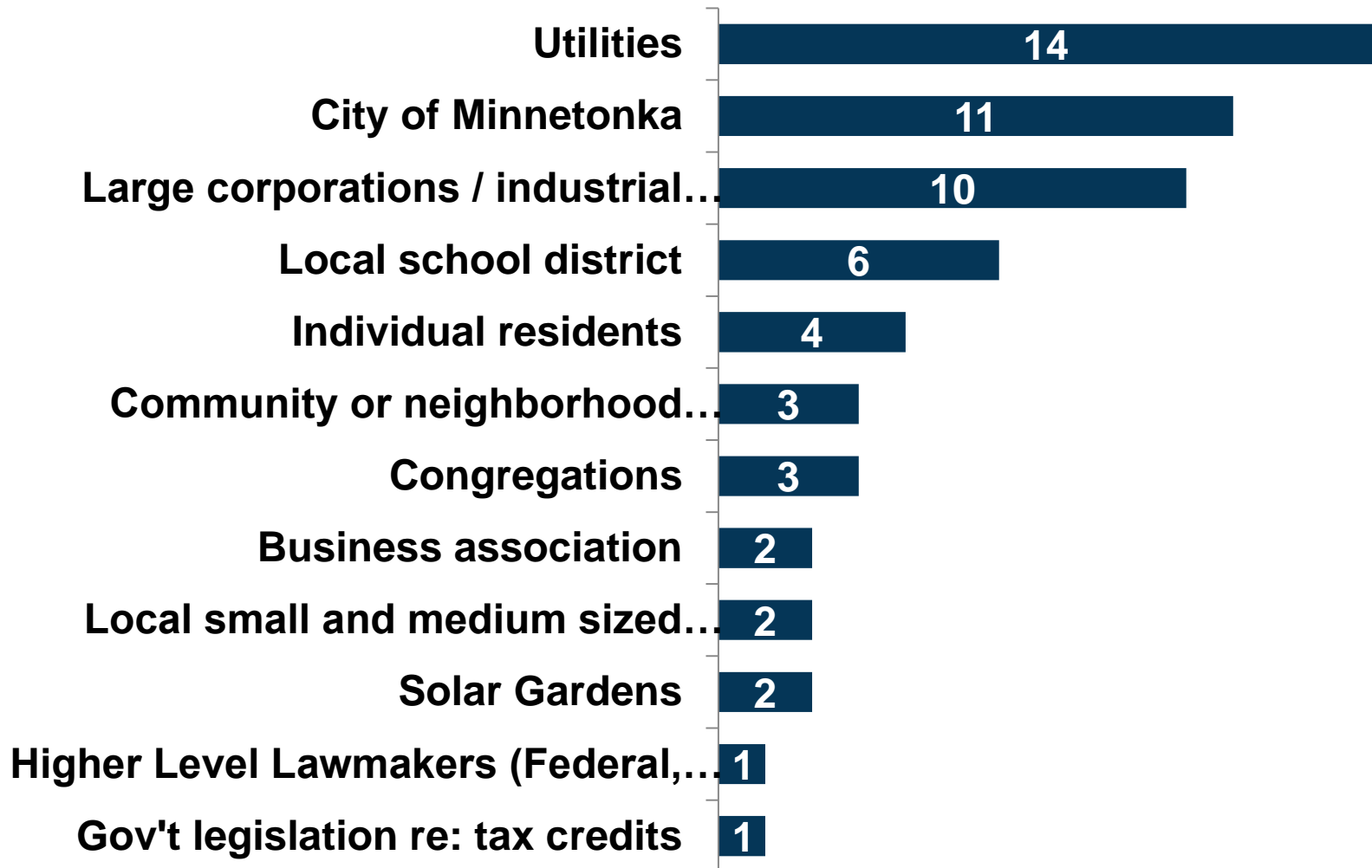
Minnetonka's energy priorities ...what stands out as most important to you?



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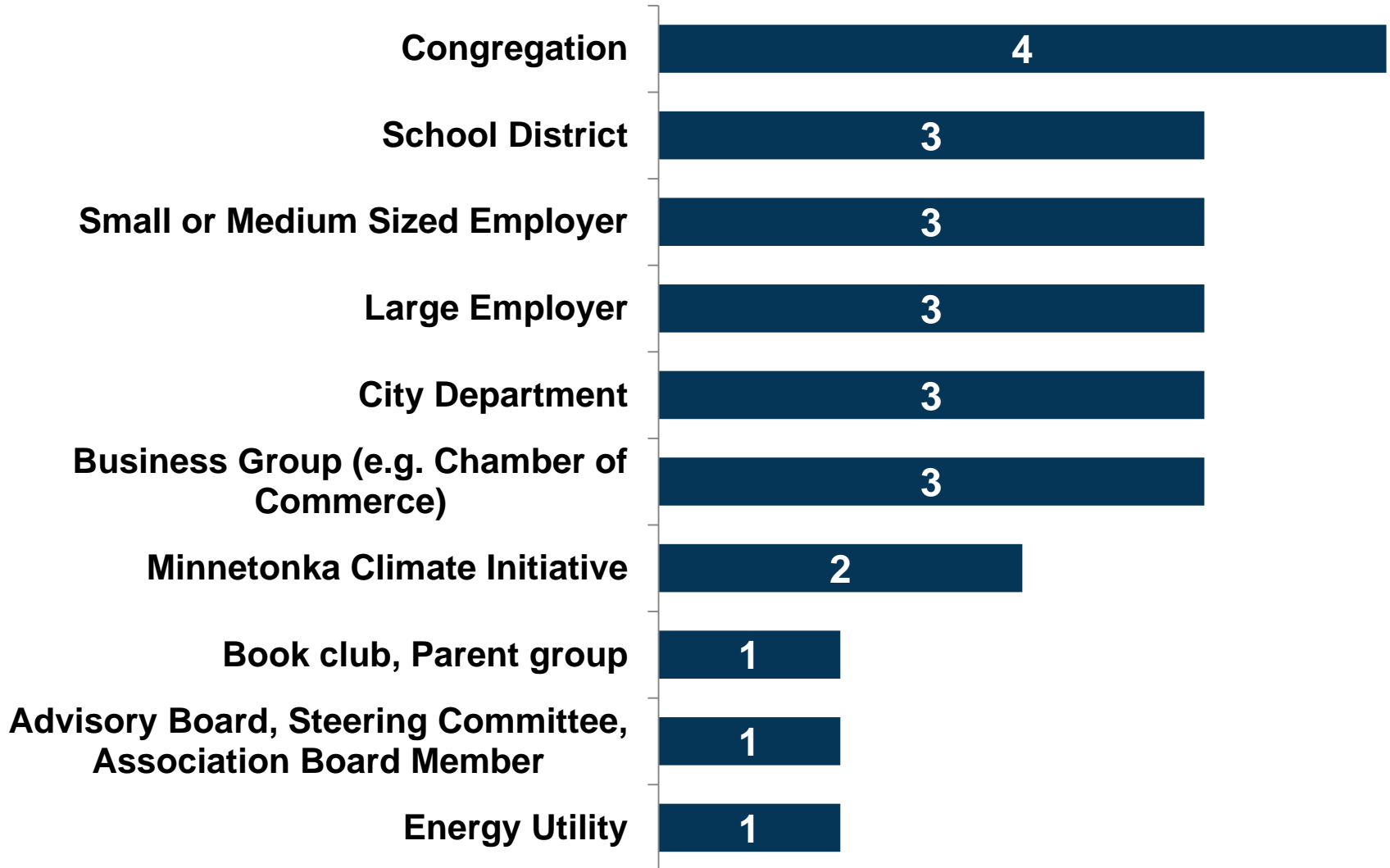
In Minnetonka, which entities have the most influence in terms of driving action toward energy efficiency and/or sustainability?



Please tell us about any Minnetonka groups to which you belong

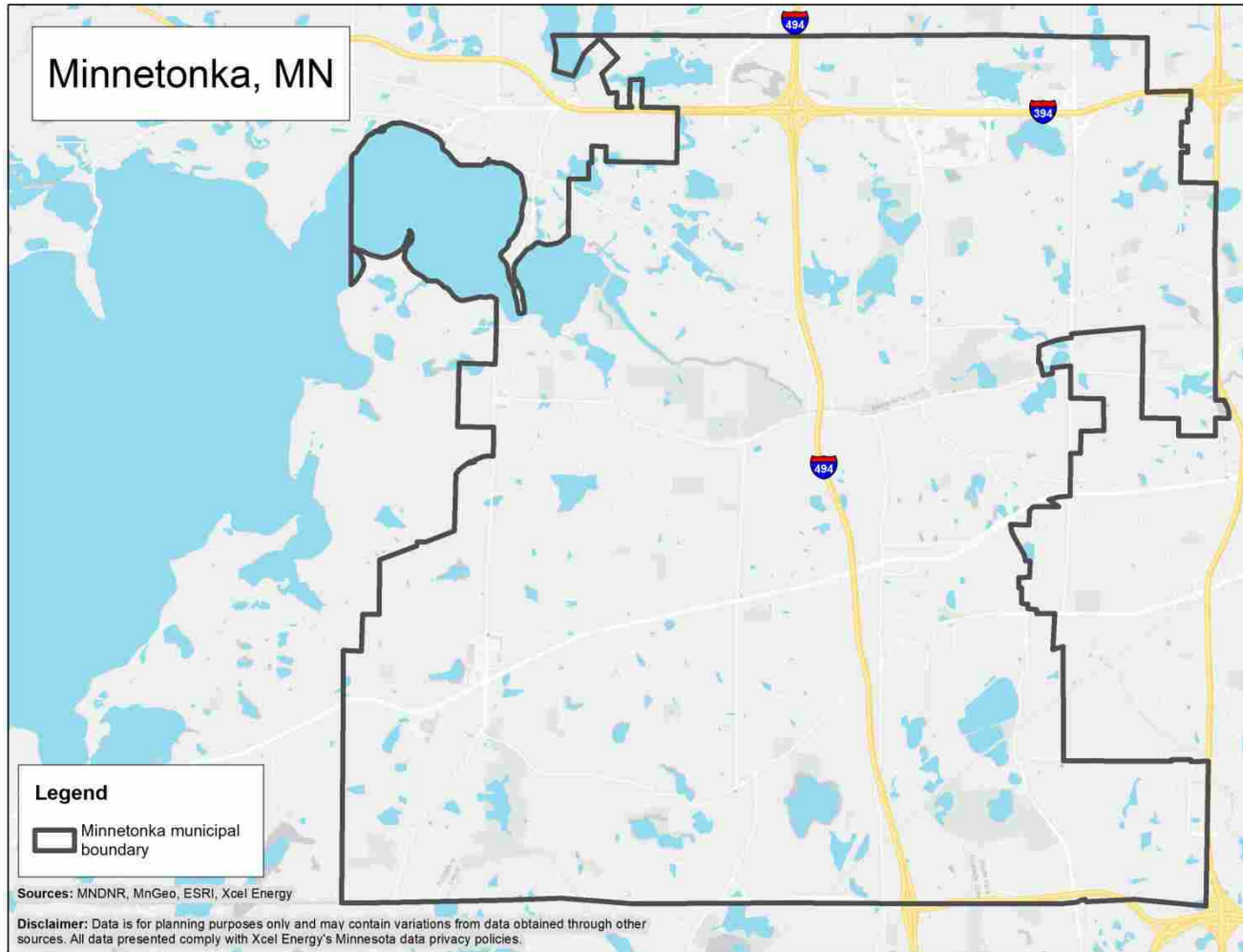


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Minnetonka Profile & Baseline Energy Data

Minnetonka

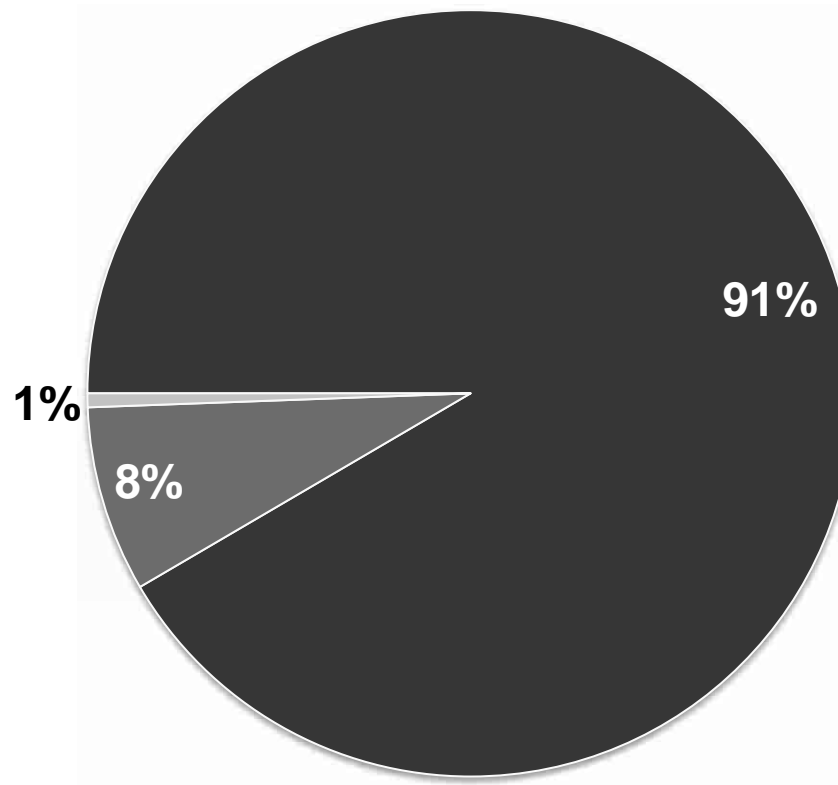


Energy Data 101

- Both Xcel Energy electric and CenterPoint Energy natural gas data included unless otherwise noted
 - Xcel Energy provides electricity to Minnetonka
 - CenterPoint energy provides utility natural gas to Minnetonka
- 15 x15 Data Privacy Rule
 - Must be greater than 15 entities
 - No single entity can account for more than 15 percent of the usage
- A “Premise” is not necessarily a “Customer”
- Caveats of data processing
 - Customer types
 - Geographic locations vs billing address
- Data are unofficial for planning purposes, and results may change slightly

Premises (2018)

Electric Premises - Xcel Energy



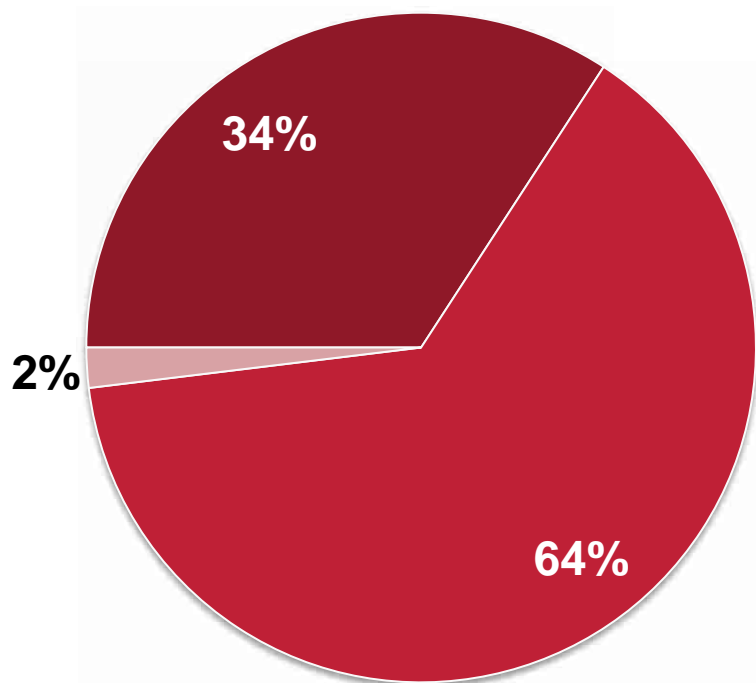
■ Residential ■ Commercial and Industrial ■ Municipal

Total Electric Premises: 26,423

Total Natural Gas Premises: 20,185

Energy Consumption (2018)

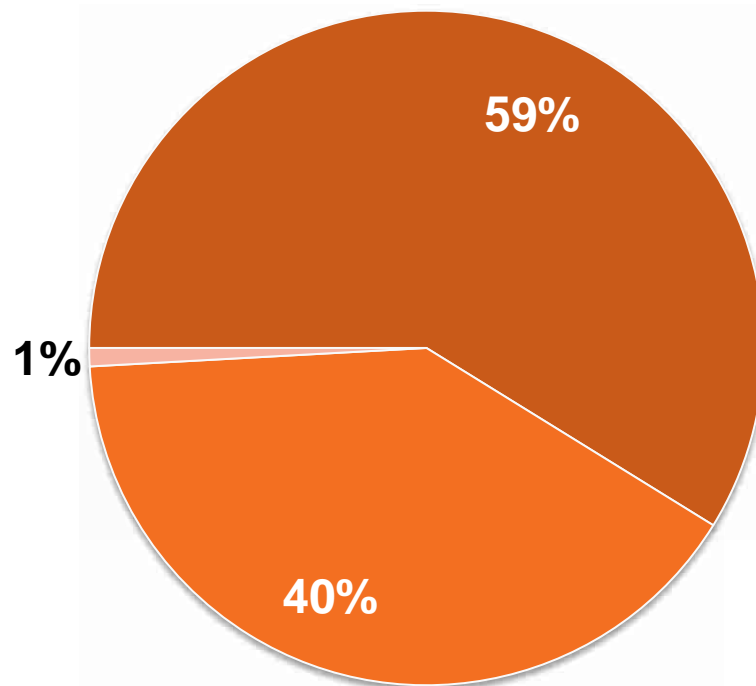
Electricity Consumption Xcel Energy



- Residential
- Commercial and Industrial
- Municipal

Total kWh: 596,662,489

Natural Gas Consumption CenterPoint Energy

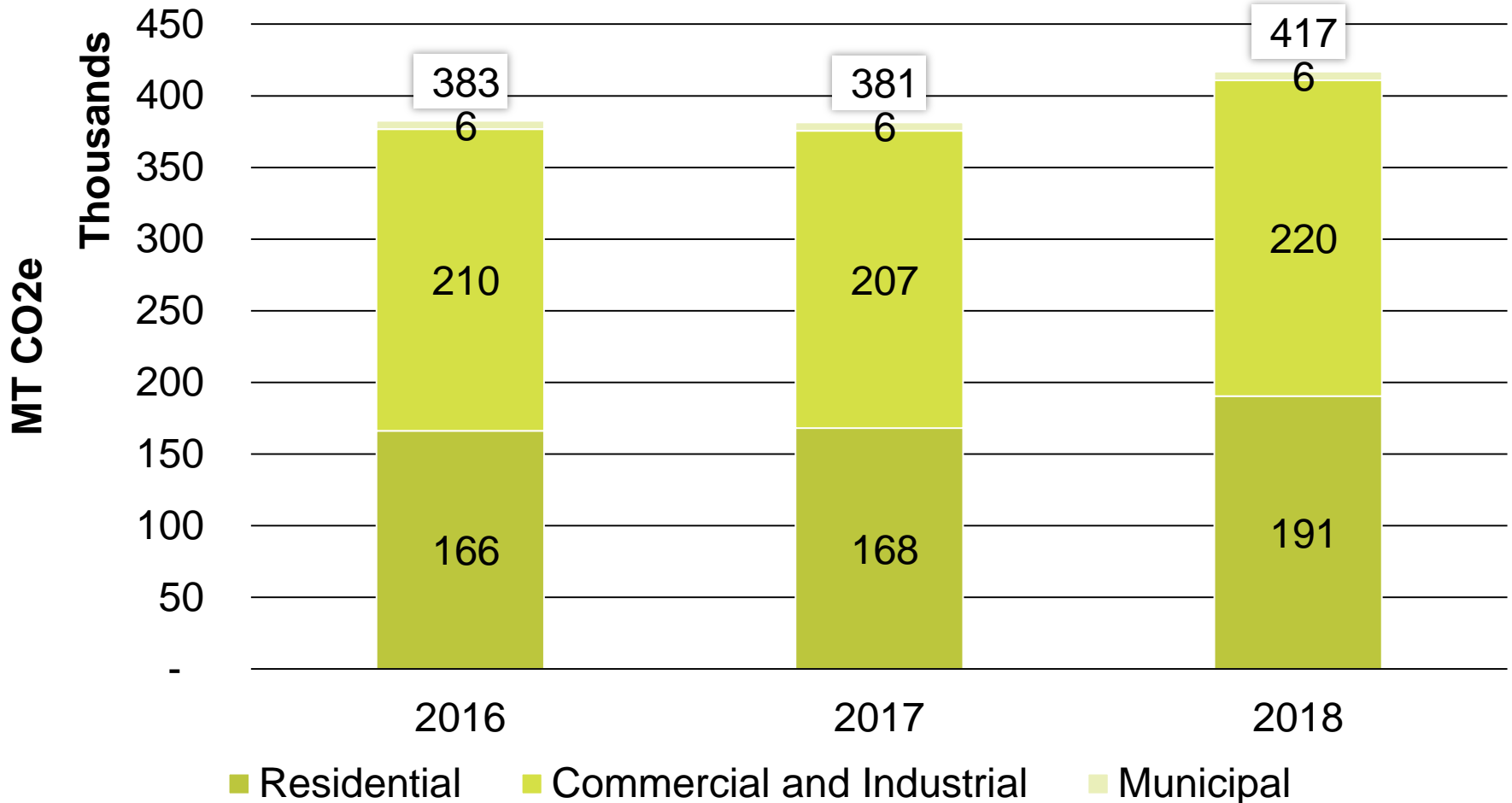


- Residential
- Commercial and Industrial
- Municipal

Total therms: 36,797,427

Energy-Related GHG Trends

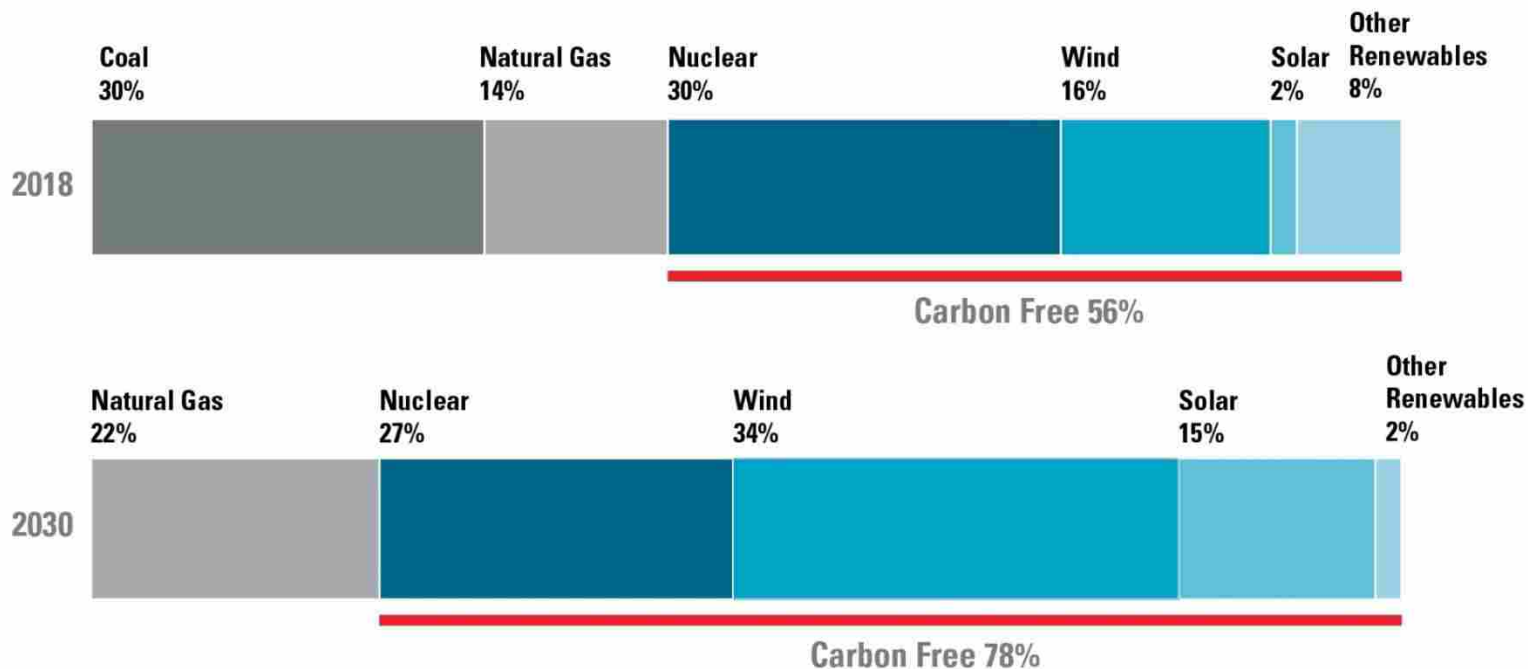
GHG Emissions



Xcel Energy's Clean Energy Vision



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- **50% GHG emissions reduction** over 2005 levels by 2022
- **26% renewables in 2018**, increasing to 46% by 2022
- Significant growth in **wind energy**

Average Electricity Costs

Customer Type	Average Electricity Cost (\$/premise/year)	Total Electricity Costs
Residential	\$1,042	\$25,020,068
Commercial & Industrial	\$17,895	\$37,055,304
Municipal	\$7,831	\$1,192,957
Total		\$63,268,329

*Based on 3-year average 2016 - 2018

How is Minnetonka Saving Electricity?

Residents Xcel Energy Programs

- Heating and Cooling Equipment Rebates
 - **976** Xcel Energy Rebates in 2018
- Refrigerator Recycling
 - **171** Old Fridges and Freezers Recycled in 2018
- Multifamily Energy Savings Program
 - **154** units served in 2018
- Home Energy Squad
 - **89** Households served in 2018



How is Minnetonka Saving Electricity?

Commercial and Industrial Xcel Energy Programs

- Lighting Rebates and Programs
 - **211** received lighting rebates or participated in a lighting efficiency program through Xcel Energy
- Cooling Efficiency Rebates
 - **21** Business participated in 2018
- Motor Efficiency Rebates
 - **19** businesses participated in 2018



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Renewable Energy (2018)

	Residential	Commercial & Industrial
Windsorce®		
Subscribers	952	5
Subscription Amount (kWh)	3,374,000	346,000
Renewable*Connect®		
Subscribers	63	7
Subscription Amount (kWh)	540,000	5,530,000
Community Solar Garden^x		
Subscribers	186	113
Production Allocation (kWh)	1,349,451	5,572,000

^x Program where the customer does not retain the Renewable Energy Credit

Minnetonka Demographics

Residents

- **53,713** residents (2018 est.)
- **23,740** households (2018 est.)
- Median Income **\$86,672**
- **5.0%** of residents live in poverty
 - 10.5% statewide
- **2.3%** unemployment rate
 - 3.4% statewide
- **19.9%** of residents are under 18
- **13.2%** of families speak language other than English
- **9.8%** of residents foreign born



Photo: Josh / [CC BY](#)

Housing

- **68.8%** Owner-occupied units
- **31.2%** Renter-occupied units
- Median rent: **\$1,287**
- Median home sales price **\$315,800**
- **One third** of housing units are in multifamily buildings
- Eleven affordable housing apartment complexes representing **948** affordable units
- **90%** of housing units are more than 20 years old

Source: American Community Survey 2016, Minnesota Housing Finance Agency



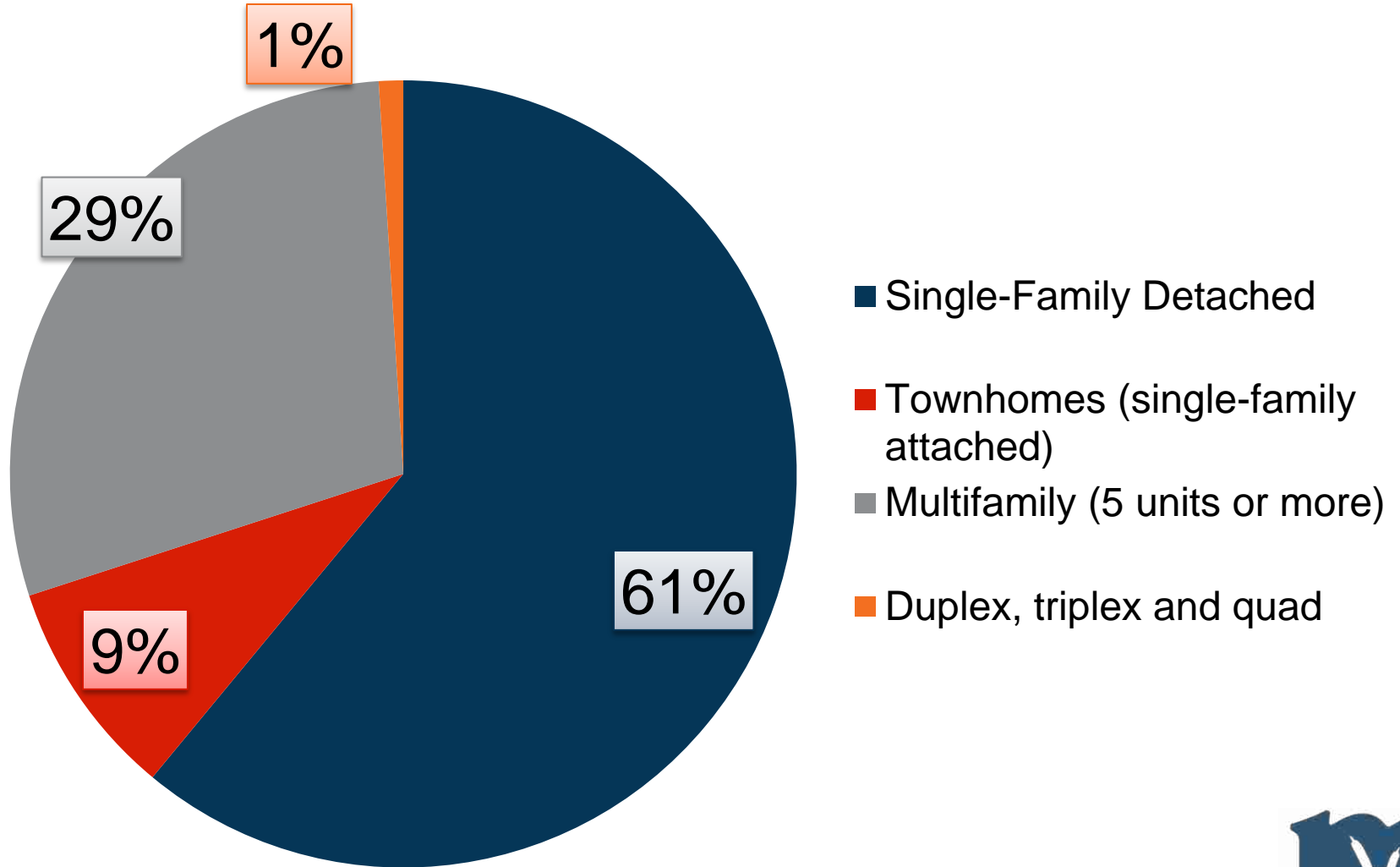
[Photo](#): Josh / [CC BY](#)

Minnetonka Housing Age

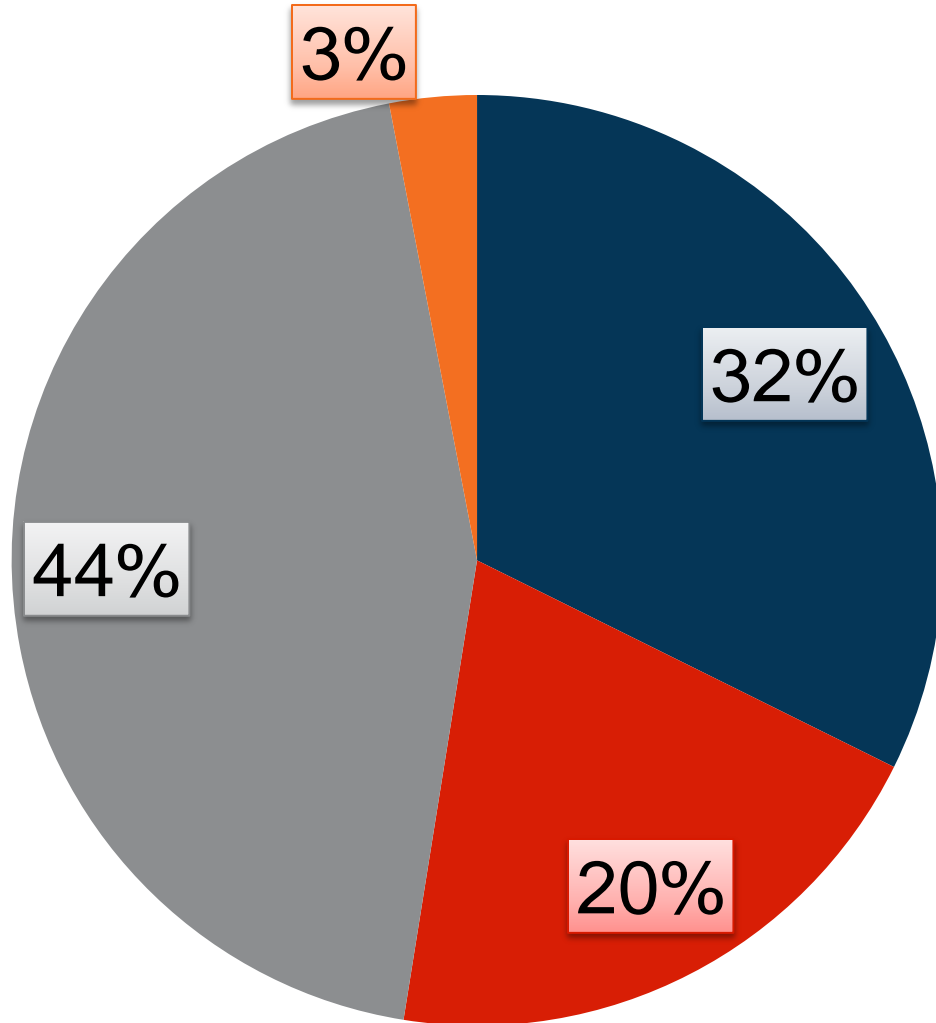
Year Built	Housing Units	Percent
2014 or later	112	0.5%
2000-2013	346	1%
2000-2009	1207	5%
1990-1999	3451	14%
1980-1989	6731	28%
1970-1979	4210	18%
1960-1969	2977	12%
1959 or earlier	4910	21%

93.5% more than 20 years old

Minnetonka Housing Mix: 1990



Minnetonka Homes Built Since 1990

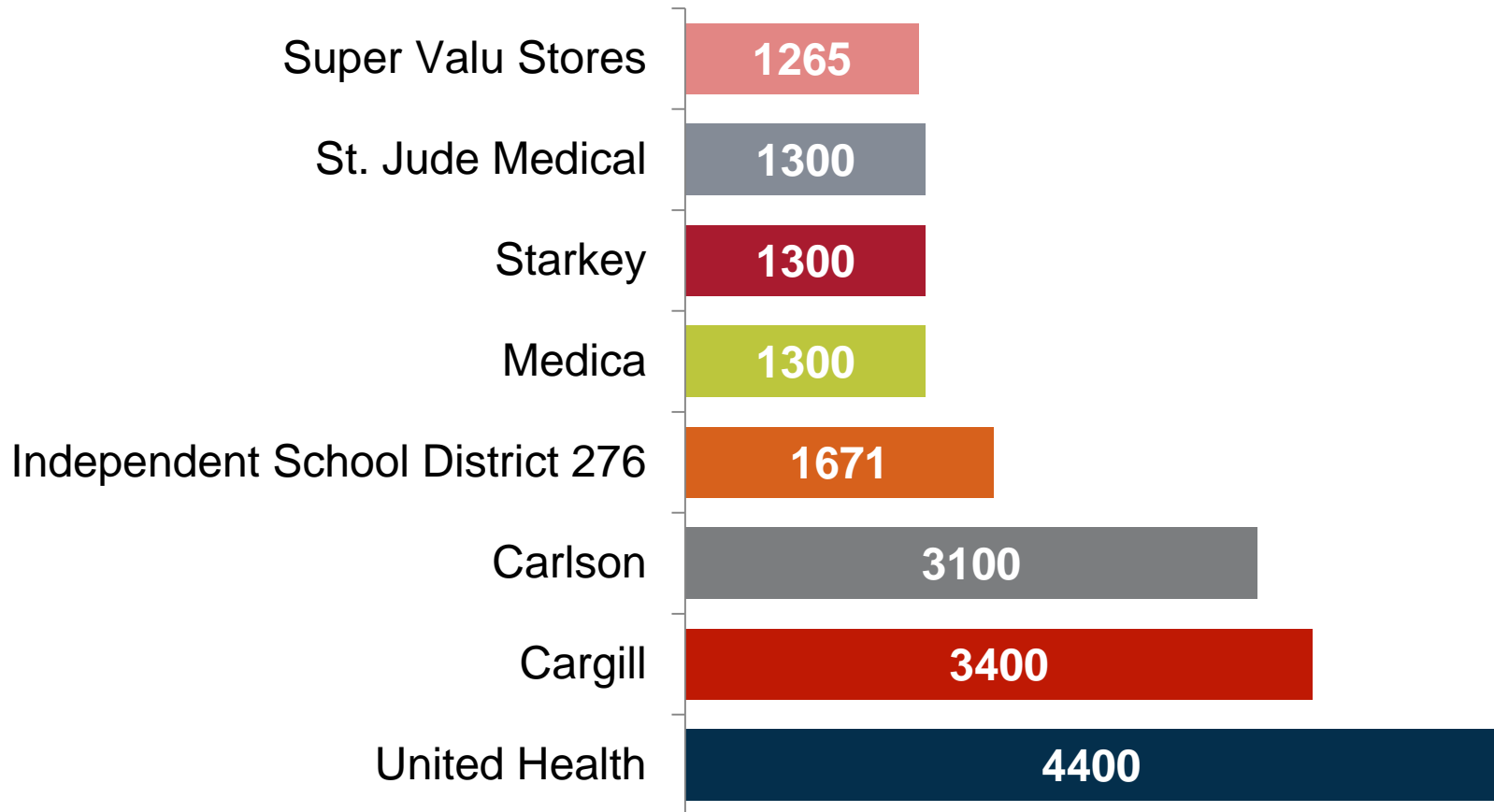


- Single-Family Detached
- Townhomes (single-family attached)
- Multifamily (5 units or more)
- Duplex, triplex and quad

Minnetonka Area Major Employers 2016



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Time for a Break!

While you're "away" ...

- Think about which facts felt most newsworthy.
- If you could only tell a friend one or two of the facts from this presentation, what would they be?

Priorities

Setting Priorities

- Which 2 or 3 facts felt most newsworthy?
 - Write down your “news” items
- What was the most surprising thing you heard?
 - Circle one that stands out

Where do we want to go?

Why an Energy Action Plan?

- “it will provide a holistic plan on how to reduce energy consumption”
- “allows us to plan ahead in both an economical and sustainable way”
- “keep the city viable for years to come and to attract new families”
- “be a leader in reducing climate change impacts”
- “increase awareness across the community”
- ”result in financial savings for residential, institutional, commercial and manufacturing users within our city”

Why an Energy Action Plan?

Problems	Opportunities
<ul style="list-style-type: none">• Climate change• Greenhouse gas emissions• Energy and infrastructure costs	<ul style="list-style-type: none">• Renewable energy• Low carbon footprint• Energy efficiency• Attract new families/businesses
Values	Responsibility to Act
<ul style="list-style-type: none">• Environmental stewardship• Informed public• Conserve resources• Reducing impact	<ul style="list-style-type: none">• Be prepared for the future• Government's role• Community-wide approach• Influence others

Energy Visioning Activity

1. Break into groups of 4-5
2. Imagine together: **In 20 years, what energy-related headline will show up on the cover of the *Sun Sailor*?**
3. Think together about the main themes of the article that goes with that headline.
4. On your flipchart paper, write the headline and some bullet points of what is in the article. You may also draw a picture to go along with the article.
5. Choose one group member to present.

Wrap-up

Topics for next time

- Answering additional data questions
- Confirming focus areas
- Setting community-wide energy goal
- Brainstorming goals for each focus area
- Starting to think about strategies to achieve goals

Plan Development Steps



Workshop Dates

- Workshop 2: Monday, December 9
- Workshop 3: Wednesday, January 15
- Workshop 4: Wednesday, February 19
- Workshop 5: Tuesday, March 24



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