

Homes for Generations



Aeon's Vision:

that every person has a home and is interconnected within community.

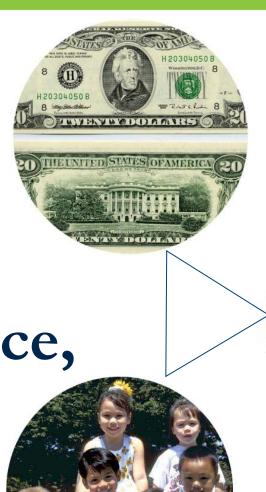


Sustainability...

Translation:

conservation,
high- performance,
sound business







Aeon and University of Minnesota Center for Sustainable Building Research –

New Const.



Subst. Rehab



Mod. Rehab







LIVING BUILDING CHALLENGE™ 2.0

A VISIONARY PATH TO A RESTORATIVE FUTURE

www.ilbi.org



Imagine...

"What if every single act of design and construction made the world a better place?"

■ The Living Building Challenge_{TM}









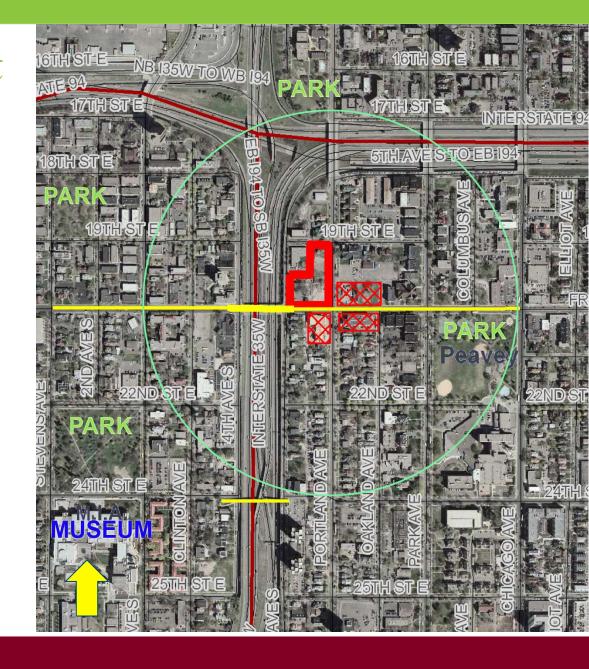
Community Workshops



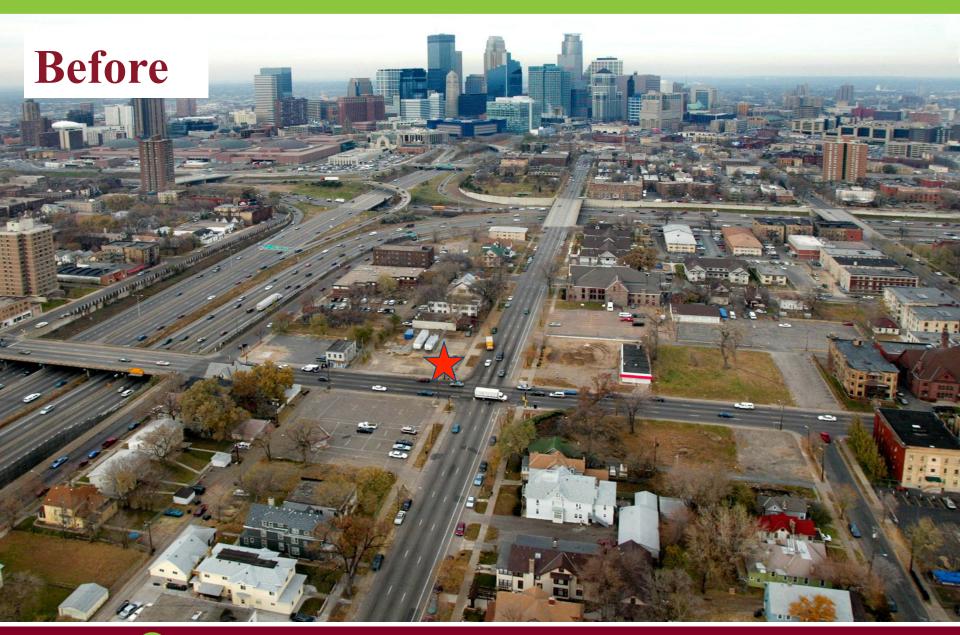
Community Impact

What we build... "cannot be built in isolation, but must also repair the world around it, and within it, so that the larger world at that one place becomes more coherent, and more whole..."

- Christopher Alexander









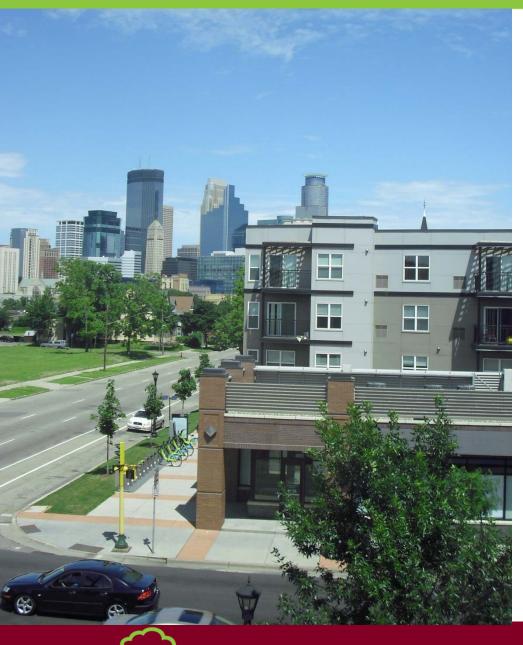






Sustainable Living Resident Engagement Pilot Project





The Wellstone

- Opened in late 2008
- Near downtown
 Minneapolis
- 49 units
 - 36 affordable
 - 13 market-rate
- 142 residents
- 75 are children
- 2/3 from East Africa



For Geeks

103,359 SF – Bldg size 3,760,463 kBtu - energy 45.6 kBtu/sf - EUI 10.3 lbs CO2 – Carbon Intensity 3,581,856 gal H2O 105.3 gal/BR/day

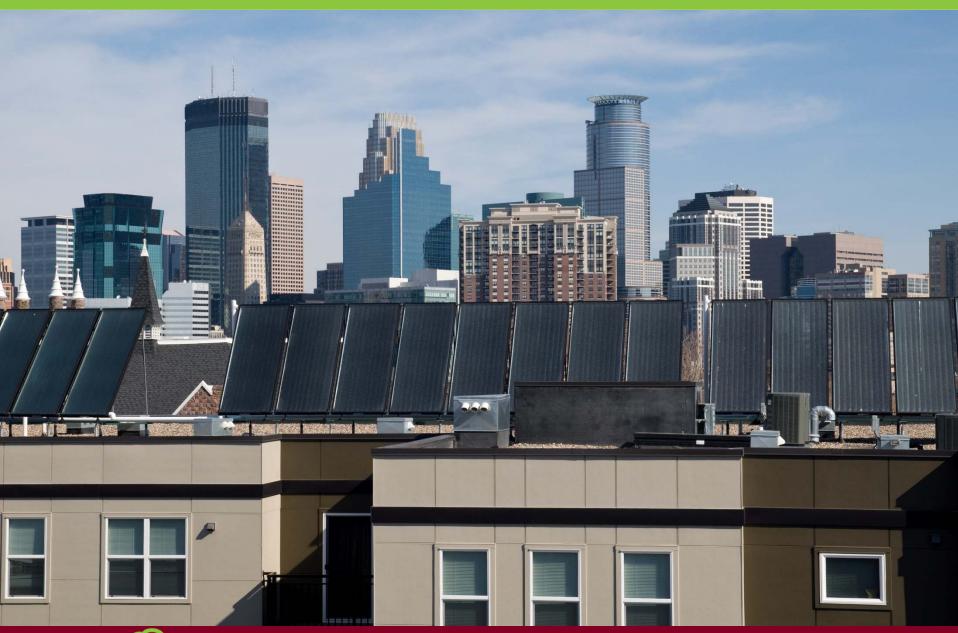








Storm Water Management







Solar Thermal

Team

Aeon

Hope Community

U of MN – Housing

U of MN - CSBR

Cummins Power



Homes for Generations







Financial Partners

Enterprise Community Partners

In - Kind & Volunteers

Target Foundation

City of Mpls – Climate Change

Mississippi Watershed Management Org.

Metro CERT



Sustainable Living - Phases

Goals and Values

Benchmarks/Metrics/Data

Resident Survey

Cultivation of Resident Leaders

Installation of Feedback Meters

Sustainable Living - Phases

Curriculum and Tool Development

Informal Info Sessions

Workshops

House Calls and Community Event

Listening/Voice of the Customer

Evaluation



Values

- 1. Respect for People Residents and Staff
- 2. Clear Communication / Transparency
- 3. Build Community Capacity
- 4. Simplicity, Manageable, Easy to Replicate, Bring to Scale, & Sustain!!
- 5. Impactful Data Driven

Goals

1. Reduce West Use Goals

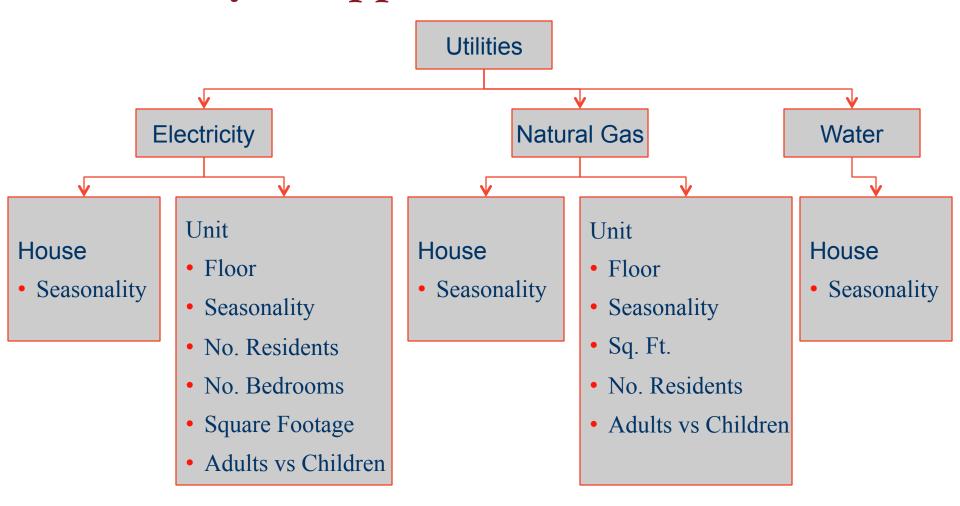
2. Decrease Improve Resident Health

3. Diminish Vand Quality of Life e Recycling

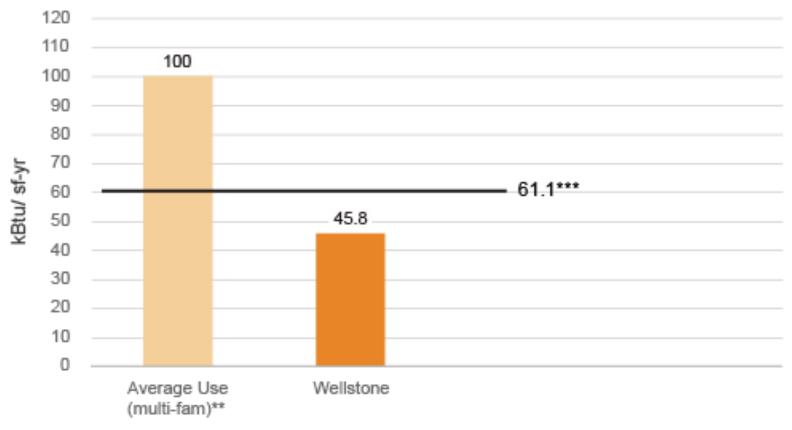
4. Improve Increase Use of Public

5. Adva and Alternative Transportation

Data Analysis Approach



Annual Energy Intensity* Wellstone



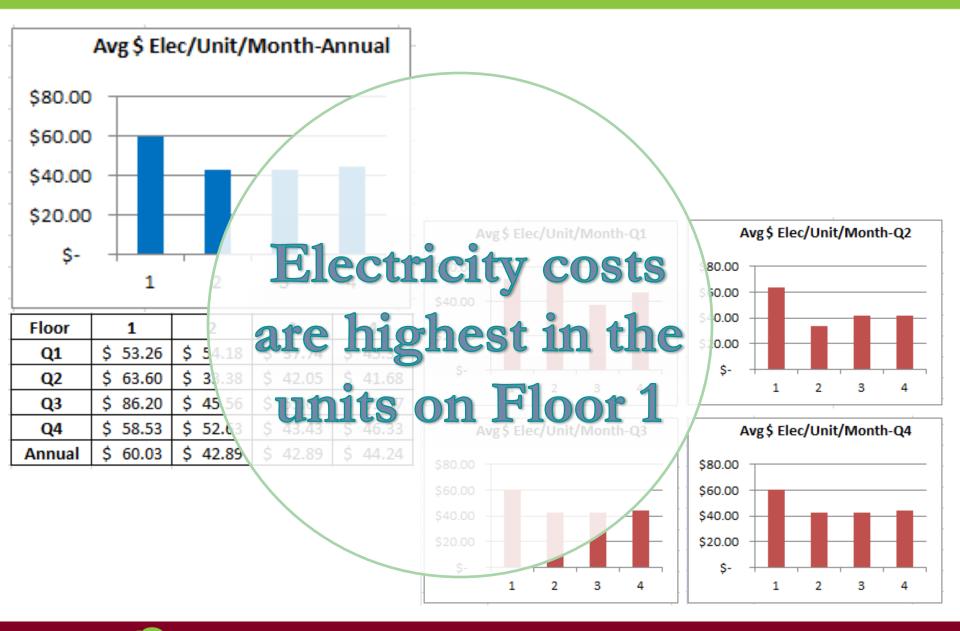
^{*} Weather normalized

^{**}Average energy intensity (multi-family) - 100 kBtu/ sf-yr Based on The Weidt Group multi-family housing modeling code estimate.

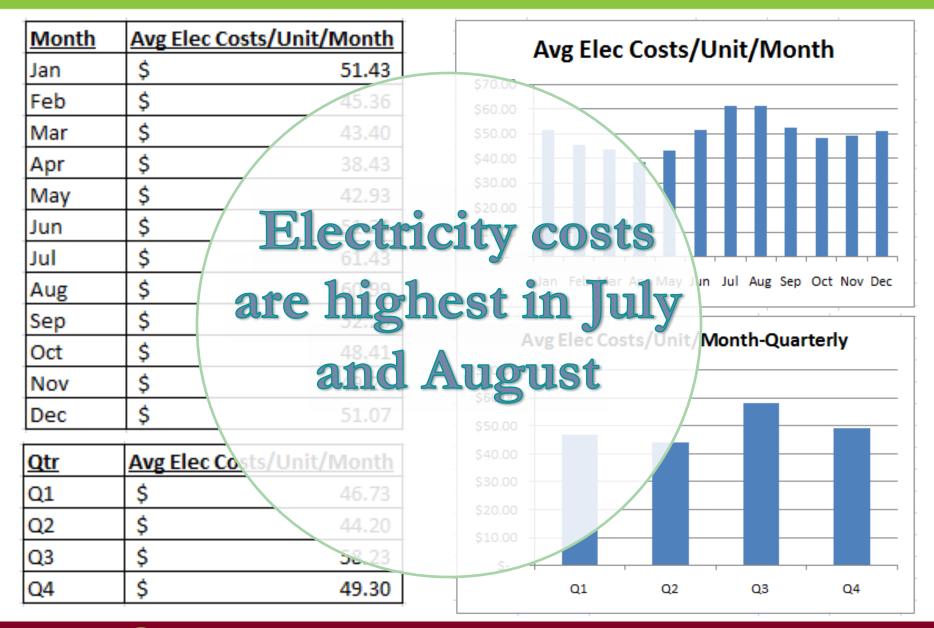
^{***}MN 2030 Challenge Target for 2005-2009

Electricity Summary







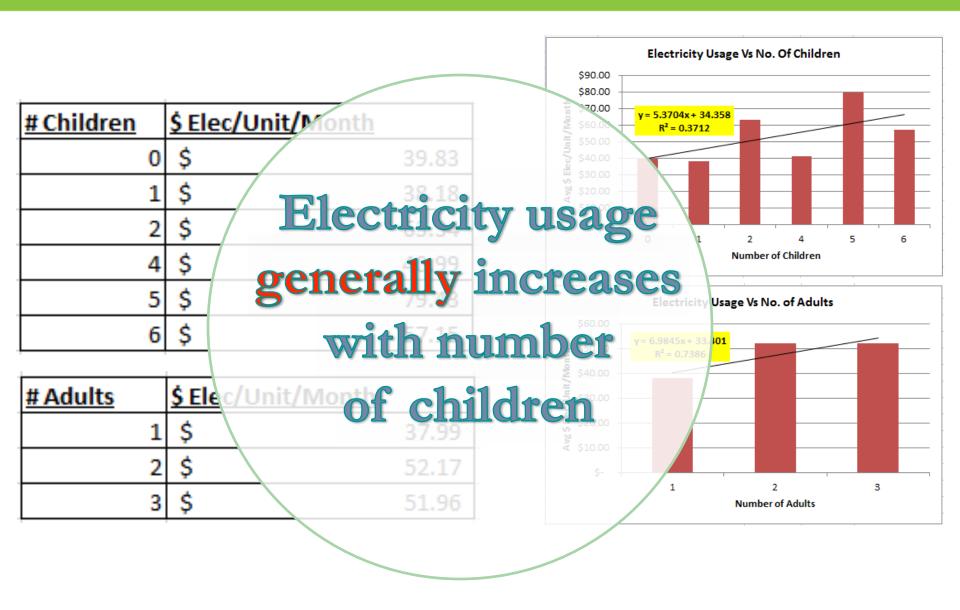




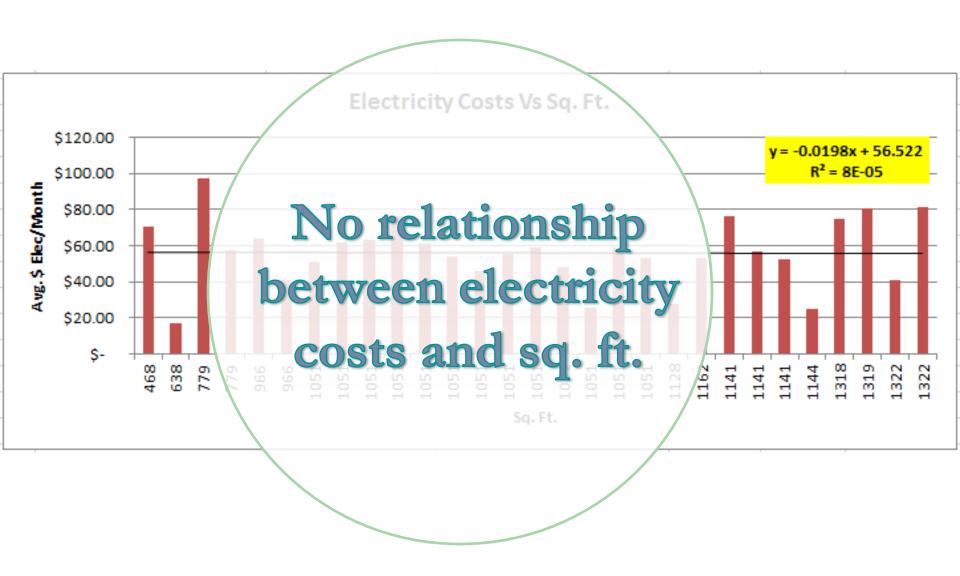




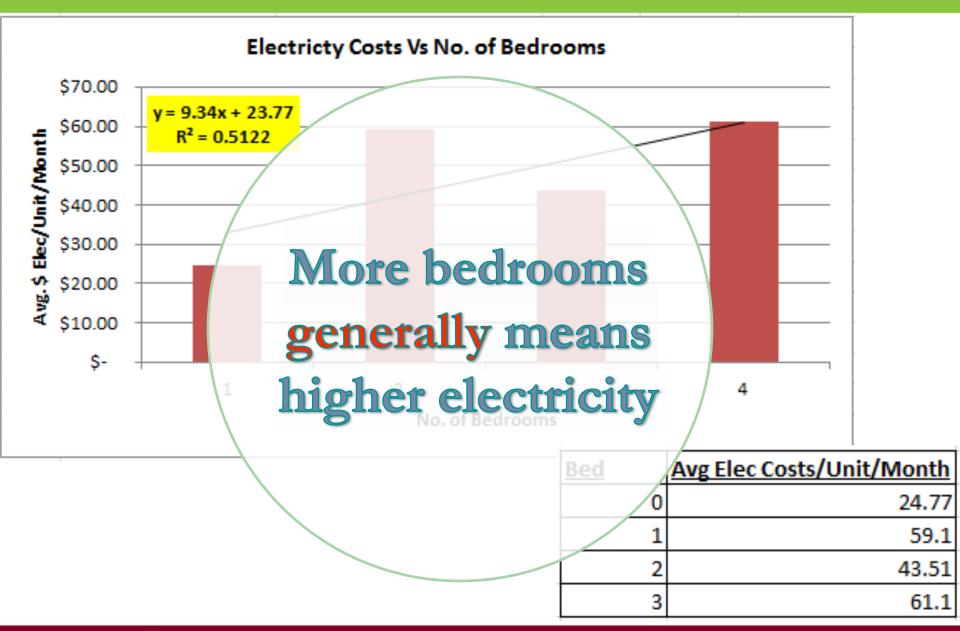
Unit: Number of Residents





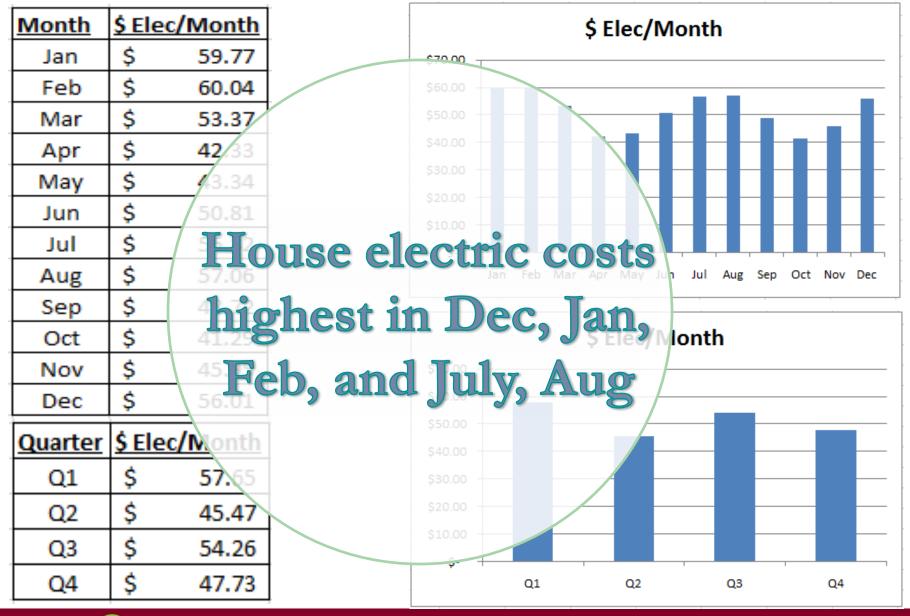




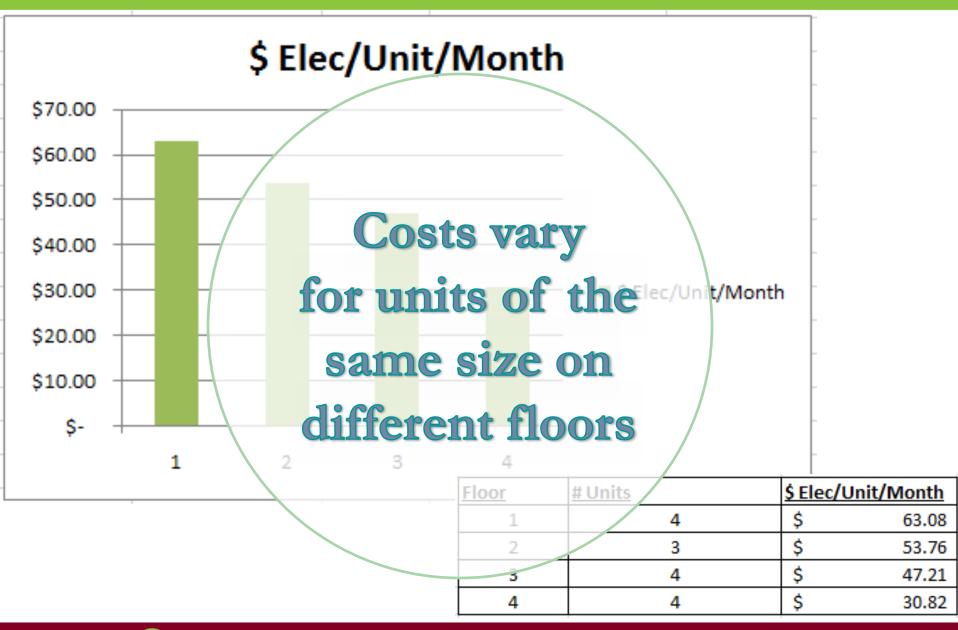




Unit: Number of Bedrooms





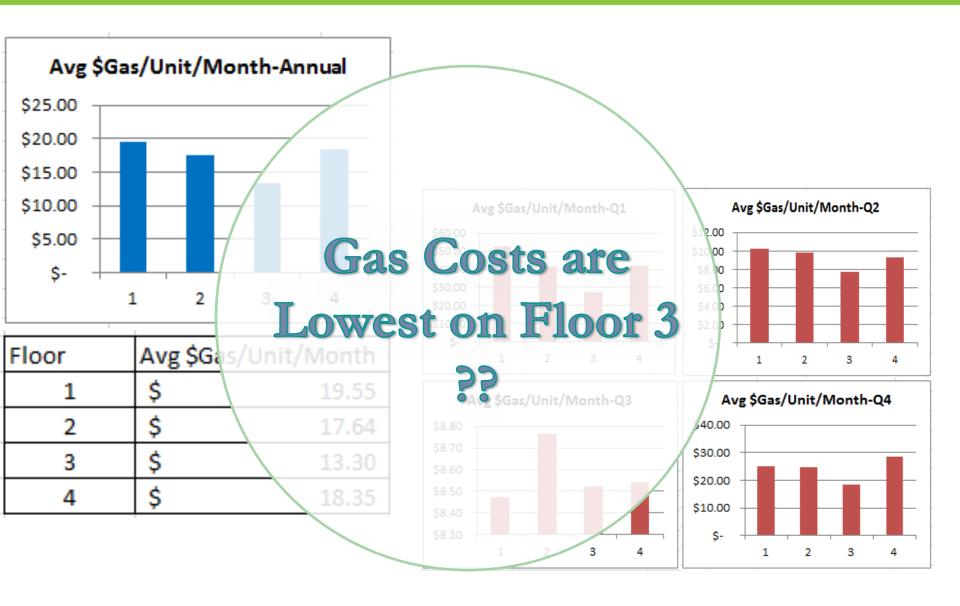




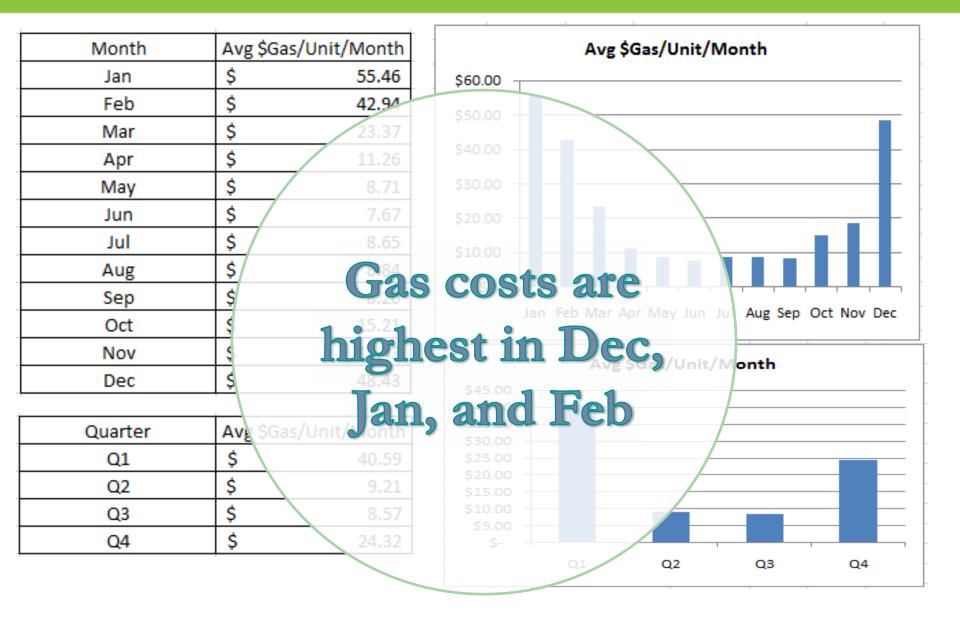
Differences: similar size units

Natural Gas Summary

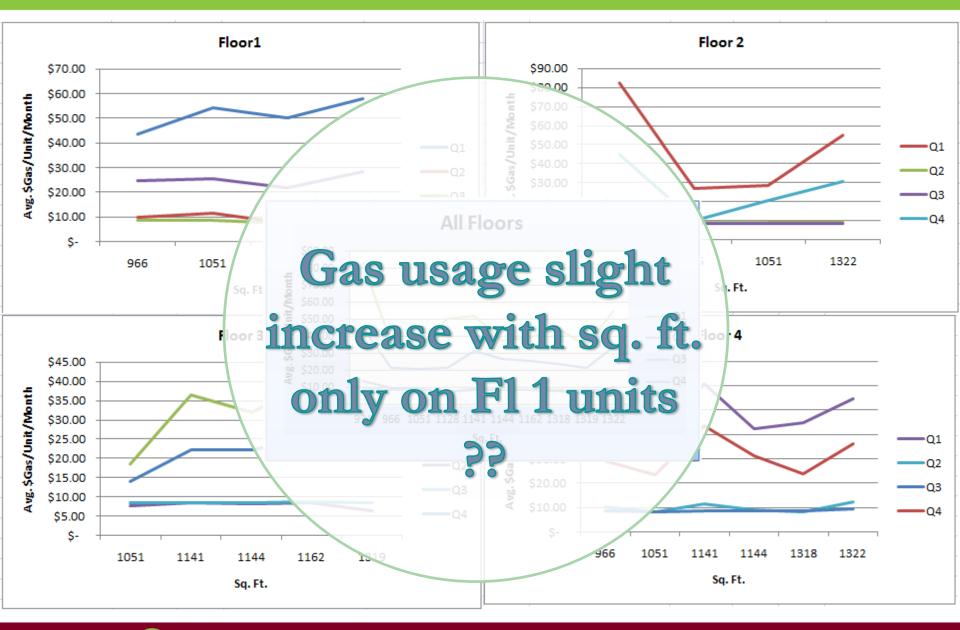






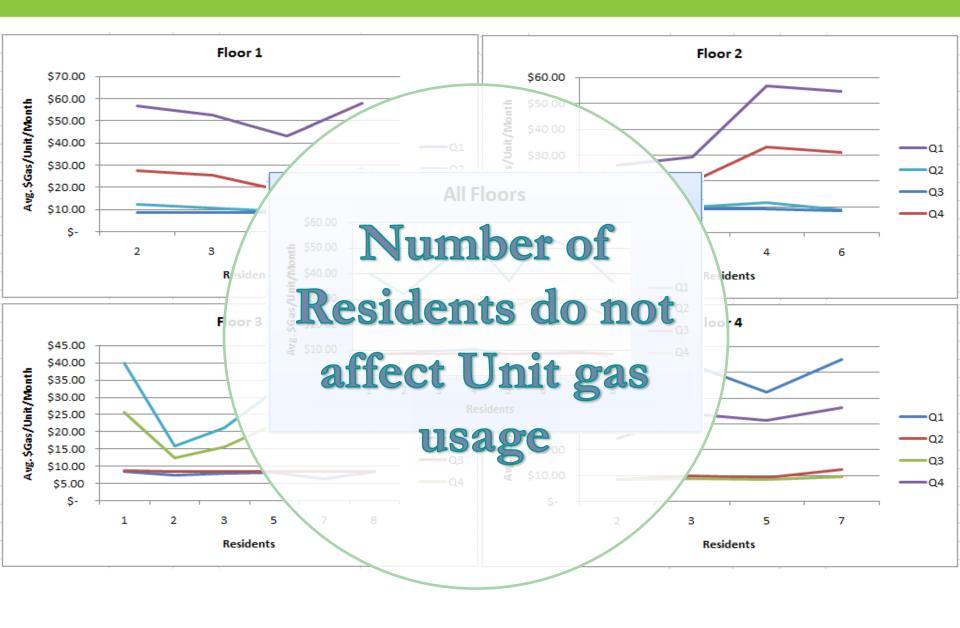






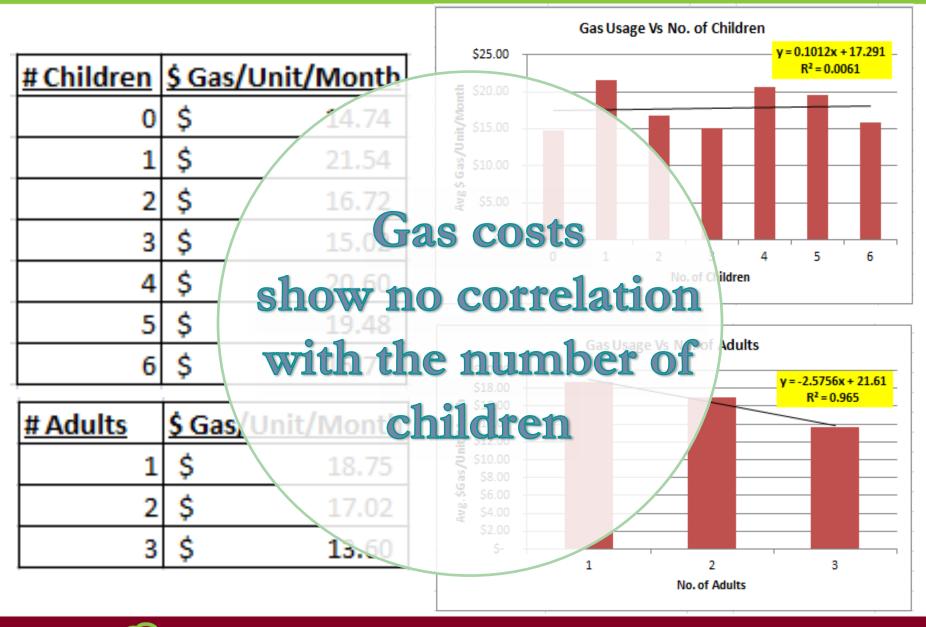


Unit: Area of the Unit

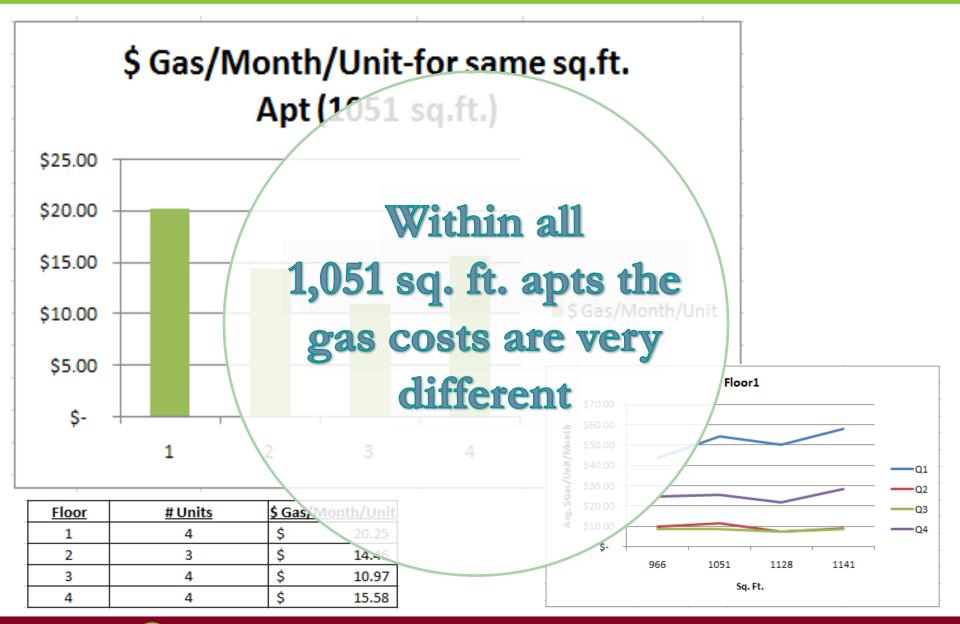




Unit: Number of Residents



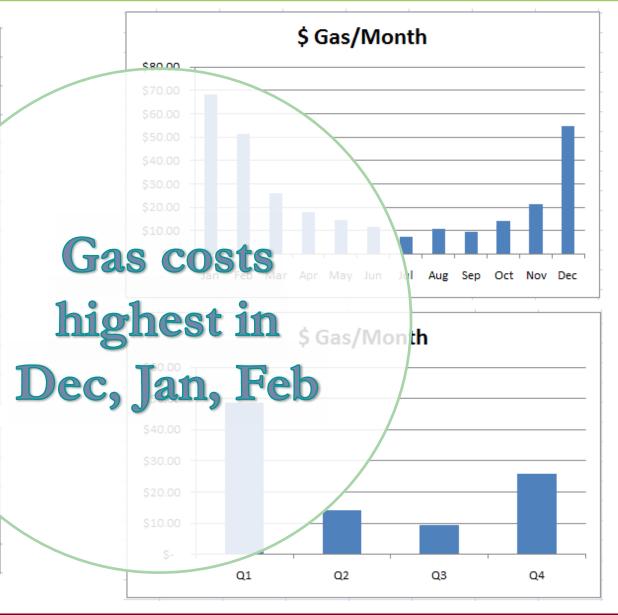






Month	\$ Gas/Month	
Jan	\$	68.10
Feb	\$	51.52
Mar	\$	26.16
Apr	\$	18/ 11
May	\$	14.59
Jun	\$	11.87
Jul	\$	7.57
Aug	\$	10.86
Sep	\$	9.49
Oct	\$	14.04
Nov	\$	21.29
Dec	\$	54.78

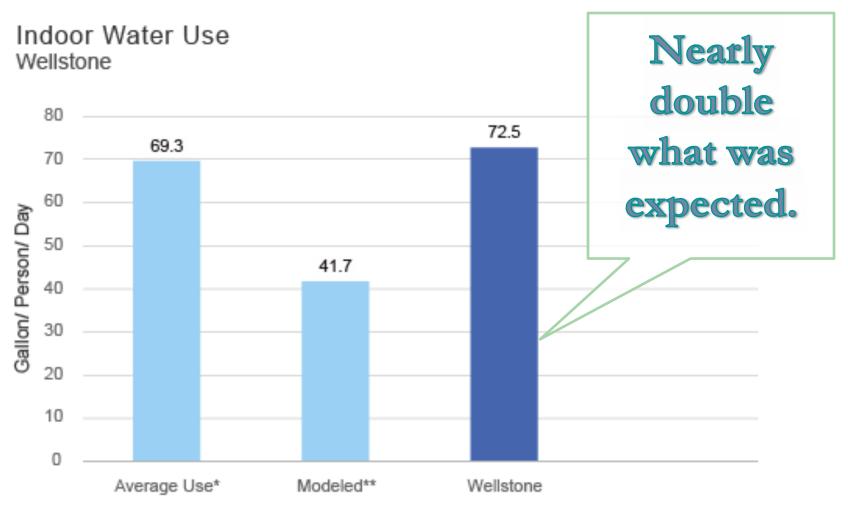
Quarter	\$ Gas/Nonth	
Q1	\$	48 ,49
Q2	\$	14.21
Q3	\$	9.31
Q4	\$	25.71





House: Seasonality

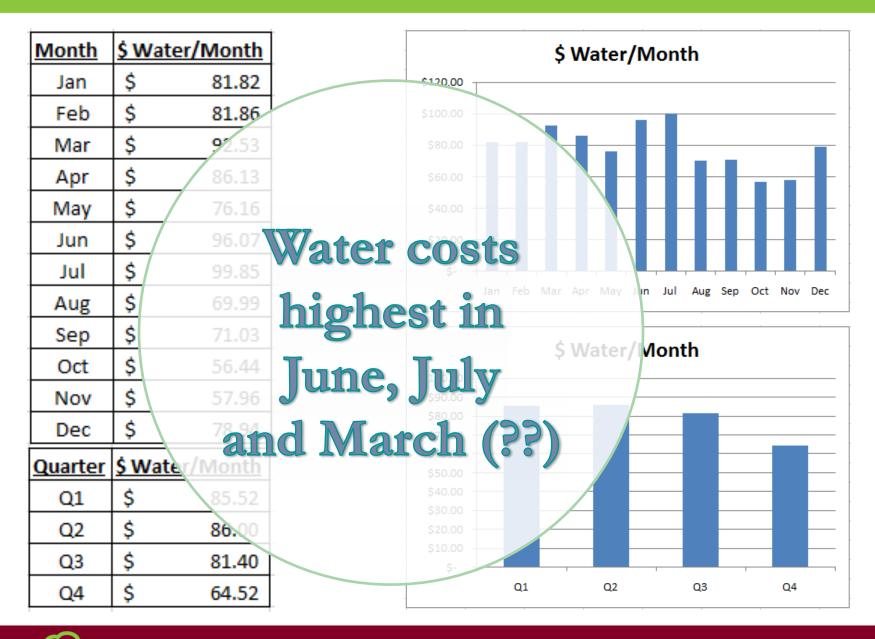
Water Summary



^{*} Average indoor water consumption - 69.3 gal/ person/ day Based on AWWA's drinktap.org project, which uses figures from the Handbook of Water Use and Conservation by Amy Vickers, Waterplow Press, 2001.

^{**} Modeled indoor water consumption based on AWWA, EPA, and "The Handbook of Water Use and Conservation" fixture and use data.





Waeon. Total House (Incl Units): Seasonality



MINNESOTA SUSTAINABLE HOUSING INITIATIVE

Informing Healthy, Durable, and Energy and Resource Efficient Homes

Knowledge Base

Toolbox

Special Projects

Analysis & Recommendations

Environmental Topics

Guidelines & Ratin

ems

Case Studies

Wellstone Apartments

Minneapolis, MN Opened December 2008

The Wellstone Apartments is a four story, 49-unit development at the corner of Franklin and Portland Avenues in Minneapolis. This project is the third of a four phase project being carried. out by Hope Community Partners and Aeon (formerly, Central Community Housing Trust) at intersection of Franklin and Portland. The Wellstone followed Enterprise's Green Communities Criteria with the Minnesota Overlay and is one of the Minnesota Green Communities Ini latives pilot projects. The Wellstone includes a solar hot water heating system which is curren undergoing performance evaluation. As a pilot Green Communities project, the Wellston e also underwent a comprehensive verification process by Advanced Energy and CEE, with the purpose of field evaluating the Green Communities Criteria and assisting with installation procedures.

The building consists of mixed income housing, with 37 affordable and 12 market rate apartments. The building consists of one, two and three bedroom units, with approximately 7,000 square feet of commercial space. The project was developed and is owned by Hope

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www.mnshi.umn.edu





- 23 Apts
- Intro to Project
- Informed Workshops

Voice of the Customer (VOC) and KJ

- VOC aligns products and services to the resident
- KJ Summarize, Characterize, and Prioritize "voices"
- Developed by Japanese anthropologist Jiro Kawakita





Cultivation of Resident Leaders

- 25 Apts
- Mix of Types& Sizes
- Personal Instruction



Curriculum and Tool Development

- Enterprise Toolkit
- Customized to Resident Needs and Building Specifics
- Formal and Informal
- Props worked best

101 Adults51 Children

10 "Kiosks"





Informal Information Sessions



7 Sessions

15 Apts

35 Residents

45 - 60 min.





House Calls

Lessons Learned

- It is Not Easy!!!!
- Who/How to sustain metrics
- Motivating and Sustaining Resident Engagement and Leadership
- Replicate? Bring to Scale??

