



**Imagine Duluth 2035**  
**Energy & Conservation Focus Group**  
**First Meeting – Thursday, February 9<sup>th</sup>, 2017 – 5:00 PM**  
**Room 303, Duluth City Hall**

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1. Welcome & Introductions
2. Brief overview - Timeline & Process
3. Review implementation strategies that have been completed or partially completed from 2006 Comp Plan to determine if the strategy is still relevant
4. Review research questions for the Imagine Duluth 2035 process  
*Do other topics need discussion or further research?*
5. Review preliminary data gathering / identify other potential resources
6. Discuss any other emerging issues for this section of the Comp Plan Update
7. Wrap-Up & Next Steps

## Energy and Conservation – Research Questions

The energy and conservation component of the Comprehensive Plan update will provide an in-depth review of local energy production. It will establish a baseline of local energy production, including methods of production and the levels of emissions associated with those methods, and establish policy direction for future energy production, pollution and emissions reduction goals, and environmental conservation. Specific questions that we're considering include:

1. What is the corporate City's current greenhouse gas (GHG) output? Carbon output?
2. What is the overall City's current GHG output? Carbon output? Per person?
3. Where in the City are the largest GHG emitters? Carbon emitters? For the largest carbon emitting employers, how many jobs per 1,000 tons CO<sub>2</sub> emitted?
4. What is the total electrical usage by all users in the City? What are the major uses?/Who are the major users?
5. What are the sources used for electricity production in the City? What % of these sources are renewable?
6. What structures are part of the district heating & cooling system? Could this be expanded or could there be sub-districts?
7. What are the emerging best practices for sustainable energy for homeowners?
8. Can we quantify the benefits of natural resources to the city, and its value to us? How does this relate to urban conservation? How will this change as the climate changes?
9. Can the City shift the overall picture of regional energy production?
10. What are the specific sources of pollution resulting from our energy use, and what are the impacts of this pollution on the city/region?
11. How does our water and gas production and use compare to peer cities? What are operational and technical best practices?
12. How much waste heat is emitted in this city? What are the major generators? What percentage is being captured and reused and if not, why not?
13. How much residential and commercial energy could be saved through low cost conservation measures and what are best practices for implementation?
14. How does our electricity production and use compare to peer cities? What are operational and technical best practices?
15. How much of the Steam Plant GHG emissions are from corporate City use? How much are from commercial uses? How much are from industrial uses?
16. How could we reduce the emissions from the Steam Plant?
17. What are best practices we could use to reduce transportation and industrial GHG emissions?