



**TCAAP EIRF
10-9-14 ERAB Meeting Minutes**

- I. Attendees
 - a. *Lyle Salmela – ERAB Chair*
 - b. *Jim Ostlund – ERAB*
 - c. *Andrew Holewa – ERAB*
 - d. *Kate Knuth – ERAB*
 - e. *Brenda Holden – JDA Liaison*
 - f. *Ryan Streff – City of Arden Hills*
 - g. *Greg Mack – RC*
 - h. *Zack Hansen – RC*
 - i. *Mary Karcz – RC*
 - j. *Ken Smith – EGE*
 - k. *Anders Rydaker – EGE*
 - l. *Michael Ahern – EGE*
 - m. *Jenny Edwards – CEE*
 - n. *Megan Hoye – CEE*
 - o. *Michael Noble – Fresh Energy*
 - p. *Sarah Lynch – Fresh Energy*
- II. ERAB members, County Staff, and Consultant Team introduced themselves
- III. The Agenda was approved
- IV. The 9-11-14 meeting minutes were approved
- V. Vision Statement and Guiding Principles Discussion
 - a. Kate offered alternative language for the Vision Statement to make it a more powerful statement.
 - b. Lyle's and Andrew's comments were incorporated into the guiding principles
 - c. The Vision Statement and Guiding Principles were approved under the caveat that EGE would update the language based upon the above notes. The revised document is **attached.**

- d. Brenda asked for the Vision Statement and Guiding Principles to be provided as a stand-alone document for sharing.

VI. White Paper Discussion

a. General Discussion/Comments

- i. The team discussed how the ideas can be presented for action without coming across as mandates
- ii. The purpose of the White Paper is to set our sights high
- iii. Page numbers should be added
- iv. The City expects that neighborhoods are likely to form associations or cooperatives
- v. The White Paper needs to place more emphasis on the important early infrastructure investments that will allow future leveraging of technologies (e.g. broadband, district heating and cooling pipes, etc.). This should be called out early in the paper with a discussion around the urgency for implementation.
- vi. Thermal infrastructure could be different for different areas of TCAAP (e.g. district energy in the Town Center and water-source heat pump in the residential areas)
- vii. Overall comments provided by Lyle in the **attached** document

b. Energy Development Scenarios

- i. May be better presented as “opportunities”
- ii. Try to address workers and other visitors under one of the opportunities
- iii. Be sure that people can identify with these opportunities
- iv. Under “Community Educators”, there should be some tie to the local school district’s “STEAM” program

c. Evaluation Methodology

- i. The scoring idea was received favorably
- ii. Additional weighting should be placed on those options that have co-benefits
- iii. The methodology description should be placed immediately before the evaluation matrix
- iv. Explanation of each option should be explicit about the benefits that it provides
- v. Options should describe if they are exclusive to initial development or may be applied when areas are redeveloped in the future

d. Demand Side Management (DSM)

- i. The White Paper will identify codes/standards/regulations that will incentivize these options
- ii. Incentives could come from the State or nationally as well
- iii. Measurement of performance will be important
- iv. Education is an important component of DSM
- v. Building orientation probably should be brought up in DSM

e. Energy Supply Alternatives

- i. Wind generation will be added as an electric option

VII. Other

- a. Contacts are being made with AHATS and Xcel. Notes circulated as appropriate.

b. Upcoming Schedule:

- i. Draft White Paper to be supplied to the ERAB 11-20
- ii. White Paper draft discussion on 11-22
- iii. All comments provided to EGE by 11-23
- iv. Final version to be provided by 11-29

- c. Except for the 11-3 & 11-10 meetings, future meetings will be at 6 pm

TCAAP VISION STATEMENT

TCAAP will be a vibrant development that leverages long-term energy conservation and resilience to attract investment and partnership, and achieves sustainable benefits for Arden Hills and the surrounding community.

GUIDING PRINCIPLES:

- Establish TCAAP as a national model for development of integrated energy systems
 - Develop a transparent model that garners national attention and local community pride
 - Deliver environmental, economic, and social benefits to the community beyond the TCAAP site
 - Deliver a high-quality model that provides educational opportunities for the greater community
- Develop a resilient community for energy and other utilities
 - Endeavor to make investment in renewables economically attractive
 - Pursue opportunities that reduce consumption, capture residual energy, and reuse local resources
 - Be self-sufficient to the extent possible and practical using local and renewable sources of energy
- Implement infrastructure solutions that are flexible and scalable over the next 50 years
 - Cultivate a platform that enables integration of future technological advances and more efficient forms of energy
 - Develop a smart grid on the TCAAP site
- Deliver a model of efficient energy and water usage that minimizes TCAAP's impact on the environment
 - Introduce a comprehensive policy approach that promotes efficient utilization of all resources
 - Foster the advancement of behaviors and technologies that decrease the consumption of energy and natural resources.
- Create an economically competitive and attractive environment for developers and businesses
 - Build a framework that is financeable, high quality and sellable in private markets
 - Prepare TCAAP to become a vibrant community that attracts people, developers, businesses, and connects to surrounding communities

TCAAP SUSTAINABILITY AND ENERGY RESILIENCY WHITE PAPER/EIRF –
Recommended Input:

1. What is sustainability and why?
 - To design and manage energy and natural resources to minimize depletion and environmental affect on future generations.
 - Energy impacts most of TCAAP design, in 4-7 below – other consultants
2. Smart Electric/Energy Grid
 - To optimize energy resources for economic and environmental gain.
 - To reach out, partner and model energy grids with Xcel Energy and the National Guard AHATS development.
3. Energy Options and TCAAP Potentials - PARTNERING
 - Nat. Guard (AHATS) – Solar farm, thermal grid, recreation, education, tours
 - Xcel Energy – Smart Grid, solar farm, wind, education, research
 - U of M – Sustainable building design, regulations, research, education
 - Metro Transit/ Met Council – Fleet battery charging research, other
 - Developers – Work to enhance their expertise
4. Energy Sustainability Design Criteria – economic incentives
 - Energy conservation and health criteria for all structures and energy uses.
 - Work with the U of M Center for Sustainable Building Research (CSBR) – what is applicable to reach energy goals – codes, standards, rules, regs.?
 - Have individual, homeowner assn. or development energy choices.
5. Landscaping and Stormwater Design and Recycle
 - Design and manage surface water usage and impact.
6. Transportation and Parking
 - Design for less polluting and energy consuming transportation
7. Parks, Trails and Open Space
 - Design for density while preserving green space through more vertical than horizontal structures.
 - Partner with City, County, NG/AHATS, Schools Colleges Amateur Sports DNR and others to enhance physical and mental health.
8. Education and Community Outreach
 - Reach out to guide and inform all who will be impacted by sustainable design and TCAAP/AHATS developments.
 - Work with the JDA, City, County, NG/AHATS, Xcel, U of M, colleges, other
 - Distribute white paper – send out before meeting with partners