Knowledge Building
EGR 325
Fall 2014
Knowledge Building

We want to better understand our world:
1. What curiosities do you have about electricity, energy services and the power system?
2. What do you want to be doing to develop your ability to build knowledge?
   - To find and frame problems
   - To engage in collective idea improvement
   - To engage in *meta-discussion* on your problem
3. How do you want to structure idea improvement and knowledge building for this semester?
   - How do you want to organize yourselves?
Knowledge Building Questions

- A question that asks why, or how
  - not a simple yes/no question
- A question for which you can propose or develop theories
- A question that encourages everyone to investigate further and increase your collective understanding
  - And improve your ideas
- A question that encourages the community to engage in *meta-discussion*
  - Whether or not the group is making progress in terms of your question
  - If you need to develop a new question or have the current question evolve to reflect your improved understanding
Knowledge Building Principles

- **Pushing at the knowledge edge**
  - Identify holes and inconsistencies in (your own and) the group’s knowledge, and ask productive questions.
  - Pose problems that extend the edge of the understanding of the community.
  - Pose problems with potential for continual discussion and inquiry.

- **Progressive problem solving**
  - Show sustained inquiry. Keep asking questions.

- **Collaborative effort**

- **Monitoring your own understanding**

- **Constructive uses of authoritative sources**
  - Help explain why you introduce a citation or link, rather than posting for others to figure out the significance.