Transforming the power system

Today, fossil fuels are the primary fuels. Tomorrow, the weather will be the main fuel.

Re-inventing the Grid by Incorporating Meteorology into all Aspects

- All generation types have costs, benefits and challenges
- Current operating practices are optimized around thermal generation
- VER challenges are different
  - Market/system redesign is needed
  - Well thought out transmission planning is needed
- The value of meteorology is inextricably linked to system and market design and transmission planning
  - Its contribution MUST be understood in a holistic fashion as we re-optimize towards high RE penetration
  - The value is minimal when it is an afterthought as it is currently

Session product

Need increased collaboration, strategic planning, and use of atmospheric science throughout the lifecycle of wind and solar plants.

This will yield better decisions for increasing efficiency and optimization of the electric power system of the future.