Categories for Power Efficiency

- Category I: Uniquely Exascale (Meeting 20MW Goal)
  - Power Performance monitoring & aggregation that scales to 1B+ core system (common to perf tools)
  - Power Control system that can disseminate control decisions across 1B cores (common to perf tools)
- Category II: Exascale plus trickle down
  - Scalable control algorithms to bridge gap between global and local power models
  - Power-aware and scalable resource control & scheduling (different from Cloud DC algorithms)
- Category III: Primarily Sub-exascale.
  - Optimally tune system power based on control loop
  - Power instrumentation & control standardization