

Report from Session One 1/2

- labs with high peak loads and low average load are “bad customers” with high electricity bills - negotiations can lead to favorable tariffs, if consumption is adapted to supply (voluntary peak shaving)
- superconductors help reduce energy use and heat loads, more efficient high temperature superconductors (HTS) are under development
- heat recovery only viable if temperatures can be high and if district heating is already available (as a client)

Report from Session One 2/2

- energy quality is crucial for many facilities
- combinations of accumulators (e.g. flywheels) and generators (e.g. diesel or gas) provide energy supply with high quality to vital equipment, allowing peak shaving and blackout start
- important to maximize thermal energy use in system, (e.g. with heat pumps) - use boilers and chillers only for peak load