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Location of Battery Storage Units

Historically it made sense to have energy storage systems close to their load center. The energy was produced during off peak times and could easily be transmitted on a lightly loaded transmission line or pipeline. Today we use solar energy, and its production happens to be maximum during a high load period on the grid. This means that if the battery storage is near the load center the transmission lines have to carry even more load to charge the batteries as well as the load center demand.

Surely it makes more sense to have the battery storage at or near the solar power plant. This way, when surplus solar energy is available, it can be used to charge the batteries and for the energy to be used later, to feed the load center when the sun is not shining and transmission lines are lightly loaded. With this approach transmission lines will have a more distributed load and can be used for higher capacity while incurring lower heat losses.