# Notes

What other real-world constraints would you add?

* Battery degradation (as it was two days, it doesn’t make sense to add it)
* Prioritize battery to stay between 20-80% of SoC
* Dynamics capacity PPAs
* Allow PV spilling at 0 costs.
* Loses in transmission
* Minimum up/down times rates for batteries.
* Create scenarios where there are low-PV, medium or high PV electricity production.

How would you adapt your model for longer horizons or minute-level timesteps?

* Solve in shorter TS (one day at a time) and pass end-of-horizon SoC as initial condition for the next window.
* Reduces model size while still capturing long‐term dynamics. (I.E reducing variables)
* Variable resolution: fine resolution during critical hours (day), coarser elsewhere (night).
* Switch to a commercial MILP solver (Gurobi).

Solution B:

* In code cell #New Solution and specifically in #####Markdowns