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Energy use for cooling

BLUF: Trying to keep thousands of super-hot computers cool in a super-hot desert takes a ton of extra energy, making it really hard to be as energy-efficient as promised.

The document states that the average temperature in the summer in Inyokern is 107 F. Blowing hot desert air on hot computers doesn't cool them down. The cooling systems will have to work harder and take extra power. The PUE of 1.41 is misleading as it requires winter temperatures to balance out the annual average. In the summer, the PUE might be at 1.60 â€“ 1.80 with air-cooled units and in the winter it is 1.10 to 1.15. During the summer, we should be expecting the air conditioning units will be running at 100% capacity and relying on the backup generators consistently due to the power strain on our grid. I don't want rolling black outs all summer.

The document reference: TN271057_20260629T100453_Appendix A Supplement - Section A4