Student worksheet: keep the lights on

Play Electricity, Generators, and Storage at electrifygame.com. Use observations from the game to explain your answers.

Names _____ Date _____

1. **Predict, then observe.** How will a grid with lots of solar power meet demand after sunset? In Mission 1, what happens to solar output as daylight fades? Which plant still supplies power?

2. **Compare two generators.** In Mission 2, name the two options you looked at. Record a cost or build time for each and explain which you'd choose for an evening shortage.

3. **Follow the stored energy.** In Mission 3, where did the electricity to charge the storage come from? When did storage supply power? What would happen if it emptied too soon?

4. **Recommend a plan.** Would you add a generator or store surplus power to cover the evening? Use two observations to support your choice. Name one tradeoff and one piece of data you'd need before using your plan in a real town.