

QUIZ SOLUTIONS

1. Continuous process facilities (facilities with consistent demand profiles) are expected to have more charge and discharge cycles of an energy storage system (ESS) to flatten the demand?
☐ True
☒ False
2. Intermittent process facilities are expected to have higher capacity ESSs?
☒ True
☐ False
3. The ES capacity (kWh) and number of cycles depends on the ESS selection?
☐ True
☒ False
4. Flywheel ES (FES) is the most cost-effective demand reduction (DR) solution?
☐ True
☒ False
5. Which of the following ESSs has the highest energy and power density (smallest volume when installed at the same DR/capacity)?
☒ Li-ion ES
☐ Supercapacitor ES
☐ Flywheel ES
☐ Pumped hydro ES
6. Larger ESSs (larger DR) result in flatter demand profiles?
☒ True
☐ False
7. Flatter demand profiles allow power generation plants to operate at their highest efficiency because there is less ramping to satisfy unpredictable demand?
☒ True
☐ False