

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