

TES vs BESS

	TES	BESS
 Use and versatility	High: harnesses heat energy, which can be maintained as-is or converted into electricity	Low: exclusively uses electrical power
 Energy density	Varies depending on the tech used in the project	High
 Cost	High initial investment , but medium to low operating costs	Moderate or high initial investment , depending on the project size. Moderate maintenance costs due to battery degradation
 Scalability	High : especially in large industrial projects and solar plants	Medium : suitable for domestic or grid scales with technological limitations
 Efficiency	High when releasing heat , low when converting to electricity	High : notable for its rapid availability
 Storage	High : varies from days to weeks depending on the technology used	Medium-low : ideal for hours of supply
 Maturity level	Medium : rapidly developing technology, but low market adoption	Medium-high : technology widely introduced into the market
 Environmental impact	Low if easily recyclable materials are chosen	Medium due to mining for materials such as lithium. Hard to recycle