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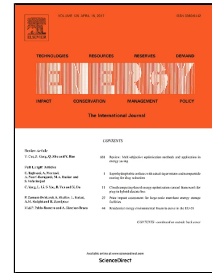
A Novel Compressed Air Energy Storage (CAES) System Combined with Pre-cooler and Using Low Grade Waste Heat as Heat Source

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A novel CAES system combined with pre-cooler is introduced.
Proposed PC-CAES is more compact than A-CAES by using free waste heat.
Air conditioner is utilized as pre-cooler to precool the inlet air of compressor.
Efficiency improvement is achieved via cool down the compressor inlet air temperature.

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