

ThermoPhotoVoltaics for Thermal Energy Storage

Antora Energy, Inc.



ENERGY TECHNOLOGIES AREA

ENERGY STORAGE & DISTRIBUTED RESOURCES DIVISION



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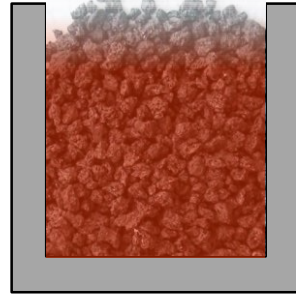
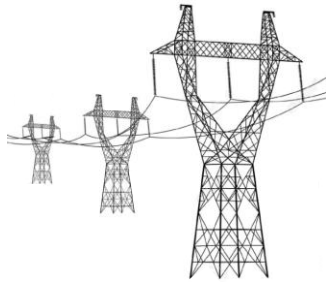
Cheap Thermal Energy Storage


electricity in

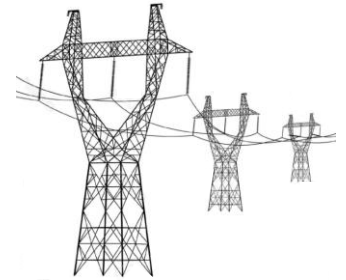
thermal storage

photovoltaics

electricity out




thermal
radiation



petroleum coke
(373 MMt per year)



photovoltaics (PV)
(20 GW per year)



Matching Gas Turbine Efficiency

Recently set record single-junction TPV efficiency:

$$h = \frac{\text{Electricity out (W)}}{\text{Heat in (W)}} > 30\%$$

