



**ANTORA**

Decarbonizing industrial energy  
with cheap, clean electricity

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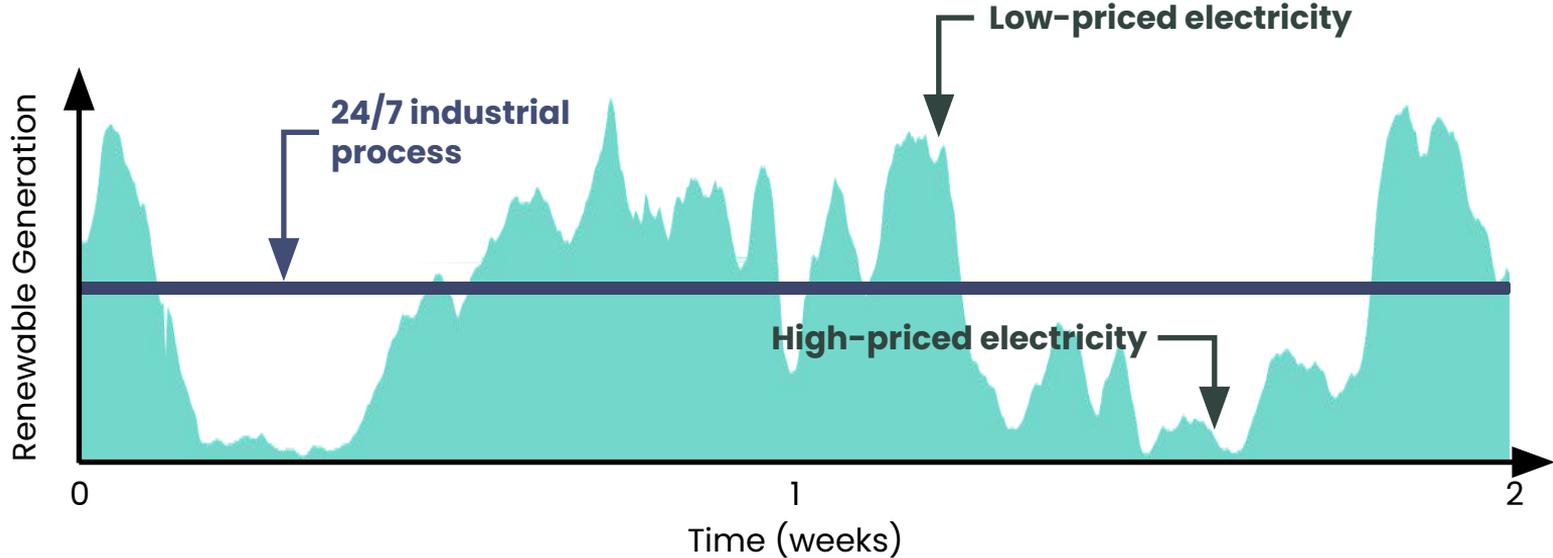
# Wind and solar represent the lowest cost sources of industrial energy

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# But intermittency in renewable power is incompatible with industrial requirements

Industrial processes require reliable energy inputs and can't afford to shut down when a cloud passes by...

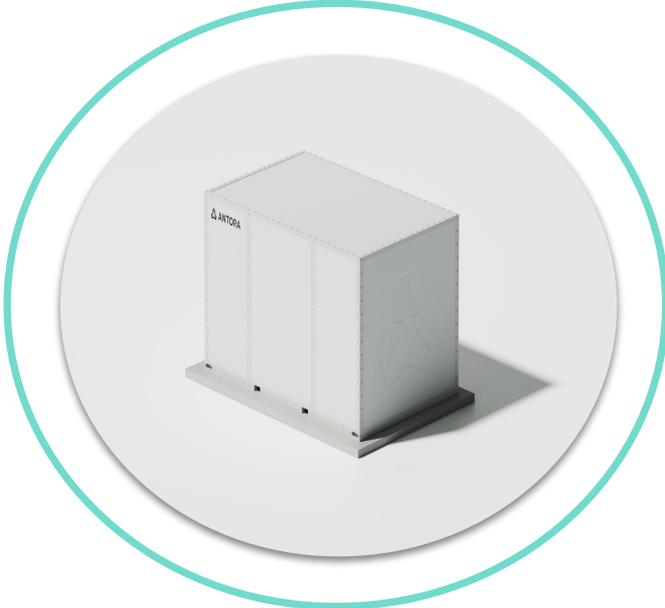
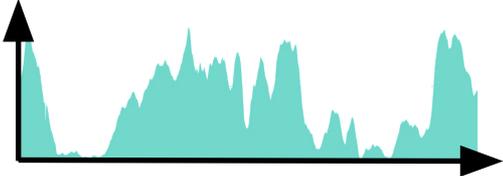


# Antora converts intermittent renewables to continuous, reliable process heat and power

Proprietary multi-day thermal energy storage product unlocks full potential of renewable resources to minimize operating costs and carbon emissions

**Input:**

Cheap, clean, intermittent renewables



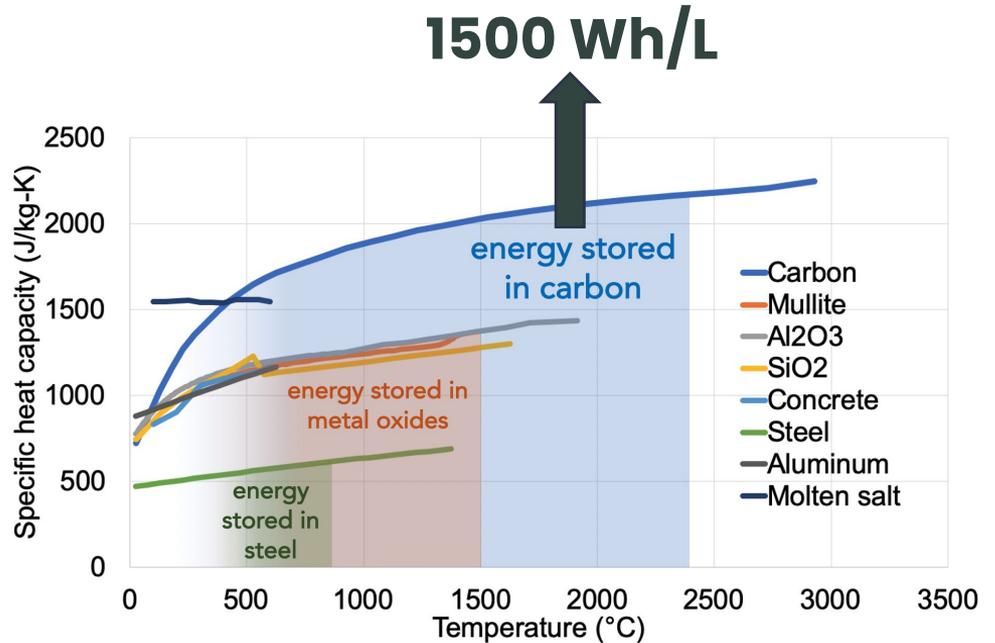
**Output:**

Cheap, clean, reliable heat and power



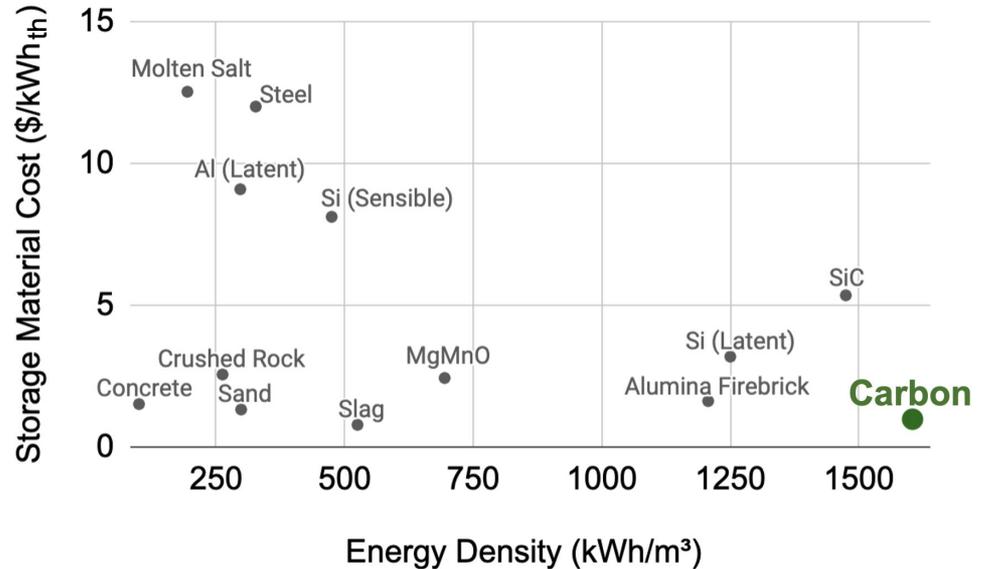
# Why carbon? Low cost, highly scalable, excellent properties.

- Ultra low cost ( $\$1/\text{kWh}_{\text{th}}$ )
- Existing supply chain
- High thermal conductivity
- Access to high temps
  - High energy density
  - Cement, steel, glass
- High specific heat



# Why carbon? Low cost, highly scalable, excellent properties.

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**Carbon is a stellar storage medium because it is:**

**simple**  
**energy dense**  
**scalable**  
**cheap**

**Remains solid during operation**

**This photo contains 1 GWh of storage**

**\$1/kWh,  
~30x less than Li-ion batteries**

**Already produced for other industries at ~30 megatons/year**



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# Reconfiguration of proven industrial technology

Product adapted from graphitization furnace with addition of insulated enclosure and energy extraction system



# Demonstration system

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Antora is currently building a pilot unit at the site of a CA IPP to demonstrate the product.

The pilot is representative of Antora's repeating module that is the basis of all projects under development.

The system will demonstrate real-world dispatch based on market conditions, outputting a controlled flow of process heat and electricity.





Demonstration system

# We have a pipeline of over 2 GW of storage projects identified

Ethanol & chemicals

Food & beverage

Agriculture

Mining

Cement

Paper & pulping

District heat

Oil & gas

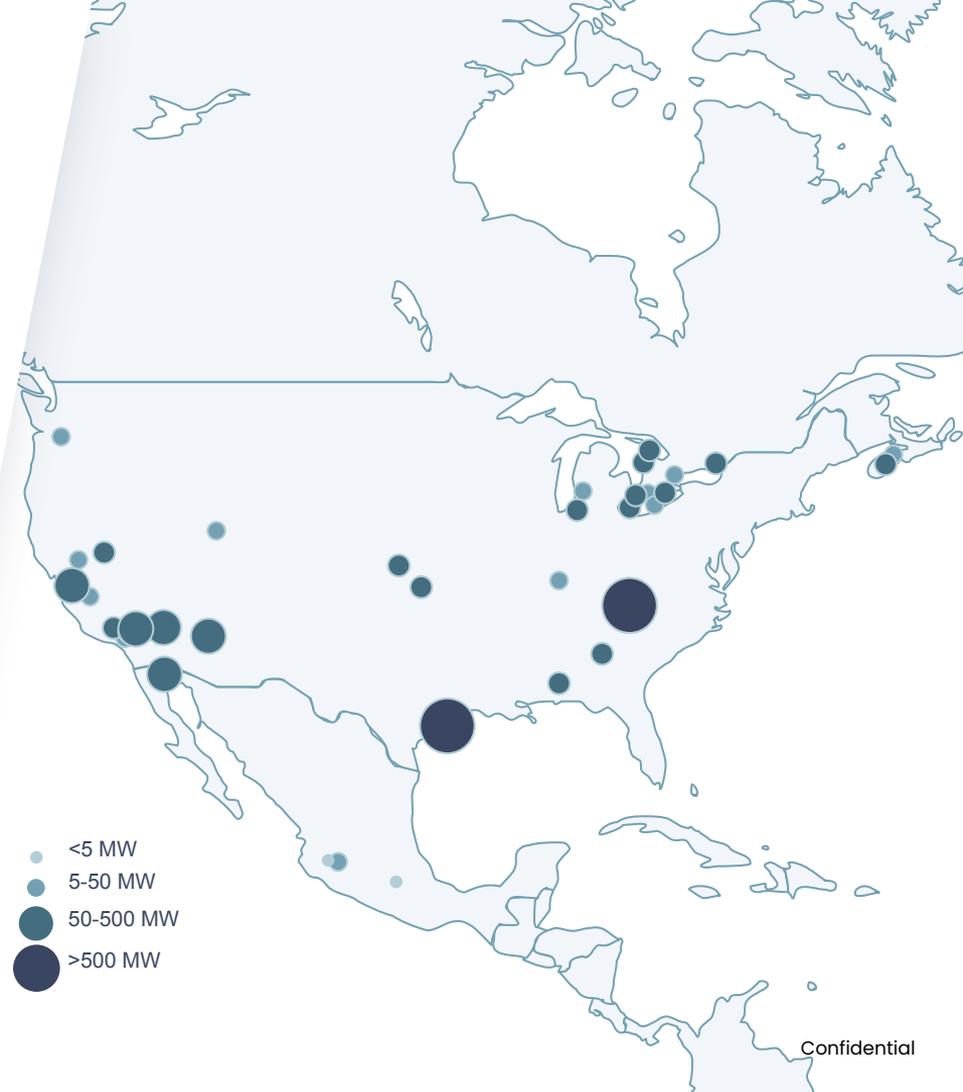
Power sector

Automotive

>1 GW of customer LOIs



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Other possible slides to include below, either  
as backup or as primary

# Antora provides on-demand clean power and heat—cheaper than fossil

- 24/7 resilient heat and power, with zero emissions, across nearly all US manufacturing verticals and the grid.
- Industrial heat up to 1500°C, in the same form the customer already uses.
- Modular, factor-built units with US manufacturing and supply chain.
- The lowest-cost pathway to zero emissions: Cost-competitive with fossil-fuels.
- Globally-scalable. No critical minerals. US-sourced storage media.

