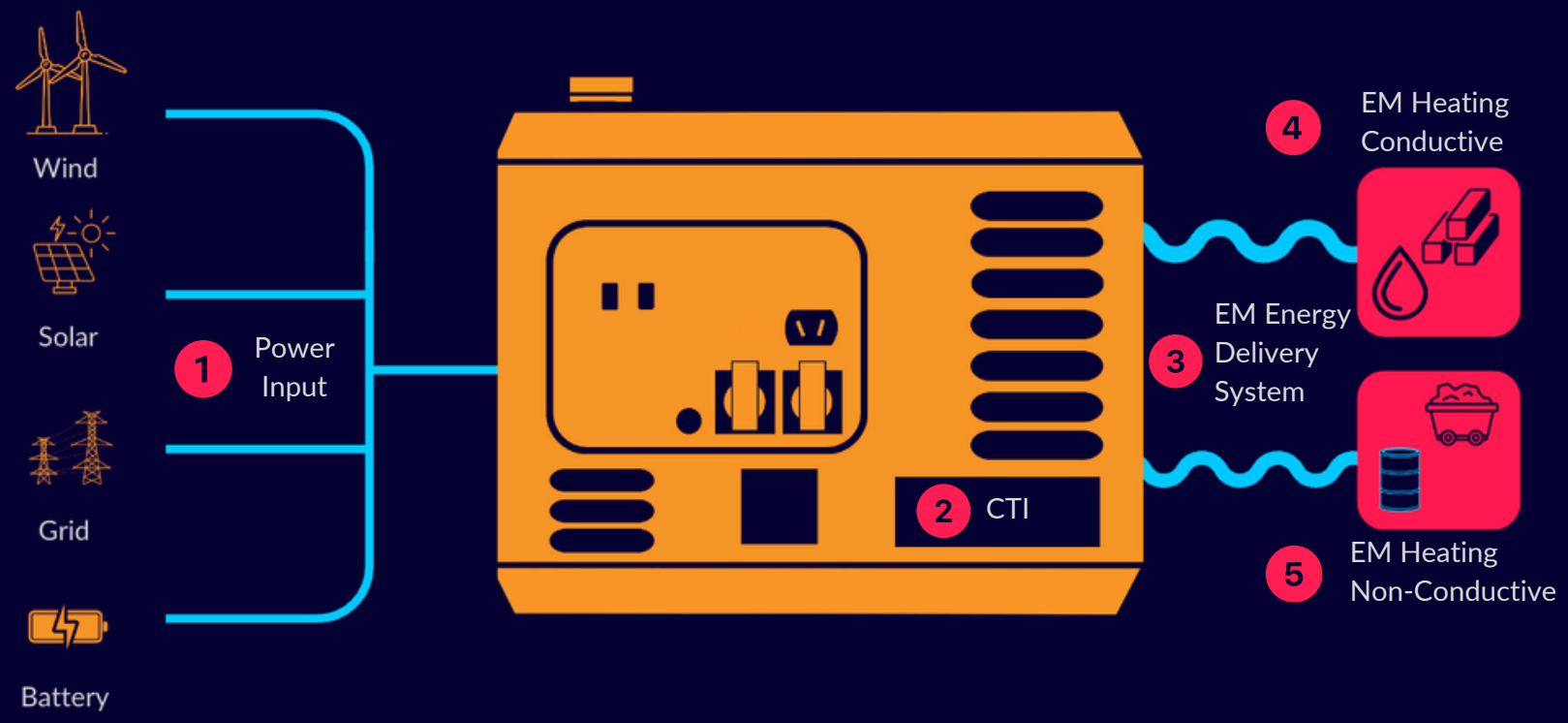
EMPowered Heat & The Clean Tech Inverter

The question is not “how can I electrify?” but “how can I electrify economically?”



By coupling electromagnetic (EM) energy directly to materials being heated, EMPowered Heat requires 40% - 60% less energy to operate and is economic at industrial scale, high temperature, or high power.

The platform scales economically, and can also operate on intermittent power, driving unrivalled efficiency and value.

acceleware
EMPower Your Heat

1 EMPowered Heat is an all-electric process heat platform for high temperature or high power applications.

- The CTI's flexible front end can accept grid AC power or zero carbon AC and DC inputs
- Can run on intermittent power for max value from renewables without the cost of storage
- Minimal maintenance and small footprint

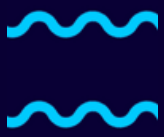
→ **Zero Scope 1 and reduced or near zero Scope 2 (depending on input source) GHGs.**

2 98% of electricity input is converted to EM energy and delivered as useful heat.

- The only large-scale clean technology that offers a material reduction in energy consumption, rather than only emissions abatement to baseline energy consumption

→ **Lower energy input reduces operating cost for long term competitive advantage.**

3 Instant on/off EM energy delivery system provides precision control.

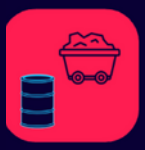


- Can accurately and instantly control and maintain target material temperature
- CTI power source can be located inside OR outside the process flow facility

→ **Customizable, flexible deployment options, and potential for improved product quality and yield.**

4 EM energy creates heat only where it's needed (up to 2,000 °C).

Direct molecular heating dramatically reduces the mass of material that are heated i.e for mineral drying, only H_20 molecules are heated vs the full mineral+H_20+drum+air.



H_2O/conductive liquids:

- Drying (minerals, agriculture, pulp & paper, chemicals)
- Carbon capture
- High flow-rate water heat

Conductive solids applications:

- Furnaces / calciners
- Pyrolysis reactions
- Heat for heap leaching
- Thermal fracturing / comminution

→ **Direct molecular and volumetric heating delivers maximum efficiency for large scale heating.**

5 EMPowered Heat can employ other heating methods to efficiently heat indirectly.

- Induction heating
- Radiant heating

→ **EMPowered Heat can be used to make inductive and radiant heating more economic in high power applications.**

FOR FURTHER INFORMATION CONTACT:

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