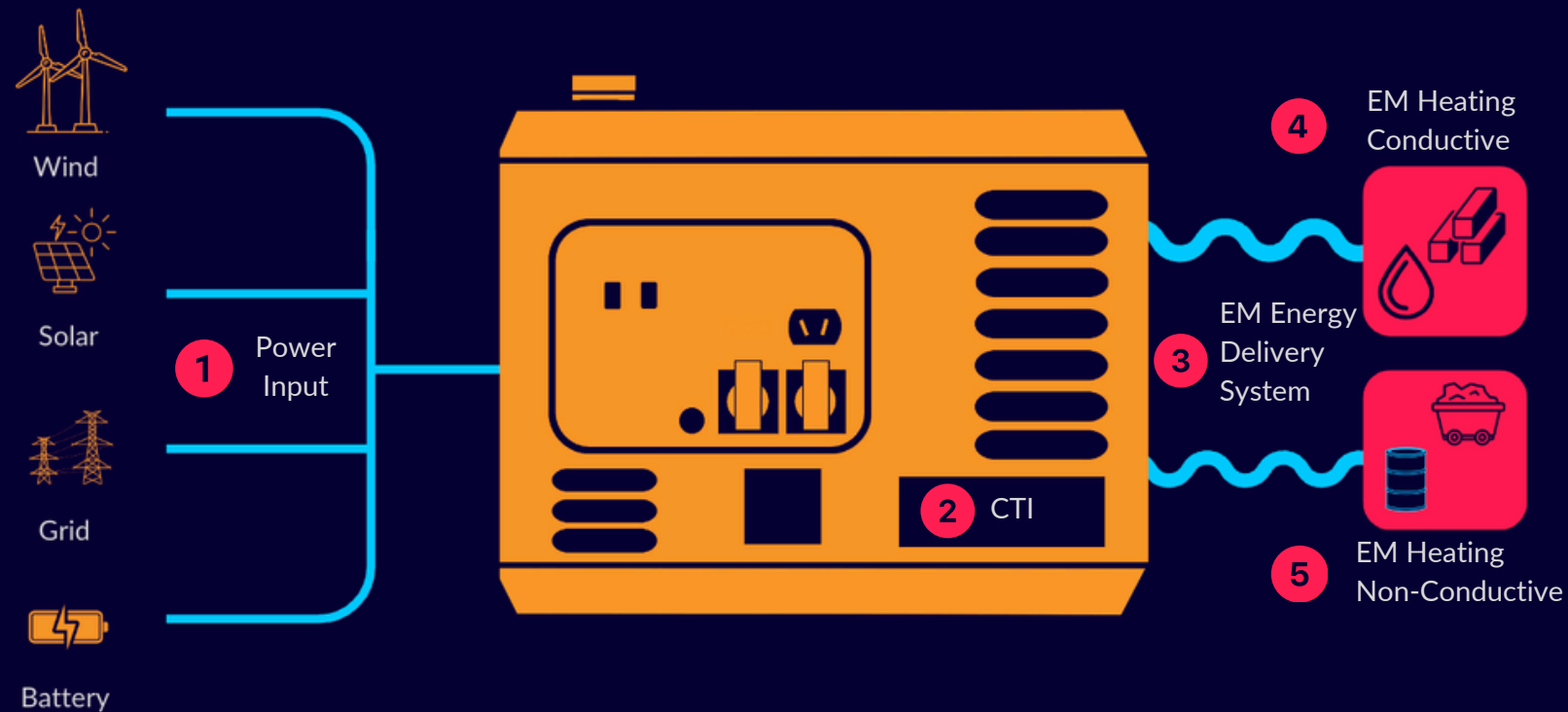


# EMPowered Heat & The Clean Tech Inverter

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.

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.**



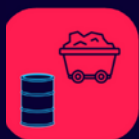
- Can accurately and instantly control and maintain target material temperature
- CTI power source can be located inside OR outside the process flow facility

➔ **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<sub>2</sub>O molecules are heated vs the full mineral+H<sub>2</sub>O+drum+air.



H<sub>2</sub>O/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:

Mike Tourigny  
Chief Operations Officer  
403 681 6884  
mike.tourigny@acceleware.com

[www.acceleware.com](http://www.acceleware.com)



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