

FOOD & AGRICULTURAL DRYING VIA CLEAN TECH INVERTER (CTI) ELECTRIFICATION

IT'S TIME FOR INNOVATION IMPROVEMENTS

Researchers have been exploring the use of electromagnetic (EM) energy (microwaves and radio frequency (RF) are different frequency ranges of EM energy) to improve the efficiency, emissions, and cost of agricultural drying processes. Widespread adoption, however, has not been achievable to date due to cost, technology, and scalability limitations.

We firmly believe CTI can change this, as it allows for large scale volumetric heating via RF energy. Volumetric heating could reach water molecules inside the product, allowing for faster and more uniform drying with much less energy and much lower emissions.



CTI Drying Advantages:

- Efficient energy transfer – minimal heat losses, maximum energy delivered directly to the water/liquid.
- Volumetric heating – results in fast and uniform water/liquid removal in the drying process. This can drive energy input reductions of up to 50% by delivering energy directly to the water molecule.
- Lower energy cost plus faster drying time can drive operating cost reductions of 50%.
- Precise temperature regulation – allowing for higher quality product which can often command a premium price.
- Tight process control and drying customization to optimize consistent results.

THE CTI ADVANTAGE

The CTI is a proven high-power high efficiency platform that is low cost, and can be applied to bulk solids drying.

Drying Type	Zero Emissions	Any Power Source	Intermittent Power Capability	Immediate Heat	Molecular Level Drying	Lower Opex
CTI	✓	✓	✓	✓	✓	✓
Electric	✓	✓	✓	✗	✗	✗
Gas Fired	✗	✗	✗	✗	✗	✗



WHAT IS CTI?

The Clean Tech Inverter (CTI) is Acceleware's patent-pending, field-proven, proprietary industrial heating technology 'engine' that can enable the decarbonization of multiple industrial heating processes via highly efficient delivery of radio frequency energy.

The CTI can provide reliable, scalable, on-demand, decarbonized heat via RF energy, and could displace fossil fuel reliant heating systems that are both carbon intensive and costly.

Acceleware has a working commercial-scale (2 MW) version of the CTI, which is scalable up to 10 MW.

FOR FURTHER INFORMATION CONTACT:

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