

Clean Energy Transition Roadmap

Decarbonizing Industrial Heating via CTI (Clean Tech Inverter) RF Energy

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MEDIUM/LONG TERM

CTI applications commercialized: all decarbonization applications commercially available, amounting to material GHG reductions across multiple sectors

MEDIUM TERM

Advance CTI commercialization:
RF XL at commercial
deployment stage, CTI
Hydrogen, CTI Bulk Solids/Crop
Drying and Mining, and CTI
Commercial Heating / Industrial
Process Heating at pilot stage



NEAR TERM

Advance development of: RF XL demonstration project(s), CTI Hydrogen, CTI Bulk Solids/Crop Drying and Mining, and CTI Commercial Heating/Industrial Process Heating



2023

RF XL commercial-scale pilot completion: validate low to zero GHG heavy oil and oil sands production capability ACCELEWARE'S PATENT-PENDING CLEAN TECH INVERTER (CTI) COULD MASSIVELY REDUCE HEATING-RELATED GHG EMISSIONS IN SECTORS THAT ARE RESPONSIBLE FOR ~47% OF 2020 GLOBAL EMISSIONS¹, PER THE DIAGRAM BELOW.

¹ https://ourworldindata.org/emissions-by-sector#energy-electricity-heat-and-transport-73-2



HEAVY OIL AND OIL SANDS

Market size: \$28B USD/year

RF XL: low to zero GHGs at production and zero fresh water.

• 50% lower capex and 40% lower opex.

HYDROGEN



Market size: \$15T USD/year by 2050

CTI Hydrogen: The Acceleware/Aurora Hydrogen collaboration project is underway, aiming to develop the most efficient hydrogen production method possible through CTI driven methane pyrolysis.

Percent of global • Flexible, scalable, distributed low-cost emissions production with near-zero emissions.

Fugitive Methane 6% ·

Production Emissions

8% -

Bulk Solids and CropDrying **6**% –

Clean Tech Inverte **Decarbonization**

16%

Transport

Commercial Building Heat

Industrial Combustion and Processes

Market size: \$10B USD/year

CTI Industrial Drying:

CTI driven RF can cut cost and energy use in half with near-zero emissions.

• Wide range of bulk solids/crop drying, mining, and chemical process drying opportunities.

CTI Industrial Heating: CTI RF delivers high-efficiency volumetric heating.

Market size: \$28B USD/year

• High power and efficiency enables low cost, near-zero emissions industrial scale heating solutions.



BULK SOLIDS/CROP DRYING

INDUSTRIAL HEATING



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

FOR FURTHER INFORMATION CONTACT:

Mike Tourigny Chief Operations Officer

403 681 6884

mike.tourigny@acceleware.com

www.acceleware.com



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