Rondo—Decarbonizing Industry Brick by Brick

Decarbonizing the industrial sector is one of the greatest barriers to a net-zero future: industry accounts for about 31% of global GHG emissions, largely due to the sector's extreme reliance on fossil fuel combustion for heat.[39] Even renewable fuels, a key tool for industrial decarbonization, are typically dependent on fossil fuels for their production.

Rondo Energy designed the Rondo Heat Battery (RHB) to eliminate the need for fossil fuels in most heat-intensive industrial processes. The Rondo Heat Battery converts electricity to high-temperature heat, which it stores in brick material and discharges as steam. Rondo allows its customers to use intermittent wind and solar—now the cheapest sources of energy in the world—to supply 24/7 zero-carbon heat. Rondo is designed as a drop-in solution, integrating as easily into a site as a new boiler would.

On March 6, 2023, Rondo announced the commissioning of its first commercial installation: a 2MWh RHB for Calgren Renewable Fuels in Pixley, CA. Before Rondo, Calgren's Pixley facility was already producing the world's lowest carbon intensity biodiesel, ethanol and RNG. A full-scale Rondo installation can reduce the carbon intensity of ethanol by about 50%. When paired with carbon capture, Rondo can enable zero-carbon ethanol.

Rondo's 2MWh Heat Battery is the first deployment of a technology that Rondo expects to reach gigawatt scale within the next 5 years. By designing for scalability, reliability, and simple integration, Rondo has positioned itself to take a huge bite out of industrial emissions—and fast.

RONDO

"From construction through commissioning, my team and I remain impressed that the Rondo Heat Battery caused no disruption or slow-down to Calgren's operations. We see this solution as the perfect fit for us—a low-cost, zero-carbon, drop-in thermal storage system for existing facilities that increases the reliability, profitability, and performance of our operations."

LYLE SCHLYER, *President of Calgren Renewable Fuels*