

# Energy Recovery Showcases Exceptional Performance of PX G1300 in Commercial CO<sub>2</sub> Refrigeration Installations

SAN LEANDRO, Calif.--(BUSINESS WIRE)-- Energy Recovery, Inc. (Nasdaq: ERII) today announced new performance data for the PX G1300® pressure exchanger. The findings demonstrate its successful integration into several existing CO<sub>2</sub> refrigeration systems to reduce energy consumption and increase cooling capacity and system stability.

CO<sub>2</sub> refrigeration is a leading replacement for harmful hydrofluorocarbon (HFC) systems because it is non-toxic, non-flammable, and has a low global warming potential thousands of times better than HFCs. While CO<sub>2</sub> systems consume less energy than typical HFC systems<sup>1</sup>, their efficiency declines in hot weather, leading to higher electricity costs in the summer. Many current solutions leverage water to keep up system efficiency in the heat, which creates challenges of water cost, availability, and maintenance. Additionally, refrigeration systems operate within a fixed capacity (design temperature), causing strain during heat waves and potentially leading to system failure.

Results from this release show that the PX G1300 can aid in solving all three problems by increasing energy efficiency and cooling capacity without water. Findings showed the PX G1300 improved the leading metric of energy efficiency (coefficient of performance) by peaks of up to 30% with as much as 15% in projected annual energy savings<sup>2</sup>. In addition to energy efficiency, findings estimate the PX G1300 increases cooling capacity for CO<sub>2</sub> refrigeration systems by up to 15% at 95°F (35°C)<sup>2</sup>, providing operational flexibility to safeguard against heatwaves.

“Our goal at Energy Recovery is to support the global transition from harmful hydrofluorocarbons (HFCs) to sustainable, low global warming refrigerants,” said Ricardo Freitas, Energy Recovery’s Vice President of CO<sub>2</sub>. “With the PX G1300, our customers experience not only year-round energy savings, they also benefit from enhanced system capacity to provide peace of mind from heat waves and a rapidly warming climate.”

The PX G1300 is an innovative application of our leading PX® Pressure Exchanger® for desalination that offers a simple and cost-effective energy saving solution for CO<sub>2</sub> refrigeration, easing the transition to sustainable refrigeration.

Read full white paper [here](#).

## Forward-Looking Statements

Certain matters discussed in this press release are “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the

Securities Exchange Act of 1934, as amended, including our belief that the PX G1300 can improve COP by peaks of up to 30%, our belief that the PX G1300 can lead to as much as 15% in projected annual energy savings, and our belief that the PX G1300 can increase cooling capacity for CO2 refrigeration systems by up to 15%. These forward-looking statements are based on information currently available to us and on management's beliefs, assumptions, estimates, or projections and are not guarantees of future events or results. Potential risks and uncertainties include risks relating to the future demand for our products, risks relating to performance by our customers and third-party partners, risks relating to the timing of revenue, and any other factors that may have been discussed herein regarding the risks and uncertainties of the Company's business, and the risks discussed under "Risk Factors" in the Company's Form 10-K filed with the U.S. Securities and Exchange Commission ("SEC") for the year ended December 31, 2023, as supplemented by the risks discussed under "Risk Factors" in our Quarterly Report on Form 10-Q for the quarter ended June 30, 2023, as well as other reports filed by the Company with the SEC from time to time. Because such forward-looking statements involve risks and uncertainties, the Company's actual results may differ materially from the predictions in these forward-looking statements. All forward-looking statements are made as of today, and the Company assumes no obligation to update such statements.

## **About Energy Recovery**

Energy Recovery is a trusted global leader in energy efficiency technology. Building on our pressure exchanger technology platform, we design and manufacture reliable, high-performance solutions that generate cost savings, increase energy efficiency, and reduce carbon emissions across several industries. With a strong foundation in the desalination industry, Energy Recovery has delivered transformative solutions that increase operational efficiency and environmental sustainability to our customers worldwide for more than 30 years. Headquartered in the San Francisco Bay Area, Energy Recovery has manufacturing and R&D facilities across California and Texas, with sales and on-site technical support available globally.

<sup>1</sup> McLaughlin, Charlotte. "Study: CO2 Systems 'Use 20% Less Energy' Than Typical HFC Systems." *R744*, 22 Apr. 2021, [r744.com/study-co2-systems-use-20-less-energy-than-typical-hfc-systems](https://www.r744.com/study-co2-systems-use-20-less-energy-than-typical-hfc-systems).

<sup>2</sup>Actual results may vary based on multiple factors including system architecture, cost of electricity, ambient temperature, square footage and size of facility, variable loading of the system, time of day, and geographic location. Findings based on customer testimonials and Energy Recovery's laboratory and field results. Energy Recovery accepts no responsibility for possible errors in catalogues, brochures and other product material, and reliance on data is at your own risk. All trademarks in this material are the property of the respective companies.

View source version on businesswire.com:

<https://www.businesswire.com/news/home/20241028908414/en/>

Press Inquiries

[pr@energyrecovery.com](mailto:pr@energyrecovery.com)

Investor Inquiries

[ir@energyrecovery.com](mailto:ir@energyrecovery.com)

Source: Energy Recovery