

Endress+Hauser and Mangrove Systems team up to bring industry-leading measurement and monitoring to carbon value chains

Driving accuracy and transparency in carbon measurement

September 10, 2024 – Endress+Hauser, a global leader in measurement and automation technology, has collaborated with Mangrove Systems to enhance the measurement and monitoring capabilities of carbon dioxide removal (CDR) and carbon capture and storage (CCS) value chains. This collaboration aims to integrate Endress+Hauser's cutting-edge instrumentation with Mangrove Systems' leading digital MRV solution, Mangrove Nexus, to deliver complete accuracy, reliability and traceability in carbon management.

Endress+Hauser, known for its comprehensive process solutions and measurement technologies in flow, level, pressure, temperature and analysis, will provide the equipment required for precise measurement and monitoring of CO₂. With more than 70 years of expertise in optimizing industrial processes for economic efficiency, safety and environmental protection, Endress+Hauser's measurement technologies provide the reliability and accuracy needed to support the precise tracking required in the carbon dioxide removal and carbon capture and storage value chains.

Mangrove Systems, the leader in digital measurement, reporting and verification (dMRV) solutions, will collect data generated from Endress+Hauser's instrumentation and perform the attribution, mass balance accounting and program quantification, streamlining commercialization through programs that include the 45Q production tax credit, low carbon fuel standards and the voluntary carbon market.

By integrating Endress+Hauser's advanced instrumentation with Mangrove Nexus's digital MRV capabilities, carbon project developers will benefit from streamlined carbon data management implementations from the collection and measurement of data through to downstream environmental attribute monetization.

“Our collaboration with Mangrove Systems signifies a major advancement in the precision and accuracy of carbon measurement and monitoring,” said Cesar Martinez, Natural Gas and LNG Industry Marketing Manager at Endress+Hauser. “By combining our expertise in

instrumentation with Mangrove's digital MRV capabilities, we are paving the way for more effective management of data from carbon value chains."

"Endress+Hauser's expertise in measurement technology complements our digital MRV capabilities, enabling us to offer a comprehensive solution for carbon project developers," said Brandon Vlaar, CEO of Mangrove Systems. "Together, we are driving innovation in carbon management and setting new benchmarks for accuracy and transparency in the industry."

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About Endress+Hauser

Endress+Hauser is a global leader in measurement and automation technology for process and laboratory applications. The family company, headquartered in Reinach, Switzerland, achieved net sales of more than 3.7 billion euros in 2023 with a total workforce of almost 17,000.

Endress+Hauser devices, solutions and services are at home in many industries. Customers thus use them to gain valuable knowledge from their applications. This enables them to improve their products, work economically and at the same time protect people and the environment.

Endress+Hauser is a reliable partner worldwide. Its own sales companies in more than 50 countries as well as representatives in another 70 countries ensure competent support.

Production facilities on four continents manufacture quickly and flexibly to the highest quality standards.

Endress+Hauser was founded in 1953 by Georg H Endress and Ludwig Hauser. Ever since, the company has been pushing ahead with the development and use of innovative technologies, now helping to shape the industry's digital transformation. 8,900 patents and applications protect the Group's intellectual property. For further information, please visit www.endress.com/media-center or www.endress.com.

About Mangrove Systems

Mangrove Systems provides the leading digital measurement, reporting, and verification (digital MRV) solution for carbon dioxide removal (CDR) and carbon capture & storage (CCS) projects. Mangrove tracks every molecule of CO₂ that flows through project operations,

providing a digital, fully auditable system to support project commercialization & compliance. Mangrove Systems is trusted by many of the largest carbon projects in the world to bring trust, transparency, and integrity to carbon project operations.

For more information, visit: www.mangrovesystems.com.

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