

Vaisala seeks to remove greenwashing from carbon capture with a new measurement solution

TOWCESTER, UNITED KINGDOM, October 22, 2024 /EINPresswire.com/ -- Carbon capture, utilization and storage, or CCUS, is a field that has sparked a lot of public debate – and investments. Knowing exactly how much and what quality carbon has been captured is essential if CCUS is to become a viable addition to the toolset against climate change. Vaisala's new MGP241 multigas probe offers always-on data at a third of the cost compared to measurement solutions most used in CCUS processes today.



Vaisala, a global leader in measurement technology, has today launched a new measurement product, MGP241, that measures CO₂ and humidity and is specifically designed to bring transparency to CCUS projects. Both governments and private companies need CCUS to reduce and offset carbon emissions if they are to meet their reported decarbonization targets. However, with current technology still not ready for widespread use, constant, and accurate measurement of captured carbon is vital to ensure its continued development.

"No one knows yet if CCUS will indeed grow to be a significant solution in our fight against climate change. The technology is still in its early stages. What we can solve now is how to make measuring these projects as transparent and efficient as possible to leave no room for guesswork or sugarcoating the results – our numbers don't lie," says Julia Salovaara, Strategy and Business Development Manager at Vaisala.

Critical industries depend on CCUS

CCUS has already seen some major investments. According to BloombergNEF, [a record \\$6.4 billion was invested into CCUS technology](#) in 2022, more than doubling from the year before and with the U.S. leading the way with 45% of the total investments. Yet, many projects are behind schedule or not producing their promised results.

The success of CCUS technology is especially critical for hard-to-abate industries like materials manufacturing, energy production, and the chemical industry. With high emissions and few other significant solutions beyond improving their energy efficiency, these industries experience increased pressures from regulators and the public to decarbonize their operations.

One especially crucial industry is the cement industry that alone [emits 7% of global CO₂](#). Additionally, the global demand for cement is expected [to increase 12–23% by 2050](#). One of the early success stories, Carbonaide, helps the cement industry utilize captured carbon dioxide in concrete manufacturing.

Through the carbonization process, Carbonaide's technology reduces the amount of cement needed in concrete production. While the reduction of cement needed is remarkable, 20–100%, the process also creates a permanent storage for the carbon captured from an emission source.

Carbonaide partnered with Vaisala from the start to make sure they know exactly what is happening in each step of the process and, eventually, how much carbon is stored.

"Globally, Carbonaide's technology has the potential to store 500 megatons of CO₂ annually by 2050 in precast concrete products – roughly the same annual emissions of France and the UK combined. The investment case we offer our customers is entirely based on accurate measurements and transparency. With Vaisala, we can trust that the numbers we share with our partners are correct," says Jonne Hirvonen, Chief Operating Officer at Carbonaide.

Transparent measuring at a significantly lower cost

MPG241 measures carbon dioxide and humidity in point source and direct air carbon capture processes, and in different carbon utilization and storage projects.

Unlike traditional gas analyzers, Vaisala's MPG241 requires no expensive calibration gases, needs dramatically less maintenance, and promises a 10+ year lifespan in heavy-duty use. The compact size and in-situ design of the instrument has allowed for competitive pricing – around a third of the price of most common solutions in the market.

"Our new probe measures directly in the gas flow and shows test results in real time. This level of transparency and proof is essential for process optimization, building trust with stakeholders, and demonstrating genuine commitment to sustainability," concludes Salovaara.

The MPG241 will be available for purchase starting today. For more information, please visit: vaisala.com/mgp241

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About Us

Vaisala is a global leader in measurement instruments and intelligence for climate action. We equip our customers with devices and data to improve resource efficiency, drive energy transition, and care for the safety and well-being of people and societies worldwide. With almost 90 years of innovation and expertise, we employ a team of over 2,300 experts committed to taking every measure for the planet. Vaisala series A shares are listed on the Nasdaq Helsinki stock exchange.

www.vaisala.com

More information for the media

Media kit with photos -

https://drive.google.com/drive/folders/1kJDH46lF2B8MmSPiDG_59gPUjCm1GE5M

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