

Worley, ABB, and IBM to collaborate to create an end-to-end green hydrogen solution



SYDNEY and ZURICH and ARMONK, N.Y., Feb. 22, 2022 /PRNewswire/ -- [Worley](#) (ASX: WOR), ABB (ABBN: SIX Swiss Ex) and [IBM](#) (NYSE: [IBM](#)) have signed a memorandum of understanding to collaborate on helping energy companies build and operate green hydrogen facilities more efficiently and at scale.

The planned three-party collaboration aims to develop an integrated, digitally enabled solution for facility owners to build green hydrogen assets more quickly, cheaply, and safely, and operate them more efficiently.

[Green hydrogen](#) is a form of clean energy made from water through electrolysis, which is powered by renewable energy. While many industries want to invest in green hydrogen, high production costs pose a barrier to driving market adoption and achieving scale over natural gas or blue hydrogen. In addition, production facilities require an accessible and abundant renewable energy supply. This collaboration aims to help customers address these challenges by scaling up technologies and reducing production costs to enable green hydrogen to become more widely used.

Under the collaboration, Worley will provide engineering, procurement, and construction expertise across all stages of the project. ABB will provide offerings for electrical infrastructure, automation, operations digitalization and optimization, and energy management. IBM will provide systems integration services, as well as data framework and management solutions. Together, the three parties will provide operations and maintenance services, leveraging their combined digital expertise.

"This collaboration aims to help turn net-zero solutions into reality. It will build on the key learnings of our ground-breaking [Ambition to Reality](#) paper, written in collaboration with Princeton University, USA. By fast-tracking and standardizing how we engineer-design-operate, this collaboration is expected to reduce the levelized cost of green hydrogen and help our customers to decarbonize their operations further," says Chris Gill, Senior Vice President of Low-carbon Hydrogen at Worley.

"Hydrogen is at the heart of the energy transition and is essential to decarbonizing a wide range of hard-to-abate industries. Together with Worley and IBM, we're dedicated to enable a new concept to accelerate the adoption of low carbon hydrogen and efficiently meet the growing demand. Complementing our partners expertise with our electrification, automation and digital solutions, we will aim to enable lower production costs through smart, safe and sustainable operations," says Bruno Roche, Vice President, Energy Transition at ABB Energy Industries.

"While many industries have been able to adopt wind and solar to help decarbonize operations, energy-intensive industries, such as petrochemical, cement and steel, require heat temperatures and combustion that cannot be achieved with these renewables. Green hydrogen can help address these distinct needs in a more scalable sustainable way. IBM's collaboration with Worley and ABB aims to address those challenges by combining expertise and solutions from all three companies into a distinct ecosystem of industry leaders to help form a repeatable process to build, operate and manage green hydrogen facilities. We believe this kind of [collaboration is critical](#) to achieving decarbonization goals," says Zahid 'Z' Habib, Vice President, Global Energy & Resources Industry Leader, IBM Consulting.

The planned relationship is subject to the parties reaching definitive agreements.

About Worley: Worley is a global company headquartered in Australia and our purpose is delivering a more sustainable world. Worley is a leading global provider of professional project and asset services in the energy, chemicals and resources sectors. As a knowledge-based service provider, we use our knowledge and capabilities to support our customers to reduce their emissions and move towards a low carbon future. Worley Limited is listed on the Australian Securities Exchange (ASX: WOR).

About ABB: (ABBN: SIX Swiss Ex) is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels. With a history of excellence stretching back more than 130 years, ABB's success is driven by about 105,000 talented employees in over 100 countries. www.abb.com

About IBM: For more information about IBM visit www.ibm.com.

Forward-Looking and Cautionary Statements

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future

products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

CONTACT:

Allison Bishop, 717-572-3309, allison.bishop@ibm.com

Worley press room, worley@aspectusgroup.com

SOURCE IBM

Additional assets available online:



<https://stage.mediaroom.com/ibmnewsroom/2022-02-22-Worley,-ABB,-and-IBM-to-collaborate-to-create-an-end-to-end-green-hydrogen-solution>