

Schneider Electric Signs an Agreement with Shuimu Mintal for an Integrated “Power + Hydrogen-to-X” Project

Beijing, March 6, 2024—[Schneider Electric](#), the global specialist in the digital transformation of energy management and automation, recently signed a cooperation agreement with Shuimu Mintal (Damao) Hydrogen Energy Technology Co., Ltd. Under this agreement, Schneider Electric as the industry’s first vendor combining the process of power generation and management with other processes will work with Shuimu Mintal to develop a project simulating the integrated production of power-hydrogen-ammonia by optimizing the entire process from green power to green hydrogen and green ammonia, to help accelerate China’s green energy transition.

The agreement was signed by Tony Xiong, Senior Vice President and Head of Strategy and Business Development of Schneider Electric China, and Dean of Schneider Electric Institute of Business Value, on behalf of Schneider Electric, and Fu Xiaolong, Vice President of Beijing Tsinghua Industrial R&D Institute and General Manager of Shuimu Mintal, on behalf of Shuimu Mintal. Frederic Godemel, Executive Vice President for Power Systems and Services, Schneider Electric, and Xu Shaofeng, Senior Vice President of Schneider Electric and Head of Medium Voltage and Services for the China Market, attended the event and witnessed the signing of the agreement.



Companies in various sectors are actively exploring the next-generation green energy technologies to drive their carbon reduction goals. As the ultimate clean energy in the 21st century, green hydrogen promises enormous potential. Green power and green hydrogen are closely connected with each other in both production and application. Therefore, hydrogen, especially green hydrogen, is gradually catching people’s attention as part of the solution envisioned for reducing carbon emissions around the world. However, using green power to produce green hydrogen and then ammonia faces multiple challenges such as the fluctuation of green power as well as the cost-effectiveness, safety and reliability of green hydrogen. Those challenges have to be solved through innovation to support the zero-carbon ambitions.

Fu Xiaolong, Vice President of Beijing Tsinghua Industrial R&D Institute and General Manager of Shuimu Mintal, said: “An era of the next-generation industrial systems centered on new energy is coming. The in-depth application of new energy and hydrogen as its carrier in industrial systems is very promising in the efficient utilization of new energy and the decarbonization in heavy industries. But their development also faces technical challenges we’ve seen around the world to industrial systems presented by new energy such as the fluctuation of energy supply and the dynamic change of loads. Currently the joint and dynamic operation of power and chemical processes is still not possible given the fluctuating nature of new energy. Against this backdrop, we choose to work with Schneider Electric

to develop an integrated “Power + Hydrogen-to-X” project. That’s because we trust in Schneider Electric’s powerful digital EP&P solution, which can help us overcome technical difficulties and work out a feasible solution to help address climate change.”



Fu Xiaolong, Vice President of Beijing Tsinghua Industrial R&D Institute and General Manager of Shuimu Mintal

Under the agreement, Schneider Electric will leverage its strong expertise in the digital transformation of energy management and automation to help integrate power and process and enable Shuimu Mintal to design the right system configuration and control strategy for energy storage (power storage + hydrogen storage), so as to improve the system’s safety, stability and cost-effectiveness and eventually achieve green and sustainable development through the ETAP Digital Twin Platform and the AVEVA Pro/II & Process Simulation. In addition, Schneider Electric will also work closely with Shuimu Mintal to develop projects, invest in overseas markets and drive the development of green hydrogen in China and around the world by leveraging the resources of its operation networks in 130+ countries, its advanced energy management technology and its mature power + automation solutions along with the technology application capabilities of Shuimu Mintal and the group’s hydrogen business capabilities.

Frederic Godemel, Executive Vice President for Power Systems and Services, Schneider Electric, said: “In the context of the accelerated global energy transition and China’s effort to pursue its two carbon reduction goals, developing and using green hydrogen is of strategic importance. As the global specialist in the digital transformation of energy management and automation, Schneider Electric has been introducing innovative green products and holistic solutions over the years, to help drive the global energy transition. This is our first end-to-end process optimization project in the world from green power to green hydrogen and green ammonia. Implementing such a major project in China first not only attests to the huge potential of China’s renewable energy industry, but also represents the recognition of Schneider Electric’s ability to explore the frontiers. In the future, we look forward to working with industry leaders including Shuimu Mintal in other areas as well to provide a powerful supply of green energy for driving decarbonization in China and around the world.”



Frederic Godemel, Executive Vice President for Power Systems and Services, Schneider Electric

About Schneider Electric

Schneider's purpose is to **empower all to make the most of our energy and resources, bridging progress and sustainability** for all. We call this **Life Is On**.

Our mission is to be your **digital partner for Sustainability and Efficiency**.

We drive digital transformation by integrating world-leading process and energy technologies, end-point to cloud connecting products, controls, software and services, across the entire lifecycle, enabling integrated company management, for homes, buildings, data centers, infrastructure and industries.

We are the **most local of global companies**. We are advocates of open standards and partnership ecosystems that are passionate about our shared **Meaningful Purpose, Inclusive and Empowered** values.

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