Utility-scale energy storage kazakhstan

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And yet, despite its strong dependence on fossil fuels, Kazakhstan has scored many energy transition firsts in the region. It was the first to launch a national emissions trading system, set renewable energy targets, introduce a functioning support mechanism for renewables, develop utility-scale solar and wind projects, and to set a carbon neutrality target (by 2060). Today, Kazakhstan boasts 957 MW of installed wind power capacity and 1.149 MW of solar, with many more projects under development. By 2035, the country plans to deploy as much as 11.7 GW of new wind and solar capacity.

There is a strongly held view in Kazakhstan that any further development of renewable energy should go hand in hand with an increase in balancing capacity and/or the deployment of expensive storage systems. However, as experience from European countries shows, much higher shares of renewable energy can be successfully integrated through a combination of different mechanisms, including increased regional trade, demand response, grid capacity improvement, better forecasting and so forth.

Another controversial issue is the potential role of nuclear power in Kazakhstan"s energy mix. The Central Asian republic is the world"s largest producer of uranium but has no nuclear capacity in operation. The possible construction of a large nuclear power plant has been the subject of longstanding public debate, with anational referendum scheduled for autumn 2024. While the idea is supported by the government (and welcomed by Russia, whose state nuclear corporation Rosatom would likely build the plant), Kazakh society remains highly polarised on the issue.

: The governments of the United Arab Emirates and the Republic of Kazakhstan today signed an agreement outlining a commitment to co-operation in the development of Kazakhstan"s renewables sector, including through the development of a large-scale wind power project with a 1GW capacity.

His Excellency Kassym-Jomart Tokayev, President of the Republic of Kazakhstan, oversaw the signing of the agreement between the Kazakhstan Ministry of Energy and the United Arab Emirates Ministry of Energy and Infrastructure. The signing took place at COP28, in Dubai.

Alongside this, a Joint Development Agreement was signed between Abu Dhabi Future Energy Company (Masdar) - the UAE"s clean energy champion, who will spearhead the project - W Solar, Qazaq Green Power QGP (a Samruk-Kazyna Group company), and the Kazakhstan Investment Development Fund, to develop and implement a 1GW wind project.

The government agreement for the development of a 1 GW large-scale wind power project that we are signing today is in line with the policy of the Republic of Kazakhstan to combat global climate change, including by achieving carbon neutrality by 2060. We are highly interested in fostering our mutually beneficial cooperation with our UAE colleagues, aimed at promoting innovation in the field of renewable energy.

The UAE and Kazakhstan have a strong track record of co-operation and collaboration in the energy space. We are pleased to strengthen this partnership with today"s agreement, and look forward to working closely with our friends in Kazakhstan on promoting energy security and the green transition. In particular, this 1GW wind project, led by Masdar, will make an important contribution to increasing the country"s energy security and renewables capacity.

We are delighted to move forward with our first project in Kazakhstan and to help the country meet its ambitious renewable energy targets. Masdar has a track record of delivering world-class renewables projects globally, and we are confident that this wind project will be transformative for the surrounding regions. We look forward to continuing our work with the Government of Kazakhstan, as well as our partners at Qazaq Green Power, the Kazakhstan Investment Development Fund, and W Solar. We are excited to see how our projects across the region continue to develop.

Our collaboration with Masdar, Qazaq Green Power and KIDF in Kazakhstan is a testament to W Solar"s commitment to advancing renewable energy projects across the globe. This project in Kazakhstan is not just about energy generation, but about low carbon, safe and sustainable energy supplies and contributing to a greener planet.

Low-carbon development is one of the main goals of Samruk-Kazyna. We have approved the Concept of Low-Carbon Development, which includes such directions as the diversification of the energy balance through alternative energy sources and the development of electricity accumulation and storage systems. Our wind power plant project with Masdar is a notable example of our efforts towards carbon neutrality. It is of great importance for us and for the country as a whole.

We are thrilled to join forces with Masdar, W Solar, and KIDF in this momentous partnership. This collaboration underscores our dedication to driving meaningful change and innovation in the renewable energy landscape. This strategic alliance exemplifies a shared commitment to combatting climate change and underscores the proactive approach of the involved entities toward a sustainable future.

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