Malta energy storage systems

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The Malta LDES plant stores electricity for days to weeks and converts variable renewables into reliable, on-demand power. It produces zero-emissions heat to decarbonize the hardest-to-tackle sectors of our economy: industrial, agricultural, buildings, and others. It is built using proven subsystems deployed around the world today, like heat exchangers, molten-salt and industrial-coolant storage, and turbomachinery.

The base Malta plant can discharge 100-MW of clean energy for 10-to-200+ hours. Designed for flexibility, its charge and discharge speeds can be independently tailored to meet an owner"s needs. Duration is easily and cost-effectively extended by adding more commodity storage media - the lowest cost components.

CAMBRIDGE, Mass. -- Malta Inc., a leader in long-duration energy storage, today announced that it has closed on a round of financing provided by a group of investors including Siemens Energy Ventures and Alfa Laval as well as existing shareholders Breakthrough Energy Ventures, Proman, Chevron Technology Ventures, and Piva Capital. The new capital will be used to accelerate deployment of Malta"s storage systems globally.

Ramya Swaminathan, President and CEO of Malta, added, "We are thrilled to have Siemens Energy join our world-class strategic investors, Alfa Laval and Proman, and our other shareholders, such as BEV, Piva, and Chevron. Our partners facilitate and enhance our ability to execute in this rapidly expanding growth market. As a global leader in the power sector, our partners bring unparalleled industry knowledge, technical expertise, and global commercial reach to help accelerate our commercial deployment."

Christian Bruch, President and CEO of Siemens Energy, said, "Malta"s innovative thermoelectric energy storage system offers a flexible, cost-effective and scalable solution for the storage of energy over long periods of time. With our support, Malta is well positioned to be the first company to commercialize such a solution globally. Our engineers are making an important contribution to technology development and scale-up."

Tom Erixon, President and CEO of Alfa Laval comments, "In the race towards Net Zero, there are many challenges, but also solutions. Alfa Laval is contributing with its innovative heat exchanger technology that will be vital to enable commercially viable long-duration energy storage, fundamental for the decarbonization of the renewable energy sector. Alfa Laval is proud to continue and further strengthen our collaboration with Malta and our partners to accelerate the energy solutions required to reach net zero."

Malta, Inc. has developed a like-for-like replacement for today"s fossil fuel-fired plants that delivers affordable, reliable, on-demand clean energy. Malta"s innovative long-duration energy storage technology stores electricity as thermal energy from eight hours to eight days or longer, later returning it to the grid to meet hourly, daily, and weekly needs. The Malta system also provides clean heat for industrial and district heating applications, further reducing CO2 emissions in hard to abate sectors.

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Southwest Research Institute (SwRI) has commissioned a first-of-its-kind pilot plant pumped heat energy storage demonstration facility with tech from US startup Malta. Its 10-150+ hour energy storage technology is said to be applicable in a range of grid-scale applications.

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