

Engazaat, Azelio, and Mascara NT launch the “SAVE Cleantech Utilities” alliance

November 8th, 2022 – On the occasion of the launch of the COP27 in Sharm El Sheikh in Egypt, Egyptian Engazaat S.A.E, Swedish Azelio AB, and French Mascara NT announce forming an alliance to provide innovative utility solutions addressing the challenges of the Water-Energy-Food nexus. The alliance, SAVE Cleantech Utilities, will offer “Water-and-Energy-as-A-Service-Model” for the first time in the industry enabling farmers in off-grid desert locations to focus their resources on the farming activities.

SAVE Cleantech Utilities will support the democratisation of sustainable agriculture and the adoption of innovative technologies contributing to solving major human challenges such as access to water and clean energy in rural areas, hunger, poverty, unemployment, and social developments. Challenges that are magnified by the projected increase in the global demand for food and agriculture over the next decades.

In the case of Egypt, where urban expansion into arable lands pushed agriculture into the desert where water and power are scarce, adaptation is of utmost necessity.

“We are proud to empower small farmers and local growers in rural and off grid area of Moghra Oasis with clean water and energy without any capital or technical burdens.” says Muhammad El Demerdash, Cofounder and CEO of Engazaat. “We believe SAVE Cleantech Utilities multilateral impact investment structure and disruptive business model will spark a massive, community-led sustainable agriculture development transformation in Egypt and beyond to Saharan and Sub-Saharan Africa” he added.

SAVE Cleantech Utilities will set-up water desalination systems using Mascara NT’s OSMOSUN – a unique desalination technology adaptive to the variability of solar PV resources, that will transform underground brackish water into water fit for agriculture.

Mascara NT’s CEO, Quentin Ragetly said “This project is the result of a fruitful collaboration of likeminded organisations willing to provide useful solutions that make sense. This project not only demonstrates the efficiency of the combination of the innovative solutions of Mascara and Azelio structured and led by Engazaat, but it also displays the relevance of using innovative business models to provide a sustainable service to farmers and communities. We believe this opens the door to replicate this model to other farming communities across Africa.”

The desalination plant and the irrigation pumps will be powered by a renewable microgrid using Solar PV and Azelio’s TES.POD solution – an innovative long-duration energy storage technology, to supply clean energy 24/7, therefore optimising the use of water through night-time irrigation.

“Joining the SAVE Cleantech Utilities alliance represents a major step forward in Azelio's mission to power renewable agriculture, and we are proud to be working with such strong partners. The project

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brings together a unique combination of technologies, and the global potential and need for desalinated water with no CO2 emissions is enormous”, says Jonas Wallmänder CEO of Azelio.

Engazaat’s extensive experience in developing solar-for-water solutions in Egypt and the region will ensure an integrated utility approach that is socially aware with the highest sustainability standards and the most efficient water utilisation tied to climate-action goals of boosting resilience and mitigation. A standard and implementation that have been recognized on a national level by Egypt’s COP27 Smart Green Governorates Initiative (SGG) where Engazaat’s Sustainable Agro-Village project implementing solar-for-water solutions in the New Valley Governorate was awarded the silver trophy for the smartest and most sustainable project for medium scale category across Egypt. A success SAVE Cleantech Utilities will be building on.

For its first project, SAVE Cleantech Utilities has chosen to support the farmers of the Moghra Area in Egypt, and set up a plant to supply 2,250 m³/day of agricultural water at 1,000 ppm salinity, powered by a 2.3 MWp of PV and 260 kW/3,300 kWh of electrical storage. Upon completion, the project will be classified as the first and largest solar powered brackish water desalination plant offered under a “Water-and-Energy-As-A-Service Model”. It will showcase the solution and prove to the hundreds of small and medium farmers in the Moghra area that farming their lands and contributing to national food security plan sustainably can go together as initially intended.

The project is at the development phase where financing and planning are being finalised, with a projected start of operation in the fall of 2023.

About SAVE alliance organizations:



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About Engazaat Development

Engazaat is Egypt’s first integrated and independent power and water producer, developer, and operator founded in 2011. Our mission is to enable commercial and industrial (C-&-I) businesses with cleantech, energy and water utilities bundled with innovative financial solutions.

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The company's portfolio to date includes 63 MW of solar energy developments, 350 MW of solar energy projects in pipeline, 15 million cubic meters of water produced and managed annually, with operations primarily in Egypt, and expanding to MEA.

Our tagline "Transforming Sahara" sums up our ambition to greenify Sahara through our decentralized and scalable business model.

More about Engazaat: www.engazaat.com

About Azelio

Azelio specializes in energy storage with electricity and heat production. The technology is revolutionary in that renewable energy becomes dispatchable, making clean energy available around-the-clock. The energy is stored in recycled aluminium and converted into electricity and heat with a total efficiency of up to 90%. The solution is scalable, sustainable, and cost-efficient from 0.1 MW up to 20 MW. Azelio is headquartered in Gothenburg, Sweden. Production takes place in Uddevalla, and the Company maintains development centres in Gothenburg and Åmål, has a presence in Stockholm, as well as Regional Directors for Australia, US, southern Africa, and the MENA region. Azelio is listed on Nasdaq Stockholm First North Growth Market with FNCA Sweden AB as Certified Adviser.

More about Azelio: www.azelio.com

About Mascara NT

A French company based in Chartres, Mascara NT provides innovative water treatment solutions with the use of renewable energies. The first phase of development resulted in the industrialization of OSMOSUN®, the world's first range of industrial solutions for solar-powered seawater and brackish water desalination, with a daily production capacity up to 20,000 m3 with hybrid energy sources.

Since 2014, this patented major innovation has enabled communities, utilities, and private organizations around the world to produce fresh water at an unprecedented low cost, without any greenhouse gas emissions.

More about Mascara NT: www.osmosun.com