

ALEC Energy Delivers World's First off-grid micro-grid with Azelio's long-duration energy storage system for Noor Energy 1

The system, which includes a pioneering energy storage solution from Azelio, has been installed at 4th Phase of Mohamed Bin Rashid Al Maktoum (Noor Energy1) Visitor Center to deliver around-the-clock clean power.

ALEC Energy, a leading solar solutions provider in the Middle East, today announced that it has successfully delivered a unique energy solution for the Visitor Center of the Noor Energy 1 – the world's largest CSP installation (Concentrated Solar Power) located in Mohammed bin Rashid Al Maktoum Solar Park in Dubai, UAE. The energy system – the first of its kind in the world – is an off-grid micro-grid with Azelio's long-duration energy storage system. Leveraging a groundbreaking energy storage solution from Azelio, combined with 300 kW of solar PV, the system delivers power to the facility, reducing the need for conventional power generation during night-time and overcast conditions.

Commenting on the accomplishment, Basar Kayali, General Manager of ALEC Energy said, "As the world's largest single-site CSP, Noor Energy 1 is a landmark project that sets global benchmarks in clean energy production.

"The solution we have implemented here has the potential to revolutionize how clean power can be supplied to factories, agricultural facilities, and hotels or resorts in remote locations in the UAE and beyond", Kayali added.

The NOOR Energy 1 Visitor Center, part of Phase 4 of the Solar Park, is nestled between millions of square meters of solar panels. ALEC Energy began implementing the unique micro-grid in June 2021 and completed the entire project in just 15 months.

The off-grid micro-grid with energy storage is significantly more cost efficient than the traditional alternatives of connecting to the national grid or relying on conventional powered generator sets.

"The hybrid system supplying power to Noor Energy 1 Visitor Center project is a milestone installation demonstrating how our long-duration energy storage system can form a vital part of a micro-grid for around-the-clock clean power, while serving as a reference project for our solution in the MENA region. The TES.POD was installed in 2021, and I am now delighted to see the complete micro-grid system fully operational, and I am looking forward to more projects in the region," added Azelio's CEO, Jonas Wallmander.



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“We are excited to incorporate the World's First off-grid micro-grid with Azelio’s long-duration energy storage system at the Noor Energy 1 Visitor Center. Our facility showcases the latest technologies in concentrated solar power, and photovoltaic cells and therefore it is of immense importance that the Center itself is powered by a cutting-edge clean energy solution”, said Hashim Al Ghabashi, Executive Managing Director of NOOR Energy. “I’m proud of the collaboration between Noor Energy & ALEC Energy that has enabled both teams in bringing this pioneering idea from an ambitious vision to reality. The passion, expertise, and professionalism demonstrated by ALEC Energy and Azelio was exemplary, and we believe that the success achieved together will pave the way further innovations in the future”, concluded Al Ghabashi.

About ALEC Energy:

ALEC Energy (est. 2015) is a related business division of ALEC Engineering and Contracting L.L.C. and offers a complete turnkey solution for both rooftop and ground mounted solar PV plants. In a country where solar is the natural solution for clean power, ALEC Energy has established itself as a reliable provider that combines technical know-how and experience to deliver a cost-effective solution for its clients. ALEC Energy offers a complete spectrum of services from concept to commissioning and operations to maintenance across the UAE. For more information, please visit: alecenergy.ae

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 centers 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

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Attachments

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