

## Azelio newsletter November 2019

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- Azelio signs MOU for commercial project in Zambia
- MOU signed with the US company Biodico for 120 MWe of installations in California

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## Agreements

### Azelio signs MOU for commercial project in Sub-Saharan Africa

October - 2019

Azelio has agreed on a Memorandum of Understanding (MoU) with the Swedish sustainable energy solutions company STELLA Futura, to work together on setting up a small-scale commercial project in Sub-Saharan Africa.

The project will demonstrate Azelio's solution by distributing renewable power around the clock to off-grid communities, storing energy from solar power and dispatching it on demand. The 50 kWe plant is planned to become operational in Q3 2020. Two potential sites are under evaluation for the project, one in Ghana and one in Togo.

Video of VP Business Development, Dr. Ralf Wiesenberg on the MOU: <https://tinyurl.com/veo33cv>  
Read the full press release here: <https://tinyurl.com/skzbx72>

### Azelio signs MOU for commercial project in Zambia

October - 2019

Azelio has signed a Memorandum of Understanding (MoU) with the Swedish company Nordic Distributed Power AB (ND Power) for a small-scale project in Zambia. The installation will operate under real-world commercial terms and serve as a model for ND Power's future installations in the Southern African region.

The initial project is a plant of 50 kWe in Zambia, set to become operational in Q3 2020.

Read the full press release here: <https://tinyurl.com/u6wtwh4>

### MOU signed with the US company Biodico for 120 MWe of installations in California

November - 2019

Azelio has signed a Memorandum of Understanding (MoU) with the US company BIODICO INC (Biodico) for a project in Atascadero, California. The MoU frameworks a collaboration over a capacity of about 120 MWe of Azelio's energy storage technology in the US market until 2024. This capacity is distributed along the following timeline: 13 kWe in 2021 (Atascadero project), 15 MWe in 2022, 35 MWe in 2023 and 70 MWe in 2024. Fully installed, the capacity corresponds to approximately 9,000 units of Azelio's system.

Read the full press release here: <https://tinyurl.com/u5t73xc>

## Partners

### Agreement signed with Masdar and Khalifa University in Abu Dhabi for a pilot project to evaluate Azelio's technology

September – 2019

The project aims to test and demonstrate Azelio's Stirling engine systems and integrated thermal energy storage (TES) solution for renewable energy projects that use photovoltaic solar, concentrated solar power (CSP) and wind energy, or projects that provide off-grid solutions, with the purpose of determining if the technology can be included in current and future renewable energy projects. Testing will begin with an evaluation of Azelio's Stirling engine system for renewable power production in fall 2019. This will be followed by an analysis of the complete system – including the TES – during the first half of 2020.

Read the full press release here: <https://tinyurl.com/u4zrhnv>



*An agreement was signed by Jonas Eklind, CEO Azelio, Abdulla Balalaa, Director, Real Estate Development and Design at Masdar, and Dr Steve Griffiths, Senior Vice President for Research and Development, Khalifa University of Science and Technology, at the 24th World Energy Congress in Abu Dhabi.*

### AQ Enclosure Systems appointed as partner for assembly of Azelio's energy storage solution

September – 2019

Azelio is now taking the next step towards the commercialisation of its solution by ensuring the assembly of the energy-storage system in collaboration with AQ Enclosure Systems. Azelio and AQ Enclosure Systems have therefore signed a letter of intent expressing their common desire to develop and produce Azelio's energy-storage solution as a close long-term collaborative effort. The aim is for AQ Enclosure Systems to become a full-scale production partner offering the purchasing, assembly and logistics services associated with Azelio's complete systems. AQ Enclosure Systems is part of AQ Group, a leading global player in subcontracting and assembly, which offers the flexibility required for Azelio to achieve volume production in a short space of time. AQ Enclosure Systems has established a presence in various international markets, which would be an advantage for Azelio's potential customers. AQ Group is listed on Nasdaq Stockholm.

Read the full pressrelease here: <https://tinyurl.com/vnxbwd8>

## Final testing of pump system developed with Swiss company Egger for transfer of heat in the energy storage system

September – 2019

Azelio has developed a unique pump system for the transfer of heat in its energy storage system with the help of the Swiss company Emile Egger & Cie SA (Egger). A life-length test is now underway to verify the performance and workings of the pump system. The key to the system's effectiveness is the ability to pump sodium around it at a high temperature (600°C), which is why Azelio has collaborated with Egger – the world-leading manufacturer of advanced pump systems – to develop a tailored solution.

The pump system has been tested, and it works well in controlled development environments. The system is now going to be verified by running a life-length test for 4,000 hours and by exposing it to real-life circumstances.

Read the full pressrelease here: <https://tinyurl.com/wx253xc>

## Organization development

### Azelio appoints VP Operations to lead the industrialisation

October - 2019

Azelio appointed Peter Gabrielsson as VP Operations. Peter Gabrielsson will play a key role in driving the company's industrialisation in future verification projects and commercial projects. Peter brings with him extensive operational, commercial and strategic experience from senior positions in engineering, project management, sales and business development for international EPC deliveries to the oil and gas industry.

### Azelio progresses in its commercialization as the first product leaves the production line

August - 2019

Azelio conducts a successful production premiere at its factory in Uddevalla, Sweden. This is where Azelio assembles its Stirling engine, which has been adapted to the company's energy storage solution with renewable power production for all hours of the day. This is an important interim goal in the company's commercialization and a first step in the verification project that will be installed in Morocco in late 2019.



Read the full press release here: <https://tinyurl.com/v6fe9bw>

## Verification project for Azelio's energy storage solution in Morocco in system with solar panels, opens up for new markets

October - 2019

Azelio's verification project in Morocco, which is currently under construction and is expected to start producing electricity at the end of the year, will use electricity generated by solar PV technology to charge the thermal energy storage solution developed by the company, enabling the production of renewable electricity around the clock. This has become clear since Azelio has reached an agreement with the Moroccan company Jet Energy for the delivery and installation of the solar PV required for the project.

Read the full press release here: <https://tinyurl.com/rjo56v6>

## Azelio intends to resolve on a partly guaranteed rights issue of up to approximately SEK 350 million

October - 2019

To finance the company's ongoing operations and the continued industrialisation of the system's design, construction and production, with the goal of reaching industrial volume production in 2021, Azelio's Board of Directors intends to carry out a partly guaranteed rights issue of around SEK 350 million. The rights issue is secured through a combination of subscription undertakings and guarantee commitments to an amount of SEK 225 million.

See a video of CEO Jonas Eklind here (Swedish): <https://tinyurl.com/tu52ljc>

Read the press release here: <https://tinyurl.com/rechsnt>

## Representation / Awards

### Azelio is the winner of Nasdaq Innovate46 in New York. Voted the company with the highest potential to succeed on the US market

October - 2019

Azelio was the winner of the Innovate46 pitch competition and voted the company with the highest potential to succeed on the US Market. The Nasdaq Innovate46 day in New York is part of Greenovate 46 organised by the Swedish Energy Agency and The Swedish-American Chamber of Commerce - New York.



*Azelio's Executive Vice President, Jonas Wallmander, who presented Azelio and its innovative technology that stores energy from solar and wind to dispatch it on demand around the clock.*

## Interview by Redeye with Azelio's CEO Jonas Eklind (in Swedish)

October - 2019



See a video interview by Redeye with Azelio's CEO Jonas Eklind here: <https://tinyurl.com/uutab8w>

## Azelio on Mission Innovation's list of 100 most innovative clean energy solutions

July - 2019

Azelio is proud to be listed as a top 100 solution provider with a potential high impact on avoided CO2e emissions, presented by the 1.5° C Compatible Solutions Framework at Mission Innovation's Ministerial meeting in Vancouver in May.

In May 2019, Azelio's CEO Jonas Eklind was honored as Sweden's Mission Innovation Champion. As progressive solutions for avoided CO2e emission was presented by Mission Innovation, Azelio was on the top 100 list. The Mission Innovation member states represent 60% of the world's population, 70% of GDP and 80% of government investment in clean energy research.

## Coverage in Arab News on Azelio's collaboration with Masdar and Khalifa university

November - 2019

"Given that 1.2 billion people still have no electricity today and about 2.4 billion are connected to an electricity grid that cannot provide them with enough power, Azelio's partnership with Masdar and Khalifa University of Science and Technology could not have been more timely."

Read the article in Arab News here: <https://www.arabnews.com/node/1581236/middle-east>

## Energivärlden on Azelio and its ground breaking clean power solution (in Swedish)

August - 2019

Energivärlden writes about Azelio, on the recent award to CEO, Jonas Eklind as Missions Innovation champion. As well as Azelio's technology as a renewable and cost effective alternative to fossil fuels.

Read the article here (Swedish): <https://tinyurl.com/wvdwy9w>

## Part of the technical committee for smart grids in collaboration with key stakeholders on the Chinese market

October - 2019

Productive discussions in Beijing, facilitated by the National Energy Administration, China Electricity Council and Swedish Smart Grid Forum. Here, Azelio's MD of Greater China, Bjorn Odenbro, represents us in the development of the technical committee for smart grid collaboration between Sweden and China.

"I'm excited about the pace, scale and sense of urgency in the discussions on how Sweden and China can collaborate better to develop grid access in the region. There's no doubt Azelio can play an important role in deploying solutions in the Chinese market that generates value to all parties."



## Report

### Q3 report - Azelio puts the pieces in place for volume production in 2021, as planned

The third quarter saw the start of another verification project, which in parallel with the verification in Morocco will pave the way for Azelio's groundbreaking technology. Together with Abu Dhabi Future Energy Company (Masdar) and Khalifa University of Science and Technology, Azelio plans to launch a pilot project in Abu Dhabi aimed at evaluating Azelio's technology for Masdar's existing and future projects in renewable energy.

In Sweden, meanwhile, the first industrially produced Stirling engine for the Thermal Energy Storage application left the production line at the factory in Uddevalla. Azelio also appointed AQ Enclosure Systems as its partner for assembly of the energy storage solution.

The next interim goal is the verification project in Morocco, which is expected to produce electricity at the end of the year. Azelio is continuing to put the pieces in place to execute on small commercial projects in 2020 and allow volume production in 2021 according to plan.

Azelio is proud to have been nominated for Mission Innovation's list of 100 innovative clean energy solutions.

See the video interview on the report here: <https://tinyurl.com/u2fohn7>

Read the full report here: <https://mb.cision.com/Main/16031/2971674/1149495.pdf>

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