

Press release

Oberhausen, 21/10/2026

Everllence
Steinbrinkstraße 1, 46145 Oberhausen,
Deutschland

Postal address: 46145, Oberhausen,
Deutschland

www.everllence.com

Group Communications
Roberto Rubichi
P +41 44 278 33 25
roberto.rubichi@everllence.com

Everllence to supply steam turbine-generator train for Yara plant

13.5 MW unit will use process steam from nitric acid production to generate electricity, improving the fertilizer plant's energy efficiency and carbon footprint.

Everllence will supply a steam turbine-generator train to Yara's plant in Poppendorf near Rostock, Germany. The unit will convert process steam from nitric acid production into electricity and feed it into the plant's internal power grid. This will increase the site's energy efficiency and reduce the fertilizer plant's carbon footprint.

At its Poppendorf site, Yara produces a range of fertilizers for the agricultural sector. Nitric acid production is a highly exothermic process that generates a considerable amount of heat, which is used to produce steam. This steam currently drives two Everllence compressors in the nitric acid plant via two existing steam turbines. In the future, the exhaust steam leaving these turbines at a pressure of 12 bar will be routed to the new Everllence steam turbine-generator train. There, it will be expanded to 4 bar and used to generate electricity. At full load, the unit will process up to 75 metric tons of steam per hour. The electricity generated will be fed into the plant's internal grid and used to operate the production facilities at the site.

Holger Tewes, Head of Sales and Project Management Steam Turbine at Everllence, says: "The chemical industry places particularly high demands on plant availability, operational reliability and efficiency. Our steam turbine-generator train is precisely tailored to Yara's processes and enables the efficient use of existing process steam for power generation. At the same time, we are continuing a long-standing collaboration: Everllence turbomachinery has been operating in the nitric acid plant in Poppendorf since the 1980s."

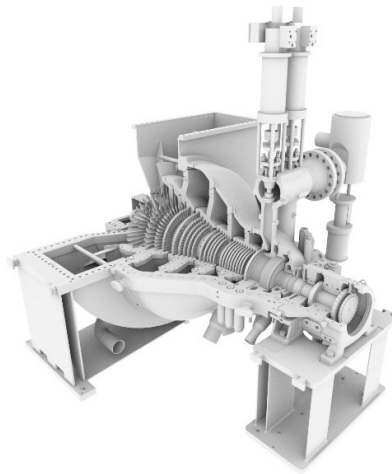
Everllence's scope of supply comprises a MARC4 steam turbine-generator train with an output of approximately 13.5 MW, including the generator and control system. The steam turbine will be manufactured at Everllence's facility in Bengaluru, India. Within the company, the site has global responsibility for steam turbine power-generation solutions with outputs of up to 45 MW.

Hassan Ajami, Head of Turbomachinery New Equipment MEA at Everllence, explains: "This project demonstrates how we combine our international manufacturing and engineering expertise to provide customers with sophisticated solutions tailored to their specific processes. Process steam is

a valuable energy resource. By converting it into electricity, industrial companies can make better use of the energy already available within their production processes.”

The MARC4 steam turbine will be designed in accordance with the requirements of the API 612 industry standard. This includes additional design and quality inspections as well as a mechanical test run on Everllence’s steam turbine test bed in Bengaluru, which was commissioned in 2024.

In addition, the generator train will comply with the German grid connection requirements set out in VDE-AR-N 4120. Working closely with Yara, Everllence conducted several dynamic electrical simulations to ensure the unit can be integrated safely into the plant’s power grid and in full compliance with the applicable requirements.



Open Everllence Steam Turbine with rotor © Everllence

Everllence (formerly MAN Energy Solutions) is a leading provider of propulsion, decarbonization and efficiency solutions for shipping, the energy economy and industry. True to our motto – ‘Moving big things to zero’ – we help key industries in the global economy to reduce hard-to-abate emissions. Our technologies have a measurable impact on the success of the global energy transition. Headquartered in Germany, Everllence employs some 15,000 people at over 140 sites globally. Our after-sales brand, Everllence PrimeServ, also supports our customers through its worldwide service-center network.