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Worldâ??s first zero-emission nitrogen fertilizer plant being built by Atlas Agro

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TÃ©cnicas Reunidas has signed a contract with the green fertilizer company, Atlas Agro, for the development of a zero-carbon fertilizer plant, Pacific Green Fertilizer (PGF), in Richland, Washington, US. The plant will be the first of a series that Atlas Agro plans to build in multiple regions across the world. The estimated total investment is close to $1 billion.

The nitrogen fertilizer plant will use proprietary technology for the main process units and will be one of the worldâ??s first full scale zero-carbon nitrogen plant, using only air, water and zero-carbon electricity as raw materials. Â TÃ©cnicas Reunidas will start the execution of the plant through an EPC contract.

It will have the capacity to produce 650 000 tpy of calcium ammonium nitrate and will be composed of the following main units: ammonia, nitric acid, ammonium nitrate, calcium ammonium nitrate, calcium nitrate, electrolyzers and air separation.

Atlas Agro is building a series of plants to provide the farmers with truly sustainable zero-carbon nitrogen fertilizer, made locally.Â Atlas Agroâ??s fertilizers not only improve crop yield and quality and help farmers care for their land and reduce their environmental impact, but also earns farmers premiums for their crops thereby increasing their incomes.Â

The Spanish company TÃ©cnicas Reunidas dominates in the sector internationally, with a presence in 25 countries and a track record of more than 1,000 industrial plants throughout its 60 years of experience. TÃ©cnicas Reunidasâ?? is mainly focused on the development of engineering projects, design and construction of industrial plants for the production of clean fuels, natural gas and chemical products, and solutions linked to the energy transition, circular economy and decarbonization (renewable hydrogen, biofuels, waste recovery, CO2 capture and storage, etc.).