

## Innovation Showcase 2018

Organised with PEXE, the Innovation Showcase is a competition which rewards the innovations declared by Pollutec exhibitors that are most promising in terms of market potential. This year, the show received 191 declarations of innovations and approved 156 (see [www.pollutec.com](http://www.pollutec.com), Innovation section). Of the 156 that were approved, 120 applied for the Innovation Showcase. PEXE selected 80 of these and presented them to the pre-selection judges who shortlisted 20 in early November. The 20 shortlisted companies\* presented their innovations on 28 November at Pollutec before a second panel of judges comprising 26 professionals (7 funds, 5 local authority and planning representatives and 14 major companies). The three companies that obtained the highest scores were awarded prizes. They received their prizes from Brune Poirson, Secretary of State at the Ministry of Ecological and Inclusive Transition and Jean-Claude Andréini, Chairman of PEXE.

### • Starklab

Since 2011, Starklab has been developing the Terraosave system which recovers pollutants (fine particles, acids, heavy metals, etc.) and thermal energy from the industrial fumes emitted by boilers, incinerators, heating networks and agricultural driers. The “two-in-one” system of condensers-washers is manufactured in the form of turnkey skids in the company’s factory at Grande-Synthe (Hauts-de-France). The energy savings are such that industrial companies can recover their investment in less than four years.

### • STEPSol

Established in 2016, STEPSol has developed a system capable of producing and storing energy by coupling photovoltaic production with micro-PHES (pumped hydroelectric energy storage) technology (STEP in French). During the day, solar panels supply a village; any surplus electricity is used to operate a system that pumps water from a lower reservoir to a higher one. When solar production is insufficient, the water flows back down, operating a turbine that produces electricity. The water thus acts as a hydraulic battery, controlling solar production and making it flexible. This simple, long-lasting and clean form of energy production fits easily into the environment.

### • Nereus

Since 2013, Nereus has been specialising in low-energy-consumption industrial water extraction equipment. As part of an inter-regional project, the company has developed a system that converts restaurant waste water into drinking water. After several treatment stages (separation, nano-filtration, reverse osmosis) the water is remineralised before being UV-processed. Customers at this Belgian restaurant can choose between this recycled water and tap water provided by the local authority. The system can treat 12m<sup>3</sup> of effluent per day, extracting nearly 10m<sup>3</sup> of water.

Apart from the competitive aspect, which highlights innovative systems presented at Pollutec according to their market potential and gives them even more exposure within the sector, the Innovation Showcase also opens interesting perspectives for the prize-winners and also for the shortlisted companies, and sometimes opportunities between them. Some companies are already in touch with each other...

*\*BeeOdiversity, Betic, BioEnTech, C4Hydro, Chemdoc, Choquenot, Cleef System, Cycl-add, Deltalys, DeSpray Environmental, Ecomesure, Eggersmann, Envisol, Ethera, Haffner Energy, HyMag’In, Nereus, Polymem, Starklab, Stepsol. Find all these solutions (description, downloadable photos, contacts, etc.) on [www.pollutec.com](http://www.pollutec.com)*