



PRESS RELEASE

Belfort / Bry-sur-Marne, September 2, 2026

NEEXT and INVENTEC PERFORMANCE CHEMICALS partner to experimentally characterize reactive fluids aimed at revolutionizing energy efficiency

NEEXT, the start-up based in Belfort specializing in energy system optimization, and INVENTEC PERFORMANCE CHEMICALS, a subsidiary of the DEHON Group and a specialist in performance chemistry, announce the signing of two contracts for the physico-chemical and thermodynamic characterization of NEEXT's patented reactive fluids. This agreement marks a structuring step in the start-up's development, laying the first experimental cornerstone for the industrial validation of its technology.

Final step before NEEXT's first pilot installations

Through its two R&D programs, SPARTA and REVOLT, NEEXT is developing a groundbreaking innovation based on new patented working fluids ("reactive fluids"). These fluids stem from research conducted at the Laboratory of Reactions and Process Engineering (LRGP) in partnership with CNRS and the University of Lorraine. NEEXT holds an exclusive global license for all applications of these fluids, which aim to revolutionize the efficiency of thermodynamic cycles, whether for heat-to-power conversion or heat pumps.

To design its pilot installations and advance toward industrial demonstration, NEEXT must experimentally characterize the physico-chemical and thermodynamic properties of its candidate reactive fluids. Several dozen fluids are already under study, as each targeted application may require a specific fluid. This is the context in which the partnership with INVENTEC PERFORMANCE CHEMICALS has been established.

A multi-year partnership

Under these two contracts, which span several years, INVENTEC PERFORMANCE CHEMICALS will leverage its expertise in applied chemistry and fluid characterization to support NEEXT. At its laboratories in Bry-sur-Marne, its work will focus on:

- Measurement and validation using methods such as TGA (thermogravimetric analysis) and DSC (differential scanning calorimetry) to confirm the thermodynamic and chemical properties of candidate reactive fluids, validate their performance, and ensure their proper use for targeted applications.
- Risk analysis and fluid compatibility with materials to guide the design of custom equipment and, for existing installations, recommend the most suitable fluid for each situation.
- Synthesis processes and industrialization of reactive fluids that are not yet commercially available, taking into account economic and environmental criteria aligned with NEEXT's decarbonization goals.



Quotes

Alexis SESMAT, Chief Technology Officer (CTO) of NEEXT: "The signing of these contracts for our two R&D programs, SPARTA and REVOLT, is a major milestone. They will enable us to experimentally validate a number of results and hypotheses from our scientific team and its calculation codes. Once these validations are complete, we will be able to finalize the design and installation of our first heat-to-power and power-to-heat pilot cycles."

Christophe DEHON, R&D Director and Vice President of INVENTEC PERFORMANCE CHEMICALS: "NEEXT's reactive fluids, born from academic research, represent a promising advancement. We are proud to contribute to their development through analysis and characterization. This first experimental step is essential for their future deployment."

About NEEXT

Based in Belfort, a global center of excellence, NEEXT was founded in 2022 by expert energy engineers. With a team of around twenty collaborators, including engineers and researchers, NEEXT offers a range of innovative solutions and services in the industrialization of high-performance and sustainable energy production systems. NEEXT leads two R&D programs, SPARTA and REVOLT, aimed at revolutionizing the efficiency of thermodynamic systems through the use of reactive fluids. In 2024, the SPARTA program was selected as a winner of the "i-Demo 3" call for projects (development of industrial companies and services in high-potential markets) under France 2030.

Website: www.neext.energy

LinkedIn: <https://www.linkedin.com/company/neext-energy/>

About INVENTEC PERFORMANCE CHEMICALS

Inventec Performance Chemicals is a global B2B provider of Electronic Assembly Materials, Precision Cleaning Fluids, Protective Coatings and Thermal Management Fluids. For over 60 years we have shown leadership in innovation by putting HEALTH IMPACT, SUSTAINABILITY and RELIABILITY at the core of our product development.

With ISO 9001 & 14001 production sites in France, Switzerland, USA, Mexico, Malaysia and China we can guarantee a smooth and cost-effective supply chain across the globe. Trusted across many industries, our solutions excel in automotive, aerospace, semiconductor, energy, and medical applications where reliability matters most.

Site web: <https://www.inventec.dehon.com>

LinkedIn: <https://www.linkedin.com/company/inventecpc>



Press contact:

NEEXT:

press@neext.energy

INVENTEC PERFORMANCE CHEMICALS:

contact@inventec.dehon.com



From left to right: Alexis SESMAT, *Co-founder & Chief Technology Officer NEEXT*; Coline DELCASSÉ, *Research Engineer in Chemistry NEEXT*; Christophe DEHON, *R&D Director and Vice President INVENTEC*; Romain MARGARITA, *Research & Development Technician INVENTEC*; Valérie LUCAS, *Innovation Advisor, DEHON Group*