



Written on 30 June 2026



3 minutes of reading



News

IFPEN

Climate, environment and circular economy

Soil analysis and characterization



Press release  
Paris, June 30, 2026

**Valorhiz, IFP Energies nouvelles (IFPEN) and CCARBON have signed a Memorandum of Understanding (MoU) to develop scientific and technological cooperation focused on soil carbon.**

**This initiative builds on the work carried out within the Sustainable Soil Carbon Lab (SSCL), a joint laboratory established by IFPEN and Valorhiz in partnership with CIRAD (the French Agricultural Research Centre for International Development).**

## A key challenge for ecosystems

Carbon plays a fundamental role in the functioning of terrestrial ecosystems. Stored in soils, it contributes to soil fertility, biodiversity, water cycle regulation and resilience to climate change. Improving the characterization of soil carbon stocks and understanding their dynamics are major priorities for supporting ecosystem restoration, soil regeneration and climate change mitigation efforts. Through this agreement, Valorhiz, IFPEN and CCARBON aim to develop joint research projects, share their expertise and advance knowledge on the characterization, monitoring and enhancement of soil carbon.

This collaboration brings together leading research and innovation organizations from France and Brazil to accelerate scientific knowledge and develop solutions addressing major environmental and climate challenges.

## Building on the Sustainable Soil Carbon Lab

This new milestone extends the work of the Sustainable Soil Carbon Lab (SSCL), a joint laboratory created by IFPEN and Valorhiz with the support of the French National Research Agency (ANR). The laboratory aims to improve soil analysis techniques used to characterize and quantify both organic and inorganic soil carbon, while assessing the biogeochemical stability of soil organic matter. Through its innovative approach, the SSCL aspires to become a recognized international expert partner in the fields of sustainable land management, soil and ecosystem health preservation and restoration, and soil carbon sequestration.

### Press Contacts

**IFP Energies nouvelles (IFPEN)** Amélie Poncelet : [amelie.poncelet@ifpen.fr](mailto:amelie.poncelet@ifpen.fr)

**Press Agency** Coradine Sersiron : +33 (0)6 23 84 70 44 Murielle Mazau: +33 (0)6 46 90 32 80

[ifpen@ekno.fr](mailto:ifpen@ekno.fr)

### About IFP Energies nouvelles (IFPEN)

IFP Energies nouvelles (IFPEN) is France's national research and training institute dedicated to energy, mobility and the environment. Its teams innovate for a low-carbon, sustainable world, from scientific concepts to technological solutions. Through technologies, software, equipment and services, IFPEN's low-carbon innovations help drive the energy transition and foster the emergence of future industrial sectors. Combining bold vision with scientific rigor, IFPEN designs the solutions that will shape tomorrow's society.

More information: [www.ifpenergiesnouvelles.fr](http://www.ifpenergiesnouvelles.fr)

### About Valorhiz

Valorhiz and its subsidiaries have developed recognized expertise in the design, delivery and implementation of innovative solutions for functional diagnostics, biological treatment and monitoring of soils and ecosystems. The Valorhiz Group provides turnkey solutions for professionals in environmental services, ecological restoration, landscaping, urban development, agriculture and the circular economy. Its services cover every stage of a project, from site assessment and feasibility studies to the design, engineering and implementation of tailor-made nature-based solutions, followed by medium- and long-term monitoring. The Valorhiz Group operates both in France and

internationally.

[valorhiz.com](http://valorhiz.com)

[www.cassia-technologies.com](http://www.cassia-technologies.com)

[talveg-innovations.com](http://talveg-innovations.com)

[www.holma-environnement.com](http://www.holma-environnement.com)

### **About CCARBON**

CCARBON (Centre for Carbon Research in Tropical Agriculture) is a research center at the University of São Paulo (USP), Brazil, dedicated to the study of carbon in tropical agricultural ecosystems. Internationally recognized for its work on soil carbon sequestration, sustainable agriculture and nature-based solutions, CCARBON develops scientific and technological approaches that reconcile agricultural productivity, natural resource conservation and climate change mitigation. The center brings together researchers, public institutions and private-sector partners to advance research, innovation and knowledge transfer through national and international collaborative projects.

[www.ccarbon.usp.br](http://www.ccarbon.usp.br)

Soil Carbon: Valorhiz, IFP Energies nouvelles and CCARBON strengthen franco-brazilian cooperation to support ecosystem resilience

30 June 2026

Link to the web page :