

# Encevo Launches First Joint Research Projects with University of Luxembourg and LIST

*Encevo S.A. announced today that they have signed a Partnership Framework Agreement with the Luxembourg Institute of Science and Technology (LIST), and the University of Luxembourg's Interdisciplinary Centre for Security, Reliability and Trust (SnT). This Partnership Framework Agreement follows the signature of an MoU in 2021. In this context, Encevo, SnT and LIST have also launched the two first research projects. The common aim is to unite innovative forces in order to accelerate the transition to a sustainable energy landscape.*

The first project, entitled *Flexibility potentials and user Behaviour Analysis (FlexBeAn)*, will focus on smart grids. As Luxembourg increases its reliance on renewable energy sources with more fluctuations than traditional sources and is confronted with other consumption patterns due to the decarbonisation of the heating and transport sector, its power grid must adapt. With the project FlexBeAn, Creos Luxembourg as owner and manager of the Luxembourg power grid aims to develop, together with LIST and SnT scientists, smart grid solutions for its electricity grids.

Within this research partnership, SnT will mainly focus on the identification of potential flexibilities in industry and on the understanding and appreciation of the evolution of energy markets over the next ten years and their implications on the electricity grids in Luxembourg.

LIST will focus on the area of society and grid flexibility with the aim of setting up an integrated model to assess the flexibility from different sectors and allow for adaptations by the user. This research will furthermore look at the level of energy literacy in Luxembourg and create a roadmap to change consumer behaviour, from increasing energy literacy to financial and non-financial incentives.

The second research project addresses the subject of intraday electricity market price forecasting and is a collaboration between Enovos, the energy supplier within Encevo Group and SnT. The aim is to develop a model to forecast power prices tendency in real-time via a granular forecasting model. This includes game theoretical modelling of market participants as well as fundamental data like weather (e.g., for forecasting renewable energy production and consumption).

“We are looking forward to embarking on these complex projects with such capable research teams,” says Claude Seywert, CEO of Encevo S.A. “Innovation is the key to successfully

transitioning Luxembourg to renewable energy, and we are fortunate to have such high-level scientists at SnT and LIST to work on these projects with our teams.”

“This project will be a natural extension of work that LIST has been doing for years related to the energy transition,” says Thomas Kallstenius, CEO of LIST. “This project will expand our scope and allow us to collaborate more closely with Encevo and SnT to drive successful solutions to this urgent need.”

“These research projects will address demands on the power grids of the future bringing researchers and industry together to deliver practical solutions,” says Prof. Björn Ottersten, Director of SnT. “Creos has a clear path forward for the energy transition, that is based on their years of operational experience, and the cutting-edge prototypes we will deliver with LIST will turn that into a reality.”

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**About Encevo:**

Encevo Group is a leading and sustainable energy player in Luxembourg and the Greater Region. Committed to ensure a secure access and competitive supply of energy, Encevo actively helps shaping the transition to a sustainable energy sector. It does so by embracing technology, deploying innovative solutions and partnering up with local communities. Encevo Group has a very broad geographical footprint and serves clients in Luxembourg, Germany, France, Belgium and the Netherlands. It is present all along the energy value chain, from production, storage, supply, transport to trading, distribution and services. As a regional energy leader and key player in the energy transition, Encevo Group currently employs a workforce of over 2,000 people.

**About LIST:**

The Luxembourg Institute of Science and Technology (LIST) is a mission-driven Research and Technology Organisation (RTO) active in the fields of materials, environment and IT. LIST develops competitive and market-oriented product/service prototypes for public and private stakeholders, and works across the entire innovation chain: fundamental/applied research, incubation, transfer of technologies. By transforming scientific knowledge into technologies, smart data and tools, LIST empowers citizens in their choices, public authorities in their decisions and businesses in their strategies.



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### **About SnT**

The Interdisciplinary Centre for Security, Reliability and Trust (SnT) at the University of Luxembourg conducts internationally competitive research in information and communication technology. In addition to long-term, high-risk research, SnT engages in demand-driven collaborative projects with industry and the public sector through its Partnership Programme. The resulting concepts present a genuine, long-lasting competitive advantage for companies in Luxembourg and beyond. [www.snt.uni.lu](http://www.snt.uni.lu)

### **About the University of Luxembourg**

The University of Luxembourg is an international research university with a distinctly multilingual and interdisciplinary character. The University was founded in 2003 and counts nearly 7,000 students and more than 2,000 employees from around the world. The University's research focuses on the key areas of digital transformation, medicine and health, and sustainable and societal development. The University's faculties and interdisciplinary centres research is centred on Computer Science and ICT Security, Materials Science, European and International Law, Finance and Financial Innovation, Education, Contemporary and Digital History. The University of Luxembourg offers 17 Bachelor's, 46 Master's Degrees and custom-made training programmes for Ph.D. candidates in 4 doctoral schools. Times Higher Education ranks the University of Luxembourg #3 worldwide for its "international outlook," #25 in the Young University Ranking 2022 and among the top 300 universities worldwide.

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