

September-December  
2024

Issue

7

Photo: reproduction Campus Sustentável

# CPTEn Newsletter

**CPTEn**   
Centro Paulista de Estudos da Transição Energética

## Energy transition to move the world

The last months of 2024 were marked by intense activities and achievements for the São Paulo Center for Energy Transition Studies (CPTEn) and to the initiatives for energy transition and sustainability at Unicamp: the CampusGrid microgrid and the smart lighting system of the Sustainable Campus Office were inaugurated; CPTEn members participated in COP29; the Inventors Award recognized CPTEn's work; researcher participated in Fapesp Week Spain, in Madrid; and much more.

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Photo: Pedro Amatur, Inova Unicamp

## CPTEn project receives Unicamp's Inventors Award for innovation

Hosted by the Unicamp Innovation Agency (Inova), the Inventors Award was created to celebrate the contributions of faculty, researchers and students from the University and partner institutions in Research, Development, and Innovation (R&D&I) agreements. In its 17th edition, the 2024 Inventors Award recognized the software PC286\_MERGE, developed at the School of Electrical Engineering and Computer Science (FEEC) by researchers associated with CPTEn.

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Photo: Julia Devito

## CPTEn produces a guide on Energy Transition and Education for schools

A brochure developed by CPTEn offers schools and educational institutions suggestions on how to approach energy transition in classrooms. For example, calculations on carbon footprint and energy generation capacity from different sources can be included in Math lessons, the processes involved in biofuel production can be topics for Chemistry lessons, differences in the energy matrices of countries can be discussed in Geography lessons, and the effects of climate change are important discussions for Sociology classes.

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Photo: divulgação COP29

## Unicamp delegation participates in COP29

Aiming to strengthen its role in combating climate change, Unicamp participates in the 29th United Nations Climate Change Conference (COP29), held in Azerbaijan from November 11 to 22. Members of the Central Administration, researchers, and leaders of sustainability projects are part of the University's delegation.

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Photo: Antonio Scarpinetti, SEC Unicamp

## Olhos no Futuro program concludes semester activities with public school students

The 6th Olhos no Futuro project received 176 students from the 6th to 9th grades and 14 teachers from the E. E. Dr. Telêmaco Paioli Melges state school on November 12. The project is part of the multidisciplinary Olhos no Futuro program, which aims to train agents of transformation for sustainability, a program aligned with the United Nations (UN) Sustainable Development Goals.

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Photo: CPTEn/Unicamp

## Unicamp and CPFL inaugurate a microgrid at Barão Geraldo campus

On November 21, the CampusGrid was inaugurated, an autonomous microgrid that integrates generation, storage, and electricity distribution technologies. With the installation of CampusGrid, an area of approximately 140,000 square meters at Unicamp's Barão Geraldo campus will operate with independent energy distribution, even during supply interruptions, such as power outages.

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Photo: MERGE/Unicamp

## CPTEn participates in the closing workshop of MERGE R&D Project

On December 3, CPTEn participated in the closing workshop of the MERGE R&D Project (Microgrids for Efficient, Reliable, and Greener Energy). The event was held at CPFL's headquarters in Campinas. During the workshop, topics related to the project scope were discussed, including issues concerning microgrid regulation, the development of standards and norms, cybersecurity and market studies.

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Photo: Alicia Astoniza/UCM

## Digital technologies help increase productivity and reduce the impacts of agriculture

Barbara Teruel, researcher and Communication Coordinator at CPTEn, participated in Fapesp Week Spain, held on November 27 and 28 at the Complutense University of Madrid, Spain. During the event, she presented the results of a project from Feagri/Unicamp that uses a miniaturized radar system embedded in drones to create soil moisture maps for crops such as sugarcane.

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Photo: Campus Sustentável/Unicamp

## Smart lighting system inaugurated at the Sustainable Campus Office

On the morning of December 2, the Sustainable Campus Office was illuminated by a new smart lighting system, donated by the companies GHM Solutions, B.E.G. Brasil Ltda., and Vitalis Energia Ltda., in a demonstration of support for the Living Lab for Energy Transition, Efficiency, and Sustainability. The inauguration was led by Professor Luiz Carlos Pereira da Silva, coordinator of CSUS and director of CPTEn, and Danúsia Arantes, associate researcher, in the presence of Professor Cristiano Torezzan, representing the rector of Unicamp.

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