



# News and progress

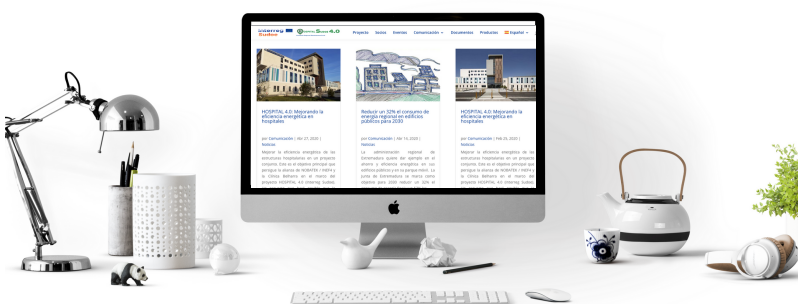
SECOND EDITION. 2021



## WHAT ARE WE DOING

In 2020-2021, the partners of Hospital Sudoe 4.0 have been mainly working and collaborating on:

- **Digital platform:** The Hospital Sudoe project enters the presentation phase of the "Sudoe Hospital Platform 4.0", which offers its users tools dedicated to the efficient management of buildings through the combined action of energy monitoring and the creation of a digital twin of the building.
- **Survey:** During the months of February and March 2021, ESTIA conducted a survey on thermal comfort at the Belharra Clinic in Bayonne. Specifically, 250 patients and visitors were asked their assessment of temperature and humidity in the healthcare complex with positive results.
- **Monitoring work:** The monitoring work carried out within the Hospital Sudoe 4.0 project will allow us to know the energy needs of the three hospitals in Spain, Portugal and France, and the way forward to reduce their energy consumption and achieve more efficient and comfortable hospitals.



## Interreg Sudoe

The Interreg Sudoe Programme supports regional development in southwestern Europe, funding transnational projects through the ERDF Fund

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## ITCL

The Instituto Tecnológico de Castilla y León (ITCL) is a private non-profit foundation established in 1989 and whose purpose is to promote and facilitate the use of technology as a competitive tool for industrial companies and other organizations, using knowledge units and experience as a competitive strategy, with a commitment to integration into science-technology-company-society.

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## Government of Extremadura

Directorate-General for Accessibility and Centres  
Belonging to the Ministry of Health and Social  
Services of the Junta de Extremadura (Spain)

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## FundeSalud

Foundation for the Training and Research of Health Professionals in Extremadura (Spain). The Foundation for the Training and Research of The Health Professionals of Extremadura (FundeSalud) is a Foundation of the public health system of Extremadura not for profit and for purposes of general interest attached to the Ministry of Health and Social Services of the Junta de Extremadura.

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## NOBATEK INEF/4

NOBATEK/ INEF4 is an applied research center, National Institute of Energy Transition and Environmental Construction. Accelerate innovation from idea to market. Its teams of researchers and engineers work together to develop and apply innovative solutions and products in the market to improve the energy performance and environmental quality of buildings and neighborhoods.

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## ADENE

Agency for Energy (Portugal). ADENE – Energy Agency is the national energy agency, a private, non-profit and utilities association whose mission is to develop activities in the area of energy, water efficiency and energy efficiency in mobility.

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## Instituto Superior Técnico

With a community of more than 12,000 people, Técnico is the largest school of architecture, engineering, science and technology in Portugal.

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## ESTIA

The École Supérieure des Technologies Industrielles Avancées (ESTIA) is a French engineering and research graduate school. Over time ESTIA has been weaving different structuring partnerships in France and abroad and actively collaborates with various clusters and competitiveness poles.

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# NEWS

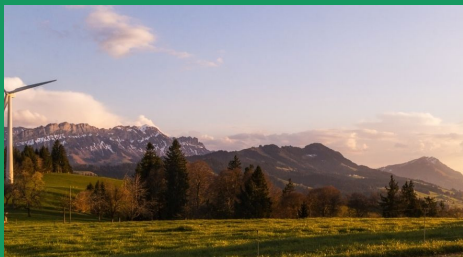
The Portuguese city of **Leiria** hosted on October 27 and 28 the meeting of the Sudoe Hospital 4.0 Project Consortium to publicize all the advances made in the Interreg Sudoe project started two years ago. A work in which partners from Spain, France and Portugal participate and which seeks to achieve more efficient hospitals throughout the Sudoe territory. Thanks to the collaboration of **ADENE**, the meeting has been able to count on the presence of all the beneficiary entities of the project. The meeting is also attended by representatives of the Perpetuo Socorro hospitals in Badajoz (Spain) and Santo Andre de Leiria (Portugal) as associated beneficiaries of Hospital Sudoe 4.0.



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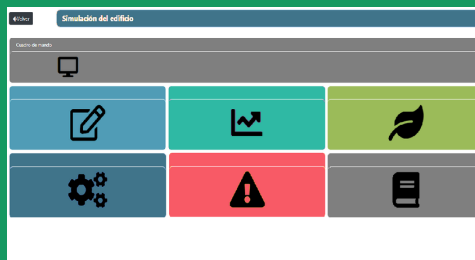
## Energy and Climate Plan 2021-2030

Extremadura has approved the 'Integrated Energy and Climate Plan of Extremadura 2021-2030 with a budget of 18,640 million in renewable energies.



## Sudoe Hospital 4.0 Platform

"Sudoe Hospital Platform 4.0" offers its users tools dedicated to the efficient management of buildings through the combined action of energy monitoring and the creation of a digital twin of the building.



## Survey on thermal comfort in Clinica Belharra

ESTIA conducted a survey on thermal comfort at the Belharra Clinic in Bayonne. Specifically, 250 patients and visitors were asked their assessment of temperature and humidity in the healthcare complex with positive results.



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# IT+3R IN ÁVILA

Responsible for Hospital Sudoe 4.0 presented the latest developments of the project at the 'ITE+3R' Congress held in **Ávila**, Spain. A meeting focused on the circular economy and sustainable development, in which the latest advances of an Interreg Sudoe project that seeks to implement energy efficiency models for the renovation of hospital complexes in order to save energy and **reduce their emissions** were announced. The III ITE+3R Congress offers a continuity to the two previous editions held in Burgos and León. Experts in urban **rehabilitation**, resilience and sustainability participated in it.

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## Monitoring : more efficient and comfortable hospitals

The monitoring work carried out within the Hospital Sudoe 4.0 project will allow us to know the energy needs of the three hospitals in Spain, Portugal and France, and the way forward to reduce their energy consumption and achieve more efficient and comfortable hospitals.

## Commitment to the energy performance of health centers

NOBATEK/INEF4 is fully committed to the energy performance of tertiary buildings, including health centres. Thus, and in line with its work in the HOSPITAL SUDOE 4.0 project with its partner in the Ramsay Santé Group, NOBATEK/INEF4, it is working to improve energy efficiency and promote energy self-production.

## Control of water consumption in public buildings in Portugal

The AQUAMONITOR project was born with the aim of evaluating energy efficiency in water. Specifically, it will allow the Portuguese public administration to have access to information on its water consumption in all its public buildings with special attention to the hospital and health field. The tool has been developed by ADENE.



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