



The **13**th International Conference on
**ENERGY AND
ENVIRONMENT RESEARCH**

PORTO, PORTUGAL // JULY 15-17, 2026 //



WELCOME MESSAGE

It is our great pleasure to welcome all participants of the 13th International Conference on Energy and Environment Research (ICEER 2026), to be held at the Polytechnic Institute of Porto, Portugal, from July 15–17, 2026.

The ICEER conference series is dedicated to a broad spectrum of research topics in energy systems, environmental science, sustainability, and the transition towards a low-carbon future. Over the years, ICEER has established itself as an international forum where researchers, academics, and industry professionals come together to exchange ideas and advance multidisciplinary solutions to global energy and environmental challenges.

In the 2026 edition, themed “Foundations of Sustainability”, we aim to foster high-quality contributions that integrate scientific innovation, engineering practice, and policy perspectives. We strongly believe that today’s challenges require interdisciplinary collaboration and systems-level thinking, rather than isolated or unidimensional approaches that overlook broader environmental and societal impacts.

We are delighted to welcome participants from over 20 countries and regions, representing diverse academic and professional backgrounds. Beyond the scientific sessions, we encourage all delegates to actively engage in discussions, build new collaborations, and share recent developments and experiences across different regions of the world.

The conference program features invited keynote speeches by internationally recognized experts, alongside full oral presentations, poster sessions, and thematic workshops. These sessions are carefully organized to promote meaningful discussion and foster a collaborative research environment.

In addition, ICEER 2026 includes a range of social and networking events, offering participants opportunities to relax, connect informally, and strengthen professional relationships in a more engaging setting. We hope that every participant—from early-career researchers to senior experts—will find this conference both intellectually rewarding and personally enriching.

Selected high-quality papers will be considered for publication in peer-reviewed books, further enhancing the academic impact of ICEER 2026.

Finally, we would like to express our sincere gratitude to all members of the organizing and scientific committees, reviewers, and secretariat team for their invaluable contributions. Most importantly, we thank all authors and participants whose involvement makes ICEER 2026 possible.

We wish you a productive conference and a pleasant stay in Porto, Portugal.

Conference Committee

CONFERENCE AGENDA

Sign-in & Conference Materials Collection		July 15, 2026 16:00-18:00
July 16, 2026 Thursday		
09:00-09:10	Welcome Message	Room A
Keynote Speech		
09:10-09:50	Prof. Gilles Notton University of Corsica Pasquale Paoli, France	
09:50-10:30	Prof. Zhengwei Li <i>Tongji University, China</i>	
10:30-11:15	Group Photo & Coffee Break & Poster Session 1	Foyer
Technical Session		
	Room A	Room B
11:15-12:30	Oral Session 1	Oral Session 2
12:30-14:00	Lunch	
14:00-15:30	Oral Session 3	Oral Session 4
15:30-16:00	Coffee Break	
16:00-17:30	Oral Session 5	Oral Session 6
17:30-18:30	Oral Flash Session	
18:30-18:45	Closing Remarks	
20:00-22:30	Conference Dinner (& Awards)	
July 17, 2026 Friday		
10:00-17:00	City Tour (Pending)	

LIST OF PRESENTATIONS

Oral Session 1	Sustainable Buildings, and Development
	E042, E052, E122, E133, E068
Oral Session 2	Life Cycle Analysis Methodologies
	E069, E130, E045, E131, E118
Oral Session 3	Modelling, Simulation and Forecasting of Energy and Carbon Markets
	E066, E078, E089, E079, E102, E108
Oral Session 4	Energy and Environment
	E062, E051, E123, E031, E117, E097
Oral Session 5	Energy Efficiency
	E080-A, E082, E107, E037, E077, E059
Oral Session 6	Energy Policy and Renewable Energy
	E032, E064, E039, E025, E124, E081
Oral Flash Session	E055, E026, E038, E054, E057, E060, E087, E109, E112, E114, E116, E119
Poster Session	E070-A, E008-A, E015-A, E034-A, E040-A, E053-A, E056-A, E058, E093, E094-A, E100-A, E104-A, E113, E134, E127-A, E098, E099, E111, E132, E135, E043, E035

PRACTICAL INFORMATION

Conference Registration

The conference registration fee includes admission to all keynote sessions and parallel sessions. It also includes lunch, coffee breaks and the dinner on the 16th July, 2026.

Registration/Information Desk

16:00-18:00, Wednesday, 15th July, 2026. (GMT+1)

9:00-16:00, Tuesday, 16th July, 2026. (GMT+1)

Personal Belongs Safety

Please take care of your safety and all personal belongings and wear your name tags during the whole conference and lock the door when you leave the room or take a break. No responsibility or liability is accepted by the conference organizer in respect of any loss or damage.

Please turn your mobile phone silent before the meeting starts to keep the venue quiet.

Dress Code

All participants are required to dress formally.

Casual wear is unacceptable. National formal dress is acceptable.

Social Media



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iconf-ee



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ONSITE CONFERENCE NOTICE

Conference Venue

ISEP INSTITUTO SUPERIOR
DE ENGENHARIA DO PORTO

Polytechnic Institute of Porto

Add: Rua Dr. Roberto Frias, 712 4200-465 Porto, Portugal

How to get to GECAD / ISEP

Porto is a modern European city that is served by an international airport, railways, and a public transportation system that includes bus services and subway lines. Porto was elected Best European Destination in 2012, 2014, and 2017.

GECAD is located at the School of Engineering of the Polytechnic of Porto (ISEP/IPP). It is located in the main university area of Porto, ten minutes away from the city center by subway. The campus is easily accessible by public transportation: It is just across from the IPO subway station (Yellow Line | D-line), and it is also served by buses.

If you are driving, the entrance to our parking lot is on Rua de S. Tomé.



Figure 1 Entrance of Rua São Tomé (Parking).



Figure 2 Entrance of Rua Dr. António Bernardino de Almeida

Public Transportation

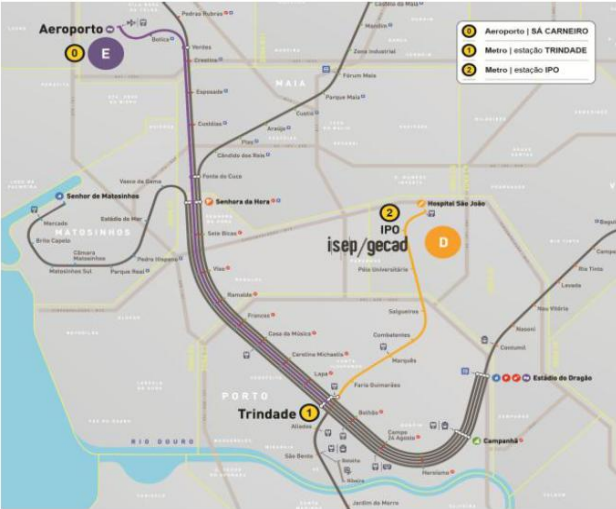
AIRPORT – PORTO - FRANCISCO SÁ CARNEIRO |

<https://www.aeroportoporto.pt/en/opo/home>

SUBWAY (METRO DO PORTO) 6AM TO 1AM | <http://www.metrodoporto.pt>

You can purchase the title in vending machines at several Metro stations (or Lojas Andante)*

* Alternative of single tickets: Andante Tour 1 (24 consecutive hours after 1st validation) ~€7.50; Andante Tour 3 (72 hours) ~ €16.00.



Dias Úteis Mondays to Fridays		Sábados Saturdays		Domingos e Feriados Sundays & Holidays	
Horas	T.M.E.	Horas	T.M.E.	Horas	T.M.E.
06 - 07	07'	06 - 09	07'	06 - 00	07'
07 - 21	04'	09 - 21	05'	00 - 01	08'
21 - 01	08'	21 - 01	08'		

Metro						
	Line	From:	To:	Time	Zone	Price
Airport - City center	E+D ¹	Airport	Aliados or São Bento	~36"	Z4	~€2.25
Airport - ISEP	E+D ¹	Airport	IPO	~43"	Z4	~€2.25
City center - ISEP	D	Aliados or São Bento	ISEP	~20"	Z2	~€1.40

BUS (STCP LINES) | <http://www.stcp.pt>

Bus						
	Bus	From:	To:	Time	Zone	Price ²
Airport - City center	602	Airport	Cordoaria	~44"	Z4	~€2.50
Airport - ISEP	604	Airport	Hospital São João	~44"	Z4	~€2.50
City center - ISEP	300	Aliados	ISEP	~35"	Z3	~€2.50
City center - ISEP	301	Cordoaria	ISEP	~35"	Z3	~€2.50

TRAIN (CP RAILWAYS) | <http://www.cp.pt>

TAXI | <http://www.raditaxis.pt> | Tel.: +351-225 073 900

Taxis are available 24 hours a day throughout the city at taxi ranks. You can hail them in the street or call a taxi company. They take up to 4 passengers. Every taxi has a meter indicating the cost of your journey to be paid at the end of the trip. The receipt is compulsory. Tariff charges are posted on the window of the rear door, on the left side of the taxi. A supplement is payable for baggage exceeding 55 x 35 x 20 cm. Estimated prices and distances: Porto Airport to the city center (Av. dos Aliados)– 15.3 km – 20' – ~€20

OTHER TRANSPORTATION AVAILABLE

	https://uberportugal.pt/portugal/		https://bolt.eu/pt-pt/
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INFORMATION ON NEARBY HOTELS

- 14** Ibis Porto São João Hotel - 2* | <http://www.ibis.com> 10" walking time
- 7** Eurostars Oporto Hotel - 4* | <http://www.eurostarsoporto.com/> 14" walking time
- 5** Axis Hotel - 4* | <https://www.axishoteis.com/pt/axis-porto.html> 28" walking time

These are the hotels closest to ISEP. The D subway line directly connects the city center and ISEP (Pólo Universitário) in about 15 minutes.



ONSITE PRESENTATION GUIDELINE

Oral Presentations

- A maximum of 15 minutes total, including 3 minutes for Q&A. Please make sure your presentation is well timed. Please keep in mind that the program is full and that the speaker after you would like their allocated time available to them.
- Each presenter is required to copy the slide file (PPT or PDF) to the computer in the corresponding session rooms 10 minutes before the session starts.
- Please note that each session room will be equipped with a LCD projector, screen, point device, microphone, and a laptop with general presentation software such as Microsoft Power Point and Adobe Reader. Please make sure that your files are compatible and readable with our operation system by using commonly used fronts and symbols. If you plan to use your own computer, please try the connection and make sure it works before your presentation.
- If your Power Point files contain videos or audios, please make sure that they are well formatted and connected to the main files.

Oral Flash Presentations

- Presenters shall prepare printed posters or PPT for oral flash presentation.
- The allotted time per each presenter is 5 minutes including Q&A, highlighting the key results presented in the poster.
- Poster size: A1 in color print. Posters must be in portrait format(height>width). This cannot be modified. The poster should include Paper ID, Conference Name's Acronym, Significance of the research, the methods used, the main results obtained, and conclusions drawn
- Presenters shall arrive at the meeting room 15 minutes before the session starts.
- Please take your poster to the conference by yourself. The conference organizer won't send/keep any posters after the conference.
- After the Oral Flash session, presenters can discuss the works they presented.

Poster Presentations

- Each poster is for 3 minutes, highlighting the key results presented in the poster. Flash could be presented by poster or slides.
- Language: English. Color printing.
- Poster Size: A1 in PORTRAIT orientation. The poster should include: Paper ID, Conference Name's Acronym, Significance of the research, the methods used, the main results obtained, and conclusions drawn.
- The number of slides should be restricted to 3 content slides (excluding the title slide and acknowledgment slide).
- Posters are required to be condensed and attractive.
- Please take your poster to the conference by yourself. The conference organizer will not send/keep any posters after the conference.

CONFERENCE COMMITTEE

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PT

ISEP

Adriano Santos

PT

INEGI/ISEP

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PT

LEPABE/FEUP & CIETI/ISEP

Carlos Felgueiras

PT

CIETI/ISEP

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Carlos Felgueiras

PT

CIETI/ISEP

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Zita Vale	GECAD/ISEP/P.Porto	PT
Wojciech Czekala	University of Life Sciences in Poznań	PL

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Research Interests: Sustainability, Environment, Energy and Optimization



Florinda Figueiredo Martins has a PhD in Chemical and Biological Engineering, a Master in Environmental Engineering and a degree in Chemical Engineering from the Faculty of Engineering, University of Porto, Porto, Portugal, obtained in 2007, 1998 and 1989, respectively.

Florinda Martins worked in industry as a process engineer and in the development of engineering projects. Further she was the director of a wastewater treatment plant.

Nowadays is Adjunct Professor at Instituto Superior de Engenharia do Porto (ISEP), School of Engineering, Polytechnic Institute of Porto (IPP), Porto, Portugal. She has supervised several Master thesis. She was sub director of the degree of Chemical Engineering in ISEP (from 2009 -2018). Member of of several EURACE accreditation processes of Chemical Engineering department' s courses. Team member of national projects and projects in collaboration with the Portuguese Industry and Public Organizations . Coordinator by REQUIMTE/ISEP of 2 projects. Chair of conference EES 2012 (Energy, Environment and Sustainability 2012). Member of the Organizing/Scientific Committee of several international conferences in the areas Environment, Energy and Sustainability. Reviewer of several scientific journals in the areas of Environment, Energy, Bioresources, etc. . Author/co-author of 1 book, an e-book and several book chapters. Author/co-author of more than 40 publications in conferences and journals. She has presented several oral and poster communications in conferences. Her research interests include sustainability, environment, energy and optimization.

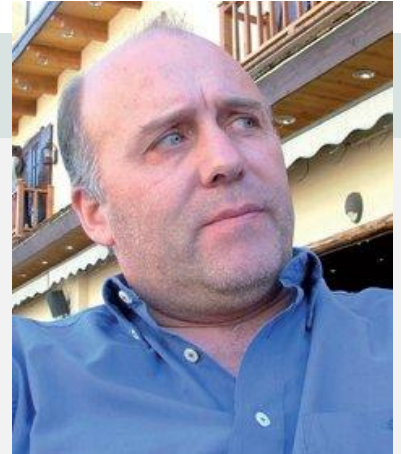
GENERAL CHAIR

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Research Interests: Mechatronics, Maintenance, Robotics, AI, Mechanical Engineering and Sustainability.



Adriano A. Santos is a graduate in Mechanical Engineering-Production Management at the School of Engineering (ISEP), from the Polytechnic of Porto (P.Porto); he has a Master Degree in Mechanical Engineering-Industrial Maintenance at the Faculty of Engineering of the University of Porto (FEUP), Portugal, and at the same university he got his Ph.D. degree in Mechanical Engineering in the field of Automation.

He is an Assistant Professor at the Mechanical Engineering Department of the School of Engineering, Polytechnic of Porto, Portugal, and the Head of the Postgraduate Program in Industrial Automation and Robotics. He is co-author of 3 books in the field of Industrial Automation, and an author or a co-author of more than 40 articles, book chapters in journals and conference proceedings papers. He has participated in the Scientific Committee, at various events, such as ICEER, TEEM, ICIE, ICorSE and others.

He is also a reviewer for some of the most prestigious international journals and a member of the research group of Intelligent Systems & Control at LAETA-INEGI and CIDEM at ISEP, in Porto, Portugal. He has also a Member of the Editorial Board of IJOMAM (International Journal of Mechatronics and Applied Mechanics), EAI Endorsed Transactions on Digital Transformation of Industrial Processes and Journal of Machine Design and Automation Intelligence, and Lead Guest Editor of Special Issues in indexed journals.

His main interests are related to Industry 4.0, more specifically in the design of the mechatronic (pneumatic and oil-hydraulics) system, Maintenance, Robotics, AI, Mechanical engineering and Sustainability.

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PROGRAM CHAIR

PROF. NÍDIA CAETANO

LEPABE/FEUP & CIETI/ISEP, Portugal

E-Mail : nsc@isep.ipp.pt

Research Interests: Biofuels from Waste;
Bioethanol; Biodiesel; Waste-to-Energy etc.



Research Unit

LEPABE – Laboratory for Process Engineering, Environment, Biotechnology and Energy

Nationality

Portuguese

Institutional Address

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I-3934-2012

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55901684900

Nidia de Sá Caetano is Coordinator Professor at the School of Engineering (ISEP) of the Polytechnic of Porto, senior researcher with LEPABE/FEUP, collaborator researcher with CIETI/ISEP. Sub-Director of the Master in Sustainable Energies of ISEP (MSE) from 2018; Director of the MSE from 2013-2018.

Holding a PhD in Chemical Engineering, her scientific track record is: (1) 125 papers in WoS, (2) 6395 citations (in 5789 citing articles) in WoS, (3) H-index 28 in WoS, (4) PI of 4 projects funded by competitive calls (1 as coordinator of LEPABE), (5) researcher of 10 projects, supervision of (6) 5 doctoral and (7) >100 master theses concluded.

Major research interests are: Biofuels from Waste; Bioethanol; Biodiesel; Waste-to-Energy; Microalgae for wastewater treatment; Microalgae for CO₂ mitigation; Biorefineries; LCA; Sustainable buildings.

Subject Editor for Biomass of Renewable Energy from March 2020. Member of the Editorial Board, of Green Technology, Resilience, and Sustainability. Lead Guest Editor of 12 Special Issues in indexed journals (Energy Reports; Energies; Sustainability; Energy Procedia, Waste and Biomass Valorization, Processes) and Guest Editor of many other Special Issues (Frontiers; Climate; ChemEngineering). Conference and Program Chair of several International Conferences (ICEER series); Member of the STC of International Conferences (WASTES, CCESG, TEEM, REEE, ENASB, JTIR, etc.). Keynote and Invited Speaker for International and National Conferences. Treasurer of APESB (Portuguese Association of Environmental and Sanitary Engineering) from March 2021 (Vice-President from March 2020 to March 2021). Project evaluator for the EC (H2020 MSCA-ITN) from 2019, USDOA and ANI/AdI from 2006, Israeli Science Foundation, among other international and national agencies.

PROGRAM CHAIR

PROF. CARLOS FELGUEIRAS

Department of Electrical Engineering, School of Engineering (ISEP), Polytechnic Institute of Porto (IPP), Porto, Portugal

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Research Interests: energy quality; energy and buildings; energy and environmental Indicators; et.



Carlos Felgueiras achieved a bachelor's degree and a PhD in Electrical and Computer Engineering from the Faculty of Engineering-University of Porto, Portugal, in 1987 and 2008. His PhD addressed the development of mechanisms to support testing and debugging operations in mixed-signals circuits. Professional career activities included (1) testing of products, (2) developing test equipment and machinery automation, (3) a maintenance of electronic equipment, (4) training teacher at Texas Instruments plant, (5) supervisor of a testing laboratory to verify the compatibility of European Standards in thermoelectric household appliances, (5) Sectorial Standardization team Portuguese Electrotechnical Institute. He started teaching in 1993 and is currently a Coordinator Professor in the Department of Electrical Engineering at ISEP, Polytechnic of Porto, and is an Integrated Researcher at CIETI since 2001. He worked as Deputy Director of the Electrical Department between 2018-2019 and was Director of the master's degree in Sustainable Energies between 2018-2021.

His areas of research include Design for Debugging and Testing Mixed Signal Circuits, Remote Experimentation, e-learning, Renewable Energy Sources and Smart Buildings. He has participated in the organization of conferences (Conference Chair, Track Chair, Scientific Committee Chair), at various events, such as ICEER, TEEM and TAAE). He is co-author of around 130 articles, as well as co-editor of several scientific publications.

Prof. Felgueiras was part of a team of 9 national and European research projects, in the areas of Remote Laboratories, Smart Grids, Sustainability Education. Prof. Felgueiras is a member of (1) Portuguese Association of Engineers, (2); GOLC, (3) Asociación TAAE; (4) SPEE - Portuguese Society for Engineering Education, (5) ACM community.

KEYNOTE SPEECHES

PROF. GILLES NOTTON

University of Corsica Pasquale Paoli, France

ROOM A

July 16 2026

09:10-09:50



BIO

Gilles Notton is full professor in renewable energy systems with more than 37 years of experience. He received his PhD Degree and his "Accreditation to Supervise Researches" degree in Energy Engineering from the University of Corsica Pasquale Paoli in 1992 and 2002, respectively. The main objective of his research is to make intermittent and random renewable energies more easily controllable and usable by energy managers.

Gilles Notton's main research interests include renewable energy potential estimation and forecasting, hybrid renewable systems, energy management in smart electrical grid and particular energy situation of island territories.

Gilles Notton took part in multiple international research projects in collaboration with industrial partners and public parties such as the Horizon 2020 Tilos Project and COST Action TU1205.

In addition, he has published around 150 articles in international scientific journals and has more than 200 presentations in international conferences. He has participated in the development of several scientific books. He created and was responsible for an international scientific network on renewable energy between France and Eastern and Central European Countries.

He is associate-editor for the journal *Renewable Energy*, Elsevier.

Academic Profile: [Google Scholar](#)

ABSTRACT

Better Energy Management through Better Sharing: The Concept of Energy Community

Faced with the continuous increase in electricity consumption, it is necessary to find sustainable, efficient and inexpensive energy-supply solutions. This necessarily involves the development of renewable energies which, due to their intermittency and unpredictability, are not easily integrated into the electricity grid. Emerging solutions, made possible by the development of new information technologies and by changes in regulations, have emerged. Among them, collective renewable self-consumption, coupled with smart micro-grids and the development of storage, is a serious and rapidly developing candidate. The objective of this talk is to present the principle of this collective self-consumption, its advantages as well as its constraints and the wide range of research that this sector opens up in the fields of energy, electrical engineering, new technologies without forgetting the sociological and legal aspects.

KEYNOTE SPEECHES

PROF. ZHENGWEI LI

Tongji University, China

ROOM A

July 16 2026

09:50-10:30



BIO

Li Zhengwei, born in October 1981, holds a Ph.D. and serves as an Associate Professor and Master's Supervisor at the School of Mechanical and Energy Engineering, Tongji University. He received his Bachelor's degree in Building Environment and Equipment Engineering from Xi'an Jiaotong University in 2003, followed by a Master's degree in Power Engineering and Engineering Thermophysics from the same institution in 2006. In 2012, he earned his Ph.D. from the School of Architecture at the Georgia Institute of Technology in the United States. From May 2012 to September 2013, he conducted postdoctoral research at the City University of Hong Kong. He joined Tongji University in 2013, where he has served successively as an Assistant Professor and Associate Professor; during this period, he also held a temporary secondment position as Deputy Director of the Construction and Transportation Commission of Huangpu District, Shanghai.

His primary research interests include fault diagnosis and operational optimization of HVAC systems, diagnosis and prediction of whole-building energy consumption, and the application of transfer reinforcement learning in HVAC system optimization. He has led numerous research projects, including the Young Scientists Fund of the National Natural Science Foundation of China (Grant No. 51508394) and the Shanghai Pujiang Talent Program (Grant No. 15PJ1408100). He has published over 30 academic papers in prestigious journals such as *Energy and Buildings* and *Applied Energy*. His accolades include the Best Paper Award at the 3rd U.S. National Conference of IBPSA (2008) and a Team Award in the Student Competition at the International Conference of IBPSA (2009). Currently, he serves as the Deputy Director of the Intelligentization Professional Committee under the HVAC Industry Technology Innovation Alliance, and as a Committee Member of the Building Commissioning and Operation & Maintenance Professional Committee under the China Association of Building Energy Efficiency.

ABSTRACT

Study of transfer reinforcement learning in air conditioning cooling water system

Reinforcement learning (RL) offers a model-free approach to HVAC cooling side control but imposes a high start cost that is prohibitive for newly commissioned systems: the agent operates near-randomly in the early training stage, wasting energy before a useful policy is learned. Transfer reinforcement learning (TRL) addresses this by initializing the target agent with knowledge from a pretrained source agent. However, prior TRL work in building control has applied a single algorithm to a single type of source-to-target mismatch, leaving a critical

question unanswered: does the structural form of the agent carrier — the Q-table in Q-learning, the layer-decomposed Q-network in DQN, or the full policy network in DDPG — determine how much transferred knowledge survives when the target system differs from the source in equipment quantity, capacity, and topology. This paper presents TRL methods for Q-learning, DQN, and DDPG, each evaluated across three target systems that differ from a common source system along one configuration dimension each. A component-level gray-box cooling side model serves as the simulation environment, and an exhaustive search baseline establishes a theoretical performance ceiling. The results confirm that the detailed RL algorithm is the primary determinant of transfer effectiveness, and that topology is the critical boundary condition. Equipment quantity caused the least degradation across all three algorithms, with convergence speed improving by 46–64% after transfer. Topology produced the most divergent outcomes: DQN achieved its largest convergence improvement (69.2%), while DDPG produced negative transfer — the only case in the study where transfer yielded a worse converged result than learning from scratch. Across all cases, TRL improved convergence speed by 27–69% but final steady-state performance by only 0.77–3.37%, establishing that transfer functions as a convergence accelerator rather than a performance amplifier in cooling side control.

Oral Session 1

Sustainable Buildings, and Development

Time & Date

11:00-12:30 July 16th, 2026

Venue

ROOM A

Session Chair: Prof. Rui Calejo Rodrigues, University of Porto, Portugal

Paper Details	
E042 11:15-11:30	<i>Climate-induced Damage to The Built Environment: Evaluation Through Climatic Wind Tunnel Simulations</i> Riccardo Cacciotti, Arsenii Trush, Karel Dejmal Presenter: Dr. Riccardo Cacciotti , Institute of Theoretical and Applied Mechanics CAS, Czechia
E052 11:30-11:45	<i>Investigating the Zero-Energy Building Potential of Phase-Change Material-Integrated Moroccan Riads</i> Sinem Kültür, Yiğit Yılmaz, Najwa Nadere Presenter: Dr. Sinem Kültür , Bahçeşehir University, Türkiye
E122 11:45-12:00	<i>Sunlight for Sustainability: Evaluating the Environmental Impact of PV Systems in Student Residences</i> Carlos Felgueiras Presenter: Prof. Carlos Felgueiras , ISEP - LABORIS (CIETI), Portugal
E133 12:00-12:15	<i>Techno Economic and Energy Assessment of Tenebrio molitor–Enriched Bread for Sustainable Food Systems</i> Fernando Reis, Jefferson Souza, António Gil and Paula Quinteiro Presenter: Prof. Marta Ferreira Dias , GOVCOPP, DEGEIT, Universidade da Aveiro, Portugal
E068 12:15-12:30	<i>Segmenting Sustainable Textile Consumers: Evidence from a Latent Class Analysis</i> Pedro Rodrigues Ribeiro, Ana F. Moreno, Ted Scharf, Ignacio Cifre, Bahar Tunçgenç and Patrícia Oliveira-Silva Presenter: Associate Prof. Pedro Rodrigues Ribeiro , Universidade Católica Portuguesa, Portugal

Oral Session 2

Life Cycle Analysis Methodologies

Time & Date	11:15-12:30 July 16 th , 2026	Venue	ROOM B
Session Chair: Prof. Sumathi Sethupathi, Universiti Tunku Abdul Rahman, Malaysia Prof. Florinda Figueiredo Martins, ISEP, Portugal			
Paper Details			

E069 11:15-11:30	<i>The Environmental and Economic Impact of Sharing Practices for Appliances for Flemish Households</i> Camille Steinik, Chiara Piccardo, Vincenzo Corrado Presenter: Prof. Camille Steinik , KU Leuven, Belgium
E130 11:30-11:45	<i>Assessing Circularity and Decarbonization Measures Impacts Implemented by A Table Glassware Industry Through Life Cycle Analysis</i> Ricardo M. Sendão, Helena I. Monteiro, Marta A. Azevedo, Rodrigo Serra, Nuno Tinoco, Marisa Almeida Presenter: Ricardo M. Sendão , ISQ, Portugal
E045 11:45-12:00	<i>Life Cycle Assessment of Energy Storage Systems for Maritime Transport: An Italian Case Study</i> Maria Leonor Carvalho, Maria Anna Cusenza, Paola Cristina Brambilla and Pierpaolo Girardi Presenter: Prof. Maria Leonor Carvalho , Ricerca sul Sistema Energetico - RSE S.p.A., Italy
E131 12:00-12:15	<i>Life Cycle Analysis of A Ceramic Paste for Ceramic Tableware Incorporating Ceramic Residues</i> Marta Azevedo, Helena Monteiro, Ricardo Sendão, Marisa Almeida, José Silva, Nazanin Sabet Presenter: Marta Azevedo , ISQ, Portugal
E118 12:15-12:30	<i>Harmonized Carbon Accounting of Electrical Equipment in Power Systems: A Framework Integrating EPD and CBAM Carbon Accounting Methodologies</i> Raquel Segurado Silva, Nuno Pinho da Silva, Isabel Alvite, Yang Cao, João Bernardo Marques, Li Yang, Nuno Souza E Silva, Jie Wen, Bo Miao and Chao Liu Presenter: Mr. Nuno Pinho da Silva , R&D Nester, Portugal

Oral Session 3

Modelling, Simulation and Forecasting of Energy and Carbon Markets

Time & Date

14:00-15:30 July 16th, 2026

Venue

ROOM A

Paper Details

E066 14:00-14:15	<i>Mutual Recognition of Electrical Equipment Carbon-Footprint Evidence under CBAM: Renewable Electricity Procurement and Carbon-Market Comparability in the EU and China</i> Raquel Segurado Silva, Nuno Pinho da Silva, Isabel Alvite, Yang Cao, João Bernardo Marques, Xia Chao, Nuno Souza e Silva, Jie Wen, Bo Miao, Chao Liu Presenter: Mrs. Raquel Segurado Silva , R&D Nester, Portugal
E078 14:15-14:30	<i>Real-Time Simulation and Emulation of Electric Loads Using Power-Hardware-In-The-Loop</i> Ricardo Morais, Pedro Faria and Zita Vale Presenter: Prof. Ricardo Morais , ISEP, Portugal
E089 14:30-14:45	<i>Effects of Feed-in Tariffs on Financial Performance of Small Hydropower Plants Connected to the Grid</i> Joseph H. Kihedu, Azaria N. Lwila Presenter: Prof. Joseph H. Kihedu , University of Dar es Salaam, Tanzania
E079 14:45-15:00	<i>Simulation Tool to Improve Electricity Distribution Network Voltage Analysis</i> Emanuel Bento, Pedro Faria and Zita Vale Presenter: Prof. Emanuel Bento , ISEP, Portugal
E102 15:00-15:15	<i>Week-Ahead Appliance Load Forecasting for Flexibility Quantification: EV Charging and Floor Heating</i> Rana Muhammad Arslan Qadar, Kristjan Peterson, Kamran Daniel, Lauri Kutt, Argo Rosin, Noman Shabbir Presenter: Mrs. Rana Muhammad Arslan Qadar , Tallinn University of Technology-Taltech, Estonia
E108 15:15-15:30	<i>A Modular Evaluation Framework for Energy Forecasting in Support of Sustainable Smart Grid Decision-Making</i> Bruna Costa, Luis Gomes, Zita Vale Presenter: Dr. Bruna Costa , ISEP, Portugal

Oral Session 4

Energy and Environment

Time & Date	14:00-15:30 July 16 th , 2026	Venue	ROOM B
Paper Details			
E062 14:00-14:15	<i>Assessing The Potential of Conventional Sanitary Landfill Leachate Treatment on Microplastic Removal</i> Zilva Karimah Azahra, Sumathi Sethupathi, Nurhanim bt Abdul Aziz, Fitri Khoerunnisa, Yamuna Munusamy Presenter: Sumathi Sethupathi , Universiti Tunku Abdul Rahman, Malaysia		
E051 14:15-14:30	<i>Exposure to Air Pollution and Spatial Disparities at Sensitive Locations in the Greater Region of Luxembourg</i> Hassan Kassem, Hichem Omrani Presenter: Dr. Hassan Kassem , Luxembourg Institute of Socio-Economic Research, Luxembourg		
E123 14:30-14:45	<i>Fuzzy Logic Evaluation on Urban Mobility Comfort Based on Energy and Noise Optimization for Private Vehicles</i> Rui Calejo Rodrigues Presenter: Dr. Rui Calejo Rodrigues , University of Porto, Portugal		
E031 14:45-15:00	<i>Stabilizing Multi-Metal(loid)s in Red Mud with Multi-Waste Amendments: Synergistic Mechanisms and Environmental Benefits</i> Jing Qiu, Jiemei Lv, Tianhao Yang, Qinfang Li, Yong Sik Ok, Erik Meers, Xiaolin Wang, Haichao Li Presenter: Assistant Prof. Jing Qiu , Guizhou Institute of Technology, China		
E117 15:00-15:15	<i>Development of an Exhaust Gas Test Section for Periodic Technical Inspection Emissions Measurements from Vehicles</i> João Adam, Luis Serrano, João Pereira, Helder Santos, Nuno Pires and Ricardo Almeida Presenter: Prof. Helder Santos , Polytechnic of Leiria, Portugal		
E097 15:15-15:30	<i>Comparative Assessment Analysis of Pressure-Driven Flow Systems in Poland and Portugal under Different Climatic Conditions</i> António Curado and Zuzanna Dzierżanowska Presenter: António Curado , proMetheus, Instituto Politécnico de Viana do Castelo, Portugal		

Oral Session 5

Energy Efficiency

Time & Date

16:00-17:30 July 16th, 2026

Venue

ROOM A

Session Chair: Prof. Nidia Caetano, ISEP, Portugal

Paper Details	
E080-A 16:00-16:15	<i>Thermal State of the BOF Vessel: Implications for Energy Efficiency and CO₂ Intensity in Steelmaking</i> Jose Diaz and Mario Rúa-Jimeno Presenter: José Díaz , ISEP, Portugal
E082 16:15-16:30	<i>Energy Efficiency Modeling and Analysis of An Industrial Radiant Tube Continuous Annealing Furnace</i> Ana López-Tamargo and Jose Diaz Presenter: Ana López Tamargo , University of Oviedo, Spain
E107 16:30-16:45	<i>GHG Emissions from Industry Energy Consumption</i> Florinda Figueiredo Martins Presenter: Dr. Florinda Figueiredo Martins , ISEP, Portugal
E037 16:45-17:00	<i>Electricity Use in Large Wastewater Treatment Plants in Slovakia: Current Status and Benchmarking Perspective</i> Igor Bodík, Tomáš Lukáč, Jakub Jurík, Lívia Švorcová, Filip Takács, Barbora Jankovičová Presenter: Barbora Jankovičová , Slovak University of Technology in Bratislava, Slovensko
E077 17:00-17:15	<i>Data-Driven Induction Motor Control for Real-World Power Profile Emulation</i> Rui Peres, Pedro Faria and Zita Vale Presenter: Associate Prof. Rui Peres , ISEP, Portugal
E059 17:15-17:30	<i>Extended Reality in Electrical Engineering Education: A Framework for Sustainable Institutional Adoption</i> David Kompan and Peter Janiga and Juraj Zeman and Miroslava Farkas Smitkova and Zaneta Eleshova Presenter: David Kompan , Slovak University of Technology in Bratislava, Slovensko

Oral Session 6

Energy Policy and Renewable Energy

Time & Date	16:00-17:30 July 16 th , 2026	Venue	ROOM B
Session Chair: Prof. Carlos Felgueiras, ISEP, Portugal Prof. Gilles Notton, University of Corsica Pasquale Paoli, France			
Paper Details			
E032 16:00-16:15	Energy Security and Growth: Lessons from Recent Energy Shocks in the EU Violeta Klyviene Presenter: Violeta Klyviene , ESM, Luxembourg		
E064 16:15-16:30	Artificial Intelligence for Strategic Management and Optimization of Energy Systems in Georgia Giorgi Morchiladze, Davit Narmania, Temur Tordinava Presenter: Giorgi Morchiladze , Ivane Javakhishvili Tbilisi State University, Georgia		
E039 16:30-16:45	Power-to-Heat in Poland: Conditions, Barriers and Development Pathways Komorowska Aleksandra, Kaszyński Przemysław, Surma Tomasz, Zamasz Krzysztof Presenter: Aleksandra Komorowska , Mineral and Energy Economy Research Institute of the Polish Academy of Sciences, Poland		
E025 16:45-17:00	Balancing Hydrocracking and Hydrodeoxygenation Pathways in Rapeseed Oil Hydroprocessing using Re-Promoted Ru Catalysts Ilze Malina, Kristaps Malins, Edite Visocka Presenter: Ilze Malina , Riga Technical University, Latvia		
E124 17:00-17:15	Recovery and Use of Landfill Gas: Challenges of A High-Quality Renewable Energy System in Luanda (Angola) Caetano Maria, José Góis, Anabela Leitão Presenter: JOSÉ GÓIS , University of Coimbra, Portugal		
E081 17:15-17:30	Comparative Analysis of PV Module Temperature Models under Tropical Weather Conditions Mississo GAYOVO, Eric CHATELET, Yendoubé LARE Presenter: Mississo GAYOVO , Université de technologie de Troyes, France		

Oral Flash

Time & Date

17:30-18:30 July 16th, 2026

Venue

ROOM A

Paper Details

E055 17:30-17:35	<i>Managing Energy Security and Decarbonization in Georgia: Strategy, Policy and Risk Approaches</i> D. Narmania, M. Kharkheli, E. Chokheli Presenter: Associate Prof. Manana Kharkheli , Ivane Javakhishvili Tbilisi State University, Georgia
E026 17:35-17:40	<i>Solvent-free Hydrotreatment of Polypropylene Pyrolysis Oil over SiO₂-Al₂O₃ Supported NiMo and Ru Catalysts for High Yield and Quality Solvent and Fuel Grade Saturated Hydrocarbon Production</i> Kristaps Malins, Ilze Malina, Sandra Stanionytė, Toms Valdemars Eiduks, Edite Visocka Presenter: Dr. Kristaps Malins , Riga Technical university, Latvia
E038 17:40-17:45	<i>Environmental Considerations in Airport Operation Centres: Insights from Stakeholder Interviews on Decision-Making Practices</i> Inbal Haas, Yves Günther, Jan Knichel, Oliver Pohling, Marcel Pulst Presenter: Dr. Inbal Haas , German Aerospace Center (DLR), Germany
E054 17:45-17:50	<i>Managing Renewable Energy Transition in Georgia: Quantitative Policy Modeling for Sustainable Energy Security</i> E. Chokheli, M. Makasarashvili, M. Kharkheli Presenter: Associate Prof. Eka Chokheli , Ivane Javakhishvili Tbilisi State University, Georgia
E057 17:50-17:55	<i>Serpentine Soil Ecosystems: A Mini-Review of Plant–Microbe Interactions in Heavy Metal Adaptation, Nutrient Cycling, and Biocontrol of Root-Knot Nematodes</i> Bing-Mu Hsu Presenter: Prof. Bing-Mu Hsu , National Chung Cheng University, Taiwan
E060 17:55-18:00	<i>Experimental Procedure for Mapping Velocity Magnitude Field in A Full Scale Test Room</i> G. Osswald, R. A. Rego, J. Miranda, F. A. Castro Presenter: Prof. Rui A. Rego , M4S, ISEP - P.Porto, Portugal

E087 18:00-18:05	<i>Daylight as the Primary Spatial Generator in Sustainable Housing: A Human-Centric Approach for Hot-Arid Climates</i> Lillian Issa Yousef Esau, and Erzsébet Szeréna ZOLTÁN Presenter: LILLIAN ISSA YOUSEF ESAU , University of Pécs, Hungary
E109 18:05-18:10	<i>Heating and Cooling Energy Needs of Residential Buildings According to Seasonal Method of ISO 13790 and Monthly Method of ISO 52016: The Case of Portugal</i> Isaías L. R. Gomes, Sérgio F. Tadeu Presenter: Dr. Isaías L. R. Gomes , ISQ - Instituto de Soldadura e Qualidade, Portugal
E112 18:10-18:15	<i>Prediction Model for Co-Pyrolysis Bio-oil Yield Using Machine Learning</i> Valeria Montes Urrego, Adel Merabet Presenter: Prof. Adel Merabet , Saint Mary's University, Canada
E114 18:15-18:20	<i>A Study Case on How Demand Response Events and Flexibility Affect the Daily Bill of a Datacenters</i> Rita Costa, Pedro Faria, Zita Vale Presenter: Rita Costa , ISQ - Instituto de Soldadura e Qualidade, Portugal
E116 18:20-18:25	<i>Local Electricity Markets in Europe: Market Architectures, Flexibility Mechanisms, and Deployment Challenges</i> Paulo Borges, Maria João Varanda Pereira, Ângela Ferreira Presenter: Paulo Borges , Instituto Politécnico de Bragança, Portugal
E119 18:25-18:30	<i>Optimizing Biomass Combustion for CO2 Capture: A Thermochemical Modelling Study</i> Luís Sousa, Tânia Ferreira, José Baranda Ribeiro, João Silva Pereira Presenter: Dr. Tânia Ferreira , ADAI, Portugal

Poster

Time & Date	10:30-11:15 July 16 th , 2026	Venue	Foyer
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Paper Details	
E070-A 001	<i>Market Feasibility of Second-Life Battery Replacement Services for Electric Vehicles: A Joint Pricing–Inventory Analysis</i> Saedaseul Moon, Taegu Kim Presenter: Assistant Prof. Saedaseul Moon, Kongju National University, South Korea
E008-A 002	<i>Assessment of the Deep Aquifer System in Jordan: A Strategic Water Resource for Alleviating Water Scarcity</i> Mohammad Alhyari, Armin Margane, Omed Alkurdi, Rebecca Bahls Presenter: Mr. Mohammad Alhyari, Omed Alkurdi, Ministry of Water and Irrigation (MWI) & Federal Institute for Geosciences and Natural Resources (BGR), Jordan
E015-A 003	<i>Extreme Weather Events and Energy System Resilience: Policy Lessons from Brazil</i> Leandro Maciel, Eduardo Kayo, Ítalo Monteiro, Alexandre Uhlig, João Cho, Raphaela Ferreira Presenter: Prof. Leandro Maciel, University of Sao Paulo, Brazil
E034-A 004	<i>Renewable Energy Policies in Central and Eastern Europe: Are They Perpetuating Energy Poverty?</i> Karpinska Lilia, Kłopecka Kornelia Presenter: Mrs. Kłopecka-Miętka Kornelia, Krakow University of Economics, Poland
E035-A 005	<i>Optimizing Biogas Plants in Italy via Hydrogen Production and Biomass Gasification</i> Fabrizio Rainone Presenter: Dr. Fabrizio Rainone, Energy Technologies and Processes Research Group, Italy
E040-A 006	<i>Heat Pricing of Waste-to-Energy Plants in Selected Polish Local District Heating Systems</i> Przemysław Kaszynski, Aleksandra Komorowska and Jacek Kaminski Presenter: Prof. Jacek Kaminski, Mineral and Energy Economy Research Institute of the Polish Academy of Sciences, Poland

E053-A 007	<i>Interactions between Pristine and Aged Microplastics and Nutrients in Aquatic Environments</i> Ula Rozman, Mark Starin, Gabriela Kalčikova Presenter: Dr. Ula Rozman, University of Ljubljana, Slovenia
E056-A 008	<i>Exploring Values around Nature-based Solutions: Driving Factors and Policy Implications</i> Hossu C.A., Mitincu C.G., Nita M.R., Calota M.A., Ioja I.C. Presenter: Dr. Constantina-Alina Hossu, CCMESI, Romania
E058 009	<i>Contribution of Asynchronous Motors to Short-Circuit Currents in a Three-Phase Power System</i> Kyrylo Seredenko, Zaneta Eleshova, David Kompan, Martin Duris, Lubomir Hasko Presenter: Miroslava Farkas Smitkova, Slovak University of Technology in Bratislava, Slovakia
E093 010	<i>Thermal Conductivity Behavior of CaCO₃ Added Sand-bentonite Mixtures under Different Temperatures</i> Esra Güneri Presenter: Assistant Prof. Esra Güneri, İzmir Democracy University, Turkey
E094-A 011	<i>Potential Impact of the REFEST Project on the Marine Environment</i> M. Rakowski, I. Psuty, K. Nadolna-Altyn, A. Mytlewski, V. Djačkov, all REFEST project Members Presenter: Dr. Rakowski M., Mytlewski A., Katarzyna Nadolna-Altyn, National Marine Fisheries Research Institute, Poland
E100-A 012	<i>Event-Aware Anomaly Detection and Near-Future Forecasting of Air Quality in the Port of Liverpool Using a Multi-Input-Multi-Output LSTM Autoencoder</i> Evan Nguyen, Qian Zhang, Anh Nguyen, Colm Bowe, Trung Thanh Nguyen Presenter: Mr. Evan Nguyen, Liverpool John Moores University, United Kingdom
E104-A 013	<i>Energy Transition and Offshore CO₂ Storage Hubs in Brazil: Regulatory and Socioeconomic Insights from the Merluza Field</i> Livia Koch Sposito, Mariana Ramos Ciotta, Edmilson Moutinho dos Santos Presenter: Mrs. Lívia Koch Sposito, University of São Paulo - USP, Brasil
E113 014	<i>Transition Today, Growth Tomorrow? Sectoral Evidence from Gross Value Added Across European Economies</i> Matilde Betencourt, José Alberto Fuinhas Presenter: Matilde Betencourt, University of Coimbra, Portugal

E134 015	<i>Retrofitting Natural Gas Piping Infrastructures for Natural Gas/Green Hydrogen Blends: Contribution to the Decarbonisation of the Ceramic and glassware Industry</i> Helena Monteiro, Maria João Franco, Ricardo Sendão, João Menício Presenter: Dr. Helena Monteiro, Institute for Welding and Quality, Portugal
E127-A 016	<i>The NOZ4CC project - A Cryogenic CO₂ Capture System Based on Direct Expansion in Nozzles</i> João Silva Pereira, José Baranda Ribeiro, António Gameiro Lopes Presenter: Dr. João Silva Pereira, Univ Coimbra, ADAI, Portugal
E098 017	<i>From Awareness to Action: University Students' Perceptions and Behaviors Toward Sustainability in the Fashion and Textile Industry</i> Ana Filipa Moreno, Pedro Rodrigues Ribeiro, Manuela Pintado and Patrícia Oliveira-Silva Presenter: Ana Filipa Moreno, Universidade Católica Portuguesa (UCP), Portugal
E099 018	<i>Bioaccumulation of Rhenium in Cystoseira barbata from the Eastern Adriatic Coast</i> Elvira Bura-Nakic, Marija Marguš, Ana Marija Cindrić, Dora Crmarić, Narda Stipanović and Dario Omanović Presenter: Elvira Bura-Nakić, Ruđer Bošković Institute, Croatia
E111 019	<i>Transparent Exopolymer Particles and Organic Matter Dynamics in Rogoznica Lake (Dragon Eye)</i> Marija Margus Presenter: Dr. Marija Marguš, Ruđer Bošković Institute, Croatia
E132 020	<i>Life Cycle Assessment of Biogas Produced from the Roots of Sunflower Used in Phytoremediation</i> Nidia Caetano Presenter: Prof. Nidia Caetano, ISEP, Portugal
E135 021	<i>Parametric Study of Outdoor Airflow Rate and Use of Masks in Healthcare Settings: Correlating Particle Concentration with Infection Risk</i> Muhammad Tayyab Waheed, John Omomoluwa Ogundiran, Manuel Gameiro da Silva Presenter: Muhammad Tayyab Waheed, University of Coimbra, Portugal
E043 022	<i>Experimental Investigation of the Gap Influence on the Electrical and Thermal Characteristics of Electroactive Polymer Plasma Actuators</i> Leonardo Mbanguine, José Páscoa, Frederico Rodrigues Presenter: Leonardo Mbanguine, University of Beira Interior, Portugal

E035-A 023	<i>Optimizing Biogas Plants in Italy via Hydrogen Production and Biomass Gasification</i> Fabrizio Rainone Presenter: Dr. Fabrizio Rainone , Energy Technologies and Processes Research Group, Italy
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