


## The 11th AIGE/IIETA International Conference and the 21st AIGE Conference on “Energy Conversion, Management, Recovery, Saving, Storage and Renewable Systems” will be held in Cagliari (Italy) on June 10–12, 2026.

From	To	Wednesday 10 - Aula Magna	Wednesday 10 - Aula Alfa	From	To	Thursday 11 - Aula Magna	Thursday 11 - Aula Alfa	From	To	Friday 12 - Aula Magna	Friday 12 - Aula Alfa
8:40	9:00			8:40	9:00			8:40	9:00		
	9:00				9:00	<b>Round Table 02</b>			9:00	9:20	
9:00	9:20			9:00	9:20	prof. Jasnuz Zysk (AGH University of Krakow)			9:20	9:40	<b>Smart homes, cities and communities</b>
9:20	9:40			9:20	9:40			9:20	9:40	<b>G. Mutani</b> - Assessing the impact of local climate conditions on the UBEM	<b>F. Busato</b> - Effect of the evolution of electricity emission factor in European countries...
9:40	10:00			9:40	10:00	<b>Territorial energy planning: growth opportunities and operational challenges</b>		9:40	10:00	<b>P.M. Congedo</b> - User composition as a design variable in Renewable Energy Communities (optimisation)	<b>R. Mercuri</b> - Dynamic TRNSYS model of AHU for fault detection (HVAC)
10:00	10:20			10:00	10:20			10:00	10:20	<b>M. Di Somma</b> - Multi-objective optimization of interconnected energy hubs with P2P trading	<b>L. Crincoli</b> - Experimental evaluation of mechanical ventilation strategies to reduce CO <sub>2</sub> levels in school classrooms
10:20	10:40			10:20	10:40	Moderator R. Ricciu		10:20	10:40	<b>R. Possidente</b> - Energy and economic analysis of a municipal investment for starting a renewable energy community	<b>A. Palmieri</b> - Optimisation of consumption profiles to maximise energy sharing in a Renewable Energy Community
10:40	11:00			10:40	11:00	<b>Coffee break</b>		10:40	11:00	<b>Coffee break</b>	
	11:00				11:00	<b>Innovation and sustainability in territorial energy management</b>	<b>Energy modeling and prediction</b>		11:00	<b>Energy planning and energy management</b>	<b>Energy Analysis</b>
11:00	11:20			11:00	11:20	<b>N. Salameh</b> - Multi-layer framework for biomass resource assessment and sustainability (RSE)	<b>J.C. Rondon</b> - Development of an integrated open-source framework for automated CFD simulation of Savonius VAWT	11:00	11:20	<b>L. Migliari</b> - Industrial decarbonization in hard-to-abate sectors: a real-world case study	<b>A. Serpi</b> - The NEPTUNE project: all-electric propulsion system for tugboats
11:20	11:40			11:20	11:40	<b>M. Barbanera</b> - Mapping residual biomass and assessing low-carbon hydrogen pathways in Sardinia	<b>CC. Mastino</b> - Energy Efficiency: Open BIM and Digital Twin-Based Management	11:20	11:40	<b>G. Currao</b> - Cross-sectoral validation of power-to-hydrogen from PV surplus	<b>S. Calò</b> - Cement-less CRM composite for sustainable retrofitting of buildings
11:40	12:00			11:40	12:00	<b>C. Masala</b> - Sardinian biomasses valorization through gasification	<b>M. Falone</b> - A stabilized intermittency transport equation for SA-based transition modeling in wind turbine airfoils	11:40	12:00	<b>M. Baia</b> - From raw data to urban morphology: ML framework for MRT maps	<b>T.P.E. Randazzo</b> - Thermochemical energy storage for renewable integration (real-scale reactor)
12:00	12:20			12:00	12:20	<b>A. Di Meglio</b> - Energy transition pathways for port operations (Naples case study)	<b>C. Cella</b> - The Development Of A Post Processing Procedure For Melted Glass Quality Prediction From Multidisciplinary Numerical Simulations	12:00	12:20		<b>K. Hurmat</b> - Thermal performance of PCM with/without fins (TES system)
12:20	12:40			12:20	12:40		<b>B. Sommariva</b> - Effect of combustion parameters on flame development in glass furnaces	12:20	12:40	<b>Certificates of Merit Ceremony</b>	
12:40	13:00			12:40	13:00	<b>POSTER presentation</b>		12:40	13:00		
	13:00				13:00				13:00		
13:00	13:20			13:00	13:20	<b>Buffet lunch</b>		13:00	13:20	<b>Farewell aperitif</b>	
13:20	13:40			13:20	13:40			13:20	13:40		
13:40	14:00			13:40	14:00			13:40	14:00		
14:00	14:20			14:00	14:20	<b>SPONSOR</b>		14:00	14:20		
14:20	14:40	<b>Institutional Greetings</b>		14:20	14:40	<b>Innovation and sustainability in territorial energy management</b>	<b>Materials in energy</b>	14:20	14:40	<b>POSTER</b>	
14:40	15:00			14:20	14:40	<b>G. Di Foggia</b> - Local value and the energy transition: role of biomethane (Sardinia)	<b>F. Focacci</b> - Shear strengthening of masonry panels with sustainable basalt-composite materials with thermal insulation matrix	14:20	14:40	<b>O. Manca</b> - Numerical study on thermoelectric generator for automotive exhaust (metal foam)	
15:00	15:20	<b>Round Table 01</b>		14:40	15:00	<b>S. Alviani</b> - Role of residual biomass in Sardinia's energy transition (EnergyPLAN scenarios)	<b>ML. Puppino</b> - Composite materials with thermal matrix for strengthening masonry buildings	14:40	15:00	<b>A. Marchitto</b> - Convoy thermal energy without energy consumption	
15:00	15:20	Prof. Michele De Carli (Università di Padova)		15:00	15:20	<b>D. J. Vargas</b> - Pulsating heat pipe-based battery thermal management for electric aircraft	<b>M. Piga</b> - Building energy retrofitting: Mix design, physical-mechanical characterization ...	15:00	15:20	<b>R. Schiasselloni</b> - A reduced-order model of a channel-based PCM heat exchanger for waste heat recovery	
15:20	15:40	<b>Urban Building Energy Models: results from research, potential policy strategies and didactic activities</b>		15:20	15:40	<b>P.L.M. Buonomo</b> - Study on the Optimisation of a Regional Energy System using the VEDA-TIMES Modelling Framework	<b>A. Majumder</b> - Thermal performance of natural fiber TRM retrofitted masonry wall	15:20	15:40	<b>H. Salhab</b> - Dynamic energy simulation of a recycled bio-based insulation panel	
15:40	16:00	Moderator CCM		15:40	16:00			15:40	16:00	<b>M. Pesapane</b> - High accuracy measurement of thermal emittance of solar absorbers	
16:00	16:20			16:00	16:20	<b>Coffee break</b>		16:00	16:20	<b>A.Q. Khoso</b> - Predictive thermal analytics of impinging jets using ML	
16:20	16:40	<b>Renewable energies and alternative energy systems</b>	<b>Heat transfer in energetic and environmental systems</b>	16:20	16:40	<b>Energy modeling and prediction</b>	<b>Economic and policy issues</b>	16:00	16:20		
16:20	16:40	<b>M. Noro</b> - Optimization of road solar thermal collectors	<b>L. Fusco</b> - Thermodynamic Performance Assessment Of Voorhees Transcritical CO <sub>2</sub> Cycles Against Standard Configurations For Refrigeration Applications	16:20	16:40	<b>G. Mutani</b> - Role of UBEM in urban heat island analysis	<b>M. Piga</b> - Retrofitting of RC pilotis buildings (structural, energy, social)	16:20	16:40		
16:40	17:00	<b>I. Bruno</b> - How uncertain are bifacial PV energy predictions?	<b>L. Soggi</b> - A General Methodology For The Evaluation Of Data Centre Waste Heat Recovery Solutions In Building Heating Applications	16:40	17:00	<b>D. Marsano</b> - Numerical simulation of CO <sub>2</sub> -diluted oxy-fuel combustion for P2G/G2P...	<b>M. Sassu</b> - Atmospheric corrosion sensor for roofs (ACRI system)	16:40	17:00	<b>Sponsor AIGE 2026</b>	
17:00	17:20	<b>R. Baccoli</b> - Two-stage thermoacoustic electric generator for waste heat recovery	<b>L. Cattani</b> - Oscillation Frequency Analysis Of A Single-Loop Pulsating Heat Pipe With Opteon SF33 For Compact Electronics And Battery Cooling	17:00	17:20	<b>A. Gagliano</b> - Modelling of downward long-wave radiation using ANN	<b>V. Baiocco</b> - Short-term impacts of carbon pricing policies in Italy (ETS)	17:00	17:20		
17:20	17:40	<b>A. Cristaudo</b> - A novel simulation based Polynomial correlation for optimal tilt angle of bifacial PV systems	<b>A. Linari</b> - Thermodynamic Simulation And Energy Consumption Forecasting Of Transcritical CO <sub>2</sub> Refrigeration Systems In Retail Applications	17:20	17:40	<b>AIGE General Assembly</b>		17:20	17:40		
17:40	18:00	<b>S. Anelli</b> - Analysis of the performance of an innovative DEC plant		17:40	18:00			17:40	18:00		
18:00	18:20			18:00	18:20			18:00	18:20		
18:20	18:40			18:20	18:40			18:20	18:40		
18:40	19:00			18:40	19:00			18:40	19:00		
19:00	19:20	<b>Welcome aperitif</b>		19:00	19:20	<b>Bus departure</b>		19:00	19:20		
19:20	19:40			19:20	19:40			19:20	19:40		
19:40	20:00			19:40	20:00			19:40	20:00		
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20:20	20:40			20:20	20:40			20:20	20:40		
20:40	21:00			20:40	21:00	<b>Gala dinner</b>		20:40	21:00		



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