

C-3Türkiye T1 Session Information			
10:00-10:10	National Anthem and Moment of Silence		
10:10-10:20	Opening Address: Prof. Dr. Feriha Erfan KuyumcuRector of Istanbul Gedik University		
10:20-10:30	Welcome Address: Asst. Prof. Dr. Utku Canci MaturDirector of ETARC & Conference Chair of ETSC26		
10:30-11:00	<p>Invited Talk:</p> <p>"Energy Transition, Sustainability and the Social Future in the Age of Artificial Intelligence"</p> <p>Tayfun İşbilen, Head of Information Technology Department, ISKI</p>  <p>Keynote Speaker</p> <p>Tayfun İŞBİLEN Head of Information Technology Department, ISKI</p> 		
11:00-12:00	<p>Presentation Session 01 : Main Hall</p> <p>Moderator: Asst. Prof. Dr. Meltem Kasapoğlu Çalık, Director of Gedik Vocational School & Conference Chair of ETSC26</p> <p>ID:111, "Energy Efficiency and Sustainability in Pneumatics" Efehan Şeşen</p> <p>ID:101 "Silicon Nanowire/Borophene Composite Gas Sensor for VOC Detection" Gülşen Baytemir, Gözde Konuk Ege, Özge Akay</p> <p>ID:30, "Learning Integrated School Model: Impacts of ISO 14001-9001-45001 on School Culture, Student Behavior and Sustainable Educational Governance" Nuray Eran Türeli, Muhsin Köse, Suzan Çiner</p> <p>ID:114, "Development of a Current Model for the Türkiye Reference Energy System" Ceren Aydın, Egemen Sulukan</p>	<p>Presentation Session 02 : Green Hall</p> <p>Moderator: Asst. Prof. Dr. Enda Tolon, Director of Sustainability Office, Istanbul Gedik University</p> <p>ID:45, "The Impact of Climate Change on the Black Sea Ecosystem: Artificial Intelligence-Supported Analysis of the Relationship Between Sea Surface Temperature and Chlorophyll-a" Arda Burak Selek, Cansu Tüysüz, Ali Köse</p> <p>ID:44, "A Systematic Review and Bibliometric Analysis of Performance Factors in EEG-Based Brain-Computer Interfaces" İlkyay Yıldız, Ali Köse, Gözde Konuk Ege</p> <p>ID: 87, "Machine Learning-Based Performance Prediction of Solid Oxide Fuel Cells Using Support Vector Regression with Radial Basis Function Kernel" Uğur Özveren, Sıhralı Çarharyyeva</p> <p>ID:96, "Prediction of Syngas Composition from Updraft Biomass Gasification Using XGBoost" Uğur Özveren, Dicle</p>	<p>Presentation Session 03 : Blue Hall</p> <p>Moderator: Asst. Prof. Dr. Tuğçe Sena Altıntaş, Head of Electrical and Energy Department, Gedik Vocational School</p> <p>ID:71, "Theoretical Investigation on Reducing Carbon Emissions in Combi Boilers:The Potential of Quicklime Filtration" Eylül Selçuk, Rahşan Özüpek, Aytaç Uğur Yerden</p> <p>ID:68, "Machine Learning-Based Smart Agriculture System" , Yusuf İslam Budak, Ardacan Bayсал, Kaan Özdemir, Aytaç Uğur Yerden</p> <p>ID:95, "Process Automation with a Corporate AI Assistant: Productivity and Sustainability Impacts of the Buddy Implementation" Caner Boyraz</p> <p>ID:20, "Sustainable Risk Analysis Applications with Data-Driven and Resource-Efficient Artificial Intelligence in Renewable Energy Systems" Tuğçe Sena Altıntaş, Begüm Erten</p>
12:00-13:00	Lunch Break		
13:00-14:15	<p>Panel: "Current Applications in Energy Technologies in the Word and Türkiye"</p>  <p>International Energy Transition and Sustainability Conference (ETSC26)</p> <p>"Current Applications in Energy Technologies in the World and Türkiye"</p> <p>Moderator: Asst. Prof. Utku CANGI MATUR, Director of Istanbul Gedik University Energy Technologies Application and Research Center (IGUN ETARC) Mechantronics Program</p> <p>Panelist: Dr. Çiğdem GÜNDOĞAN, General Manager of Net Döndürcü</p> <p>Panelist: Gökçe ÇÖKMEZ, Tuzla Municipality Climate Change and Zero Waste Manager</p> <p>Panelist: Emre TEMEL, Siemens eMobility Service Coordinator</p> <p>Panelist: Asst. Prof. Dr. Mert TOLON, Mülkiye University Vice Dean of Faculty of Engineering and Natural Sciences Sustainability Office Coordinator</p>		
14:15-14:45	<p>Invited Talk:</p> <p>"Innovations Needed for More Effective Renewable Energy Integration, European Union Missions 2030, The Role of Local Governments, Civil Society Organizations, Industry Associations, and Universities"</p> <p>Prof.Dr.Tanay Sıdkı Uyar, Eurosolar Türkiye</p>  <p>Keynote Speaker</p> <p>Prof. Dr. Tanay Sıdkı UYAR Eurosolar Türkiye</p> 		
14:45-15:00	Cofis Break		
15:00-16:00	<p>Presentation Session 04 : Main Hall</p> <p>Moderator: Prof. Dr. Egemen Sulukan, Dean of the Faculty of Engineering, Istanbul Gedik University & Honorary President of ETSC26</p> <p>ID:88, "Thermal Degradation Kinetics of Hazelnut Shell Biomass Based on TGA/DTG and Starink Analysis" Dicle Eren, Uğur Özveren</p> <p>ID:4, "Exploring BaAB₃ Perovskites for Spintronics: A First-Principles Approach to Their Structural and Functional Properties" Saadiya Benatname, Zineb Fares</p> <p>ID:2, "Ab-Initio Study of Physical Properties and Defect Effects in Alkaline Earth Intermetallic Compounds" Saadiya Benatname, Zineb Fares</p> <p>ID:72, "The Role of Local Governments in the Field of Renewable Energy: An Example of Gaziantep Metropolitan Municipality" Zeynep Ural</p>	<p>Presentation Session 05 : Green Hall</p> <p>Moderator: Asst. Prof. Dr. Seda Müftüoğlu, Head of Design Department, Gedik Vocational School</p> <p>ID:43, "The Role of Designers in Shaping Circular Design Frameworks For a Sustainable Future" Pınar Aslanbay, Seza Sınanlar Uslu</p> <p>ID:77, "Development of a Knee-Controlled Bionic Lower Limb Prosthesis with A Novel Control Algorithm" Burak Kaan Durukan, Eliz Sakallıoğlu, Mücahit Ege</p> <p>ID:93, "The Problem of Schematic Accuracy in the Visual Representation of Sustainable Energy Systems: A Comparative Analysis of Solar and Wind Energy" Sonat Tanyel</p> <p>ID:63, "Minimalist Packaging Design: Sustainability-Focused Material and Design Decision" Seda Müftüoğlu, Uğur Müftüoğlu</p>	<p>Presentation Session 06 : Blue Hall</p> <p>Moderator: Asst. Prof. Dr. Esra İşbilen Duru, Head of Finance, Banking and Insurance Department, Gedik Vocational School</p> <p>ID:46, "Data-Driven Analysis of the Physicochemical Properties of Phosphoramid-Benzozazole Compounds Using a Machine Learning Approach" Yusuf Özdemir, Fatma Ceren Kırmızıtaş, Ali Köse</p> <p>ID121, "Evaluation Of Türkiye's Energy System In Line With Energy Transition And Sustainability Targets" Ceren Aydın</p> <p>ID:54, "Qualitative Investigation into the Impact of Sustainability Activities of Publicly Traded Professional Sports Clubs on University Students Perceptions of Corporate Reputation: The Case of Istanbul Gedik University" Esra İşbilen Duru, Havva Aydoğan</p>
16:00-17:00	<p>Presentation Session 07 : Main Hall</p> <p>Moderator: Assoc. Prof. Dr. İzzet Paruğ Duru, Head of the Department of Medical Services and Techniques, Gedik Vocational School</p> <p>ID:32, "Structural, Optical and Electrical Investigation of Sn and Cu Doped ZnO Thin Films Prepared by Sol-Gel Method" Cansu Tüysüz, Utku Canci Matur, Ali Köse, Doğan Akcan</p> <p>ID:90, "Assessment of Smart Grid Stability with LightGBM and Decentralized Control Modeling" Uğur Özveren, Sıhralı Çarharyyeva</p> <p>ID: 89, "Support Vector Regression-Based Prediction of Syngas Composition from Biomass Downdraft Gasification" Dicle Eren, Uğur Özveren</p> <p>ID:94, "XGBoost Machine Learning Approach for Proton Exchange Membrane Fuel Cell Performance Prediction" Uğur Özveren, Sıhralı Çarharyyeva, Tuğçe Diricani</p>	<p>Presentation Session 08 : Green Hall</p> <p>Moderator: Asst. Prof. Dr. Gözde Konuk Ege, Head of the Department of Electronics and Automation, Gedik Vocational School & Co-Chair of ETSC26</p> <p>ID:91, "Digital Twin-Based Predictive Maintenance: A Comparative Analysis with Other Maintenance Approaches" Faruk Açralı</p> <p>ID:110, "The Use of Deep Learning Algorithms in Industry: A Bibliometric Evaluation" Elif Boz, Hilal Öztemel, Ali Köse</p> <p>ID:23, "Recycled Metal Utilization on the Microstructure and Mechanical Properties of Casting Alloys" Doruk Gürkan</p> <p>ID: 40, "The Effect of Material Selection in Micro UAVs on Structural Behavior under Different Force Conditions" Çağan Arca Özen, Ali Köse, Gözde Konuk Ege</p>	<p>Presentation Session 09 : Blue Hall</p> <p>Moderator: Assoc. Prof. Dr. Polat Topuz, Head of the Department of Machinery and Metal Technologies, Gedik Vocational School</p> <p>ID: 86, "A New Motion Intention Recognition Method Using IMU Sensor Data" Mücahit Ege, Mustafa Kurulbal, Süde Biber</p> <p>ID:31, "A Physics-Informed and Prescriptive XAI Framework for Electrical Grid Stability" Nilgün Eftalya Akgül</p> <p>ID:12, "Sustainable Composite Material Development: Recycled Carbon Fiber and Pine Needle-Based Hybrid Structure" Polat Topuz, Meltem Kasapoğlu Çalık</p>
17:00-18:00	<p>Presentation Session 10 : Main Hall</p> <p>Moderator: Assoc. Prof. Dr. Redvan Ghasemloumia, Director of the Institute, Istanbul Gedik University & Conference Co-Chair of ETSC26</p> <p>ID:17, "Stackelberg Game-Driven Energy Coordination of Offshore Amusement Parks with Green-Blue Hydrogen and Carbon Capture Integration" Hossein Shayeghi, Feyman Zare, Babak Mohammadi, Nicu Bizon</p> <p>ID:22, "Renewable Solar Energy Source; A Solution to Epileptic Power Supply in Mubi" Ali Danladi</p> <p>ID:41, "Sustainable Energy: Pathways to a Resilient and Decarbonized Future" , Bateganya Alex, Kaitesi Praise, Oyo Wambetta</p> <p>ID: 51, "Intelligent Image Processing-Based Recognition System for Color-Coded Zero Waste Separation Units" Enes Buğra Elioğlu, Ali Köse, Gözde Konuk Ege</p>	<p>Presentation Session 11 : Green Hall</p> <p>Moderator: Asst. Prof. Dr. Begüm Erten Mahmutoğlu, Department of Occupational Health and Safety Program, Istanbul Gedik University & Member of the Board of Directors of the ETARC</p> <p>ID:79, "A Specialized K-Means Framework for Identifying Characteristic Energy Community Operation Scenarios Considering Distributed Generation from PV, Residential Consumption, EV Charging, Real-time Prices, and Grid Carbon Intensity" İlyas Arslanoğlu, Mustafa Alparslan Zehir</p> <p>ID:81, " Autonomous Coastal Waste Detection and Localization Using UAV" Eyüp Koyun, Berke Akdoğan, Nur Hazal Çufalı, Aytaç Uğur Yerden</p> <p>ID:107, "Data-Driven Analysis and Bibliometric Review of Sustainable Diet Approaches" İke Aycan Yıldız, Derya Avan Çinar, Ali Köse</p> <p>ID:21, "Risks and Preventive Approaches Focused on Occupational Health and Safety in Renewable Energy</p>	<p>Presentation Session 12 : Blue Hall</p> <p>Moderator: Asst. Prof. Dr. İrem Altan Aksu, Department of Child Care and Youth Services Department Chair, Gedik Vocational School</p> <p>ID:108, "Bibliometric Analysis of Inefficiencies in Digital Twin Based Smart Factory Management" Melike Zümra Özen, Gülçin Yıldırım, Ali Köse</p> <p>ID:113, "An Examination of Preschool Teacher Competencies Across Different Regions of the World" Fatma Şükran Kaplan</p> <p>ID:119, "Inclusivity in Sustainable Development: Focusing on Preschool Children" İrem Altan Aksu</p>