	IEEES-15 (International Exergy Energy and Environment Symposium, Istanbul Atlas University, Istanbul) Program (Istanbul Time GMT +3)									
(GMT+3) Istanbul Time+		IEEES-15 December 19, 2024 Istanbul Adlas University Vadi Campus (Program Presenter - Sahver Omeraki Cekirdekci)								
08:30- 10:00	Registration		Athority: Busra Gunay - Meryem Serttasoglu - Zeynep Bircan Bagdatli							
08:30- 10:00				Registeration and welcome cocktail  Opening Speeches of IEEE-15						
	Opening Speeches of IEEES-15 Istanbul Atlas University Vadi Campus Dr Ralph A. DeFronzo Auditorium (Program Presentr - Sabver Omeraki Cekirdekci)									
	10:00-10:10			Prof.Dr. Zafer Utu (Symposium Chair)						
10.00 - 10:20	10:10-10:15			Prof.D	r. Ersoy Kocabicak (Rector of Istanbul Atlas Univer	rsity)				
	10:15-10:20			Prof.Dr. Ibrahim Dincer (Foundation Chair)  Openine Show						
10	0:20- 10:40			Opening Show Performance: Ece Ata						
		KEYNOTE SPEAKER  Poof Dr. Hendrin Disease								
10:40 - 12:00	10:40-11:20	Prof.Dr. Turahim Dincer "The Role of Exergy in University Education, Engineering, Innovation and Technology as well as Energy Solutions" Prof.Dr. Hussam Jouhara								
12:00-	11:20-12:00	rrol.Dr. tussam Jounara "Advances in the Utilisation of the Heat Pipe Technology in Industrial and Renewable Energy Applications"  Coffee Break								
12:15										
		Room: Tesla-1			Room: Tesla-2		Room: Harezmî-I			
		Session Chair: Rajesh Kumar		Energy Efficient Materials-1	Session Chair: Recep Duranay		Low Carbon Buildings, Policies and Management-1	Session Chair: Meliha Burcu Irmak Yazıcıoglu		
	Sustainability	#18 Eco-friendly Synthesis of TiO2 Nanoparticles from an Algerian Plant: Photocatalytic Efficiency in Methylene Blue Removal: Nadia CHEKIR, Medina MEHENAOUI, Yasmina Anika HAFSA, Djilali TASSALIT, Oussila BELHABILES, Hacina ABCHICHE	12:15 - 13:15		#12 Enhancing the Performance and Stability of Triple Cation Perovskite Solar Cells with PEDOT: PSS in Ambient Conditions: Samia Belhousse, Fatma Zohra Tighilt			#30 Development and Assessment of a Net Zero District Energy System with Thermal Energy Storage for Residential Applications: Azzam Abu- Rayash		
12:15- 13:15		#113 Design of a Solar-Driven Peltier-Based Atmospheric Water Generation System: Parisa Heidarnejad, Egemen Sulukan, Abdullah Dedecan, Ali Kose, Purkan Yildirim, Hadi Genceli			#19 Performance enhancement of green fluorescent OLEDs: Abdelkader Aissat (online)	12:15- 13:15		#14 To Manage shipping emissions with hydrogen supplement for container ships: Mehmet Ziya Sogut		
		#27 Life Cycle Assessment of an Integrated Hydrogen Reactor: Hilal AKCI, Ibrahim DINCER (online)			#20 Unique cathodic electrode deposit with catalyst for effective hydrogen production in an alkaline electrolysis cell: Aysegul Goren, Mert Temiz, Ibrahim Dincer (online)			#16 Corporation Framework of Energy Efficiency Management for SMEs: Mehmet Ziya Sogut		
		#49 Treatment Efficiency and Hydrogen Production of Pharmaceutical Wastewater Using Photo- electrocatalytic Oxidation Process and System Optimization with Response Surface Methodology: Ayse ATES, Sinan ATES, Yusuf BİÇER			#42 Photocatalytic degradation of cefuroxime using synthesised semi-conductor: Mohamed Belmedani, Asma Hemmi, Elhadi Mekatel			#99 Evaluating HVAC System Performance and Indoor Air Quality in University Buildings: Birce Ongun Bakan, Nurdan YILDIRIM, Hacer Oztura (online)		
13:15- 14:30					Lunch					
14:30-					KEYNOTE SPEAKER Prof.Dr. Feridun Hamdullahpur					
15:10		Room: Tesla-1	"Insight	s and Innovations	:: Exploring the Horizons of Green Ammonia Produ Room: Tesla-2	ction and	Applications"	Room: Harezmî-1		
		Session Chair: Tugba Akkas Boynuegri			Session Chair: Ozum Calli			Session Chair: Mehmet Ziya Sogut		
		Session Chair: Tugba Akkas Boynuegri #34 Turkey's Energy Future: Energy Storage Development: Mine SERTSÖZ (online)			Session Chair: Ozum Calli  #24 Development of Correlational Equations for Flash Point Prediction of Pure Hydrocarbons and Biodiesel-Diesel Fuel Blends: Mert Gülüm (Online)			Session Chair: Mehmet Ziya Sogut  #13 Techno-economic Analysis of Replacing Diesel Power Generators with Natural Cas one along with Hybrid grid connected Rooftop Solar Photo Voltaic in residential apartments: Manjunath K		
15:15	Energy Storage and	#34 Turkey's Energy Future: Energy Storage	15:15 -	Energy and Exergy Analysis	#24 Development of Correlational Equations for Flash Point Prediction of Pure Hydrocarbons and	15:15 -	Renewable Energy	#13 Techno-economic Analysis of Replacing Diesel Power Generators with Natural Gas one along with Hybrid grid connected Rooftop Solar Photo Voltaic in residential apartments:		
15:15 - 16:30	Energy Storage and Conversion-1	#34 Turkey's Energy Future: Energy Storage Development: Mine SERTSÖZ (online)  #47 MWCNTs growth and low-carbon H2 synthesis in the catalytic CH4 decomposition reaction: Tugba	15:15 - 16:30	Energy and Exergy Analysis I	#24 Development of Correlational Equations for Flash Point Prediction of Pure Hydrocarbons and Biodiesel-Diesel Fuel Blends: Mert Gülüm (Online) #21 Temperature and indium composition effect on the intersubband absorption in InGan/Gan	15:15 - 16:30	Renewable Energy Technologies-1	#13 Techno-economic Analysis of Replacing Diesel Power Generators with Natural Gas one along with Hybrid grid connected Rooftop Solar Photo Voltaic in residential apartments: Manjunath K  #15 Entropy-Based Environmental Analysis of Low Charge Multi-Compressor Commercial		
-	Storage and	#34 Turkey's Energy Future: Energy Storage Development: Mine SERTSÖZ (online)  #47 MWCNTs growth and low-carbon H2 synthesis in the catalytic CH4 decomposition reaction: Tugba Akkas Boynnegri, John Ivrine, Cristian Savaniu  #63 Hydrogen production by utilising the waste heat of kashar cheses production plant: A Comprehensive Case study with Exergoeconomic Analysis: Talk Ruskenes, Sadda Ku, Mehmet Aksoy.		Exergy Analysis-	#24 Development of Correlational Equations for Flash Point Prediction of Pure Hydrocarbons and Biodicsel-Diesel Fuel Blends: Mex Gullam (Online) #21 Temperature and indium composition effect on the intersubband absorption in InGaN/GaN QW structure: Abdelkader Aissat (online) #25 A solar-powered trigeneration system producing hydrogen for vehicle use in a self- sustaining community; an exergoeconomic assessment and optimization: Ugu Akbulu, Faizan		Energy	#13 Techno-economic Analysis of Replacing Diesel Power Generators with Natural Gas one along with Hybrid grid connected Rooftop Solar Photo Voltaic in residential apartments: Manjunath K #15 Entropy-Based Environmental Analysis of Low Charge Multi-Compressor Commercial Cooling Systems: Mehmet Ziya Sogut #17 Thermal management of concentrated photovoltaics using minichannel heat sinks:		
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16:30 16:30-16:45	Storage and Conversion-1	#34 Turkey's Energy Future: Energy Storage Development: Mine SERTSÖZ (colline)  #47 MWCNTs growth and low-carbon H2 synthesis in the catalytic CH4 decomposition reaction: Tugba Akkas Boynuegri, John Irvine, Cristian Savaniu  #63 Hydrogen production by utilising the waste heat of kashar cheese production plant: A Comprehensive Case study with Exergeoconomic Analysis: Taha Kusakesen, Sadik Ata, Mchmet Aksoy, Ali Kahraman  #73 Performance augmentation of Heat Storage Unit By Thermally Conductive Partitions: Rajesh Kumar, Jayesh Kumar  #22 Investigation on the reduction of carbon dioxide emissions and water reclamation using malt sprout  #22 Investigation on the reduction of carbon dioxide emissions and water reclamation using malt sprout  #21 Investigation on the reduction of carbon dioxide emissions and water reclamation using malt sprout  #22 Investigation on the reduction of carbon dioxide emissions and water reclamation using malt sprout  #23 Investigation on the reduction of the wasteheat recovery in natural gas pressurization plant: Arif Karabaga, Elif Sulana, Aydin, Sofya Morozova, Behiye Yuksel, Zafet Uh  #38 Forecasting Solar FV Production in Turkey's Mediterranean Region Using Machine Learning Models: Adallah Adil Awad Bashir, Afsin Gungfor (online)  #84 Investigation of Condensation Heat Transfer Characteristics in Different Pipe Types Using	16:30	Exergy Analysis  Energy and Exergy Analysis	### ### ### ### ### ### ### ### ### ##	16:30	Energy Technologies-1	#13 Techno-economic Analysis of Replacing Diesel Power Generators with Natural Gas one along with Hybrid grid connected Rooftop Solar Photo Voltaic in residential apartments: Manjanath K #15 Entropy-Based Environmental Analysis of Low Charge Multi-Compressor Commercial Cooling Systems: Mehmet Ziya Sogut  #17 Thermal management of concentrated photovoltaics using minichannel heat sinks: Muhammad Usman Sajid, Yusuf Bicer  #23 Chemical stability and electrochemical activity (sustainability) of Xenon Diffnoride and Zirconlimu carbide (Za-C) for energy storage:  #24 Simulation-Driven Optimization of a Low- Carbon Fuel Production Process: A Comprehensive Decarbonization Strategy for Industrial Furnaces: Abdulkarem Amhamed, Kim Romfiane  Room: Harezmi-1  #28 Effect of sinter cooler air cooler outlet temperature on steam production performance: Seyma Ulukaya, Kubilay Bayramoğlu (online)  #50 Treatment of Petroleum Refinery Wastewater by Activated Carbon produced from date's wastes: Zolara Sadaoui, Ouiza Allalou, Noreddine Boudechiche  #52 Supply Chain Resilience Assessment Based on Risk Management for Sustainable Aviation Fuel:		

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		KEYNOTE SPEAKERS								
	09:30-10:10				Prof. Dr. Yunus Çengel					
09.30 - 10:50	10:10-10:50			"(	Prof.Dr. Ram Gupta Clean Energy for a Growing and Prospering World					
10:50-11:00		Room: Tesla-1			Coffee Break  Room: Tesla-2			Room: Harezmî-1		
							Energy Efficient Materials-2			
	Renewable Energy Technologies-2	Session Chair: Muhammet ABDELATI	r	Energy and Exergy Analysis-3	Session Chair: Seda Karateke			Session Chair: Nurdan Güven Toker		
		#32 4-E Assessment of a Cement Clinker Cooler Integrated Poly-Generation Cycle to Produce Power, Cooling, Hydrogen, and Freshwater: Faizan Khalid, Mohammad Uzair, Ugur Akbulut, Safia Akhtar Kazmi, Sunduz Kuk Akcair (online)			#41 Comparison of the Effects of Using Biodiesel, Hydrogen and Kerosene on the Performance of an UAV Turbojet Engine: Cem Yücer, Yavuz Nacaklı			#46 Iron Doped Magnesium Chromite Spinel Coating to Diminish Chromium Poisoning in the SOFC Cathode Environment: Huseyin Unsal, Cristian Savaniu, John T.S. Irvine		
11:00 - 12:00		#33 Anancrobic co-digestion of brewery wastewater and malt sprout derived biochar for the enhanced biohydrogen production: Pelin Yapıcıoğlu (online)			#53 Printed Heaters: An Alternative Heat Exchanger for Blood Oxygenators: Rehmat Ullah, Khalid Rahman, Syed Naqvi, Hafiz Rizwan, Taqi Ahmed Cheema	11:00 - 12:00		#51 Developmentof an Offshore Wind Power Plant in Türkiye: A Case Study: Tolga Yüksel, Ahmet Yılancı (online)		
		#39 An Experimental Investigation of Hydrogen Production from Hydrogen Sulfide Sources: Muhammad Ishaq, Ibrahim Dincer (online)			#54 Thermodynamic Analysis of a Photovoltaic Power Plant: A Case Study in Sivas, Turkey: Ufuk Güner, Tolga Cankurt, Seyed Hamed Pour Rahmati Khalejan			#68 Investigating the electrocatalytic activity of zirconia-doped manganese selenide nanoparticles for OER/HER in an alkaline medium: Shoukat Alim Khan, Tauseef Munawar, Faisal Iqbal, Muammer Koc (online)		
		#43 Low cost seawater Electrolyser for Advanced "green" H2 production: Stefania Siracusano, Maria Aurora Mancuso, Vincenzo Antonucci			#55 Evaluating Power Conversion and Exergy Efficiencies in Photovoltaic Power Plant: Insights from a Year-Long Performance Analysis: Ufuk Güner, Tolga Cankurt, Seyed Hamed Pour Rahmati Khalejan			#78 Modified structure of nickel selenide via vanadium doping (NiV2Se4) for high- performance electrochemical overall water- splitting: Tauseef Munawar, Shoukat Alim Khan, Muammer Koc, Faisal Iqbal (online)		
12:00-13:45		Lunch								
		KEYNOTE SPEAKER								
13	:45-14:25	Prof.Dr. Arif Hepbaşlı								
		Room: Tesla-1			Room: Tesla-2			Room: Harczmî-1		
		Session Chair: Behiye Yuksel			Session Chair: Seda Karateke			Session Chair: H. Can Barutcu		
	Renewable Energy Technologies-3	#45 Low loading of precious metal in a PEM electrolyser: Maria Bottari, Stefania Siracusano	14:30 - 15:30		#65 Assessment of a Nuclear Based Integrated System to Produce Useful Outputs: Sibel Uygun Batgi, Ibrahim Dincer (online)	14:30 - 15:30	Energy Efficient Materials-3	#97 Enhancing Hydrogen Fuel Cell Efficiency: The Role of 3D-Printed Periodic Lattice Structures in Thermal Management and Mass Transport: Shoukat Alim Khan, Muammer Koc (online)		
14:30 - 15:30		#56 Energy, Exergy and Environmental Analyses of an Advance Renewable Based Energy System for Multigeneration: Moslem Sharifishourabi, Ibrahim Dincer, Atef Mohany (online)			#82 Application of a Molten Salt Reactor with Helium Brayton Cycle in Nuclear Submarines: Furkan Çavdar, Murat Emre Demir			#101 Investigate the effect of Titanium Dioxide (TiO2) Nanoparticles on Eruca Sativa Oil for Power Transformers: Muhammad Furqan Hameed, Abdul Rehman, Muhammad Muneed Ud Deen, Ghulam Rabbani, Ali Arsalan Saddique, Ammar Ul Hassan (online)		
		#60 Investigation of the Effect of Various GO (Graphene oxide) Content on the Optical Properties of PAAm (Polyacrylamide) Composite Thin Films for Possible Solar Cell Applications: Büşra Osma, Gülşen Akın Evingür (online)			#92 Predictive Modeling of Energy and Exergy Effects from Injector Placement in HCCI Engines Running on Diethyl Ether and Biogas Using Machine Learning Techniques: Aditya Sai Samavedam, Prasshanth C V, Sreekanth Manavalla, Tamilselvan P, Feroskhan M			#107 Online Monitoring of Power Transformer using IoT: Banumathi S, Prathisha A, Santhosh Kumar B, SelvaKarthick M, Shiva Kishnu S (online)		
		#105 Integrated Hydrogen Supply Chain Optimization: A MILP Approach for Renewable Energy Transition: Zeynep Bircan Bağdatlı, Nezir Aydin			#94 Synergistic Surfactant and CO <sub>2</sub> -Driven Hybrid Enhanced Oil Recovery (EOR) Method: Pranab Boral, Subrata Borgohain Gogoi, Ibrahim Dincer			#112 Simultaneous Electrodeposition of Ni-TiO2 Composite on Stainless Steel for Enhanced Hydrogen Production: Sumeyya Ayca, Ibrahim Dincer		
15:30-15:45					Coffee Break					
		Room: Tesla-1			Room: Tesla-2			Room: Harezmî-1		
		Session Chair: Recep Duranay			Session Chair: Mete Oguc			Session Chair: Muge Cerci		
	Sustainability and Environmental Management-3	#58 Effect of Distilled Waste HDPE Oil as Diesel Engine Fuel on Effective Efficiency: Tevfik Ataman, Ramazan Costu, Erhan Öztürk (online)	15:45- 16:45	Energy and Exergy Analysis-5	#96 Energy-Aware Routing Models based on Meta-Heuristic Algorithms in IoT: Monire Norouzi, Alireza Souri (online)	15:45- 16:45	Renewable Energy Technologies-4	#29 Integration of a Novel Small-Scale Roof- Mounted Combined Vertical Axis Wind Turbine for Energy-Efficient Buildings: Cihan Turhan, Yousif Saleh		
15:45-16:45		#61 Innovative Approaches to H2S Disposal in Geothermal Power Plants: Huseyin Bıyıkcı, Hasan Kaşıkçı, Yusuf Cambaz			#98 Development of a Green Urea Based Biomass Power Generating System: Dogan Erdemir, Ibrahim Dincer (online)			#67 Performance Analysis of a Phosphoric Acid Fuel Cell System: Kubilay Karayel, Ibrahim Dincer (online)		
		#69 A Comprehensive Review of Space Syntax Applications for Sustainable Urban Development in Commercial Areas: Aisha Al-Naama, Azzam Abu-			#100 Energetic and Exergetic Assessment of a Geothermal District Heating and Cooling System: Ebru Hancioglu, Arif Hepbasli (online)			#76 Design and thermodynamic analysis of a solar energy-based combined plant for power, hydrogen, heating, and cooling production: Ayşenur BOZKURT, Fatih YILMAZ (online)		
		Rayash				ļ				
		Rayash  #70 Impacts of Co-Substrate on Biogas Production: Kenan Dalkilic, Aytac Perihan Akan, Aysenur Ugurlu			#103 Exploring the Thermodynamic Lifecycle of Cells: A Generalized Exergy Framework for Biomedical Applications: Mete Öğüç, Zeynep Güneş Özünal, Ayhan Bilir			#80 Design and Analysis of Wind-Assisted Sail and Solar Power Systems for Bulk Cargo Ships: Cihan Emre Sahin, Murat Emre Demir		
		#70 Impacts of Co-Substrate on Biogas Production:		(	Cells: A Generalized Exergy Framework for Biomedical Applications: Mete Öğüç, Zeynep			and Solar Power Systems for Bulk Cargo Ships:		

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		Room: Tesla-1			Room: Tesla-2			Room: Harezmî-1	
	and Environmental	Session Chair: Muhammet ABDELATI	10:00-		Session Chair: Edwin Geo Varuvel	10:00- 11:00		Session Chair: Mutlu Yilmaz	
		#77 Mitigating Harmonic Distortion in Power Systems: A Case Study of the Southern Governorates Desalination Plant: Muhammet ABDELATI			#75 Optimal Utilization of Industrial Symbiosis for Waste-heat-based Greenhouse Production: Farzaneh Rezaei, Stefanie Hellweg, and Ramin Roshandel		Renewable Energy Technologies-5	#81 The Power Prediction of A PV Power Plant Using Un-decimated Wavelet Transform-based Machine Learning Methods: Mehmet Albayram, Alper Yılmaz, Gokay Bayrak	
10:00-11:00		#87 Assessment of Air Quality status using Pollution Indicators in industrial zone of Brega city: Tawfig Falani, Abdulaziz Mahdi, Mohammed Alrafadi, Khaled Alabeedi			#79 Surface sulfurization of structure modulated V2O5 by Cd-doping (CdVOx@S) enables boosted overall water-splitting in an alkaline medium: Shoukat Alim Khan, Muammer Koc, Faisal Iqbal, Ambreen Bashir, Tauseef Munawar (online)			#83 Effect of stainless steel mesh coupled to the serpentine flow field on performance for direct methanol fuel cells: Mikail Yağız, Selahattin Çelik, Fuat Yildirim (online)	
		#89 Treatment of Textile Effluents: Adsorption of Industrial Dyes by Porous Materials: FERHAT Djawad			#95 Energy-Aware Intrusion Detection Systems in Internet of Vehicles: Usman Alhaji Bukar, Alireza Souri (online)			#88 A Data-Driven Approach to Enhancing Solar Visibility on Distribution Grids: Mutlu Yilmaz, Recep Duranay, Muhammad Tanveer Sultan	
		#93 Future Emission Forecast of Ships and Vehicles Entering Mersin Port: Münir Süner			#109 Deep Learning-Enhanced Video Surveillance System for Detecting Violent Behavior Using Anomaly Detection Techniques: Deekshitha L P (online)			#111 Vehicle Technologies and Electric Vehicle Analysis: Haydar Emre Karaman, Süleyman Şimşel	
11:00-11:15					Coffee Break				
		Session Chair: Ebru Inan Barutcu							
	Renewable Energy Technologies-6	#71 Feasibility Studies for Potential Hydrogen Production Methods and Industrial Applications in Determining the Decarbonization Road Map in Turkey: Huseyin Bıyıkcı, Alper Vahaplar							
11:15-12:15		#86 On the use of machine learning for vibration- based condition assessment of offshore wind turbine foundations: Mahmoud Abdelhak, Abdollah Malekjafarian							
1110 12110		#91 Investigation on combustion, performance and emission characteristics of Waste Tyre oil — diesel blends with hydrogen in CI engine — A dual fuel approach: Edwin Geo Varuvel, S Kiran, Leenus Jesu Martin							
		#106 Artificial Intelligence Techniques for Solar- Based Hydrogen Generation: H. Can Barutcu, Arif Karabuga, Zafer Utlu							
		#114 Techno-economic analysis of Thermochemical energy storage materials for high temperature applications: Rajesh Kumar							
					Closing Ceronomy				
					Zoom links:				
December 19, 2024 (GMT+3 Istanbul Time)									
		Opening Speed	hes and key	note speakers 1-2-3: htt	ps://zoom.us/j/97752854622?pwd=viVv7dMiQa6chTLQrSmOeGFbFi6K ID: 977 5285 4622 Decembed: 406260	uW.1			
	Password: 406369  Tesla - 1: https://zoom.us/j/93293394014? pwd=B6rb1v3mGdhPYTf3Kbw3IDGM7OqUxL1  ID: 932 9339 4014  Password: 493702								
	Tesla - 2: https://zoom.us/j/96041635374?pwd=g2hPKkrXoGiwGYv0Znnd1mmVPMSmyD.1 ID: 960 4163 5374 Password: 995893								
Harezmi - 1: https://zoom.us/j/96838709459?pwd=n3bKeFyoUvaXcm4EJEWCMybLaVmIVe.1									
December 20, 2024 (GMT+3 Istanbul Time)									
Keynote speakers 4-5-6: https://zoom.us/j/96261262582?pwd=FBEr13t3UajeOXpODlw8QNGoii8IQ5.1 ID: 962.6126 2582 Password: 247362									
Tesla - 1: https://zoom.us/j/95944620301?pwd=fRo69w8AqIZROsepmSSBbyXgBcNjuN.1 D: 959 4462 0301 Password - 452259									
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	Password: 031897  Harezmi - 1:https://zoom.us/j/99536900130?pwd=bbwJCaeaYvlx2aglsrDifZOrHPTQOc.1  ID: 995 3690 0130  Password: 667297								
	Password: 667297  December 21, 2024 (GMT+3 Istanbul Time)								
	Tesla - 1: https://zoom.us/j/919278254312pwd=yDIPRIO84SBQsM2gohVLTJH9VDfhHL1 ID: 919 2782 5431 Password: 450932								
Tesla - 2: https://zoom.us/j/92855913846?pwd=D2RtioA3ZbELfZOq8SWZ8Kbt5mRz8t.1 ID: 928 5591 3846 Password: 340395									
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