

IGC 2024



Event Management

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energycluster.is #IGC2024Iceland #Geothermal4All



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Wifi in Harpa: igc2024



The Iceland Geothermal Conference (IGC) is a renowned international event that brings together industry and policy leaders in geothermal energy from around the world. Hosted by the Iceland Renewable Energy Cluster, IGC2024 marks its 5th edition.

This prestigious event explores new opportunities and diverse developments in the geothermal sector, emphasizing its role in achieving a sustainable future with a net-zero carbon footprint and reshaping urban landscapes. Join the discussion to help pave the way for a cleaner and more efficient future in heating, cooling, and urban living.

Organized by experts from the cluster, the conference offers breakout sessions, plenary sessions, exhibitions, field trips, B2match, and more. Iceland's unique setting provides access to six geothermal power plants, showcasing various installations, turbine setups, and direct utilization technologies.

Welcome

Welcome to Iceland – Home of Geothermal IGC 2024

On behalf of the Government of Iceland I sincerely welcome you to the Iceland Geothermal Conference 2024.

Sustainable geothermal utilisation has been an important part of Icelandic energy policy for decades and we are grateful to the pioneers in Iceland who started the shift from coal and oil to geothermal energy in the beginning of last century. As a result, over 90% of our houses are now heated with geothermal energy and around 30% of our electricity production comes from geothermal power plants.

Geothermal resources hold much more potential worldwide than is currently utilised, which provides both challenges and opportunities. For geothermal energy to remain a feasible option the industry must remain vigilant and innovative in order to find competitive and cost-effective solutions. The Iceland Geothermal Conference has become an important forum for experts to meet and share experiences of geothermal research and utilisation. We know that in countries with geothermal resources opportunities for heating and electricity production can make a significant difference for economic and social development, as well as reducing CO2 emissions. We have a great opportunity here at IGC 2024 to share knowledge and discuss how we can make that happen.

I hope that your participation in the IGC 2024 will give you valuable insight into current trends in the geothermal world and inspire you to promote the benefits of geothermal utilisation worldwide.



Guðlaugur Þór Þórðarson Minister of the Environment, Energy and Climate.

Welcome to the 5th Iceland Geothermal Conference 2024

We are thrilled to welcome you to our 5th Iceland Geothermal Conference 2024, an event dedicated to advancing the global dialogue on geothermal energy.

Iceland has made significant progress in utilizing geothermal energy, tapping into the earth's natural heat to offer a clean, renewable energy source. It is fitting that we convene here, in a country where geothermal energy is not only a cornerstone of the national energy strategy but also a testament to what can be achieved through commitment and ingenuity when building up a sustainable society.

This year's conference is designed to inspire, educate, and connect. Our comprehensive program includes keynote speeches from leading experts, interactive workshops, and ample networking opportunities. Whether you are here to deepen your technical knowledge, explore new business opportunities, or understand the policy landscape, the Iceland Geothermal Conference 2024 offers a platform for meaningful engagement and growth.

As we gather to discuss the future of geothermal energy, we are reminded of the critical role this sustainable resource plays in addressing global energy challenges. The insights and collaborations forged during this conference will help shape the path towards a cleaner, more sustainable future. Thank you for joining us at the Iceland Geothermal Conference 2024. Together, let us ignite the future of sustainable energy.

The Conference Committe of IGC 2024:

Vala Hjörleifsdóttir phd, chair Alma Stefánsdóttir, Arna Pálsdóttir phd, Birta Kristín Helgadóttir, Bjarni Gautason, Bjarni Richter, Carine Chatney, Friðrik Ómarsson, Hörður Harðarson, Katrín Ragnarsdóttir



Rósbjörg Jónsdóttir CEO Iceland Renewable Energy Cluster

	Виомиона			
	Program	10:		
DAY 1		10:		
	SIDE EVENTS	10.		
9:00-13:00	Bridging the Gaps: Advancing Superhot Rock Energy. At Björtuloft, Harpa Concert Hall			
	Geothermal Energy: Empowering Development Beyond Electricity Generation. At Silfurberg, Harpa Concert Hall			
13:00-17:00	Geosmart meets Stakeholders in Reykjavik The event is free of charge, open to the public, and will take place Ríma, Harpa, Reykjavik. Limited seats, first come, first served.			
14:00-16:00	Presentation of International Geothermal Association at Sky bar			
16:00 - REGISTRATION & EXHIBITION OPENS				
	16:00 - REGISTRATION & EXHIBITION OPENS			
	WELCOME RECEPTION	14:		
17:00-19:00		14:		
17:00-19:00	WELCOME RECEPTION Flói - Welcome to the opening of the 5th International Iceland	14:		
17:00-19:00	WELCOME RECEPTION Flói - Welcome to the opening of the 5th International Iceland Geothermal Conference in Reykjavík! We are delighted to host you at Harpa, our iconic conference hall, where Reykjavík's Mayor, Mr. Einar Þorsteinsson,will address our			
17:00-19:00	WELCOME RECEPTION Flói - Welcome to the opening of the 5th International Iceland Geothermal Conference in Reykjavík! We are delighted to host you at Harpa, our iconic conference hall, where Reykjavík's Mayor, Mr. Einar Þorsteinsson, will address our distinguished guests. Join us at the Welcome Reception amidst our exhibitors in the business showcase area. We wish you a successful and			

DAY 2	SECURITY & STABILITY	SUSTAINABILITY & INNOVATION	VIABILITY & PROFITABILITY	GEOTHERMAL FOR ALL						
8:30-10:00	PLENARY SESSION - OPENING Opening Speech, Dr. Guðni Th. Jóhannesson, President of Iceland, Sævar Freyr Þráinsson, CEO of Reykjavik Energy, GUO Xusheng, Chief Geologist, Sinopec Corp, Dr. Marit Brommer, CEO of International Geothermal Association,									
10:00-10:30	COFFEE BREAK - EXHIBITION BLUESPARK® Technology Demonstration - Removing Wellbore Scale at 10:00 Location in front of the main entrance at Harpa conference venue -									
10:30-12:00	A1 - Policy & Regulator Framework	B1 - Enhance Geothermal System	C1 - Geothermal Urban Planning	D1 - Empowering the Energy Transition						
	Futures Ms. Pauline Lucas Policy Director Euroheat & Power, Harnessing Earth's Heat Dr. Heimir Tryggvason Specialist National Energy Authority of Iceland Agústa Ýr Porbergsdóttir Fortescue Technology And Innovation - Baker Hughes Prof. Anna Sowiżdżał Prof. AGH University of Krakow Mr. Riccardo Pezzoni Proposal Department Manager Exergy International Srl R&d Lead For District Heatir Wint Vlatko Kovačić Director - City Of Karlovac Ms. Taylor (Alex) Martin Engineer Egg Geo LLC University of Reykjavík Moderator: Einar Porsteinsson		CTO Arctic Green China & Sinopec Green Energy, Daði Þorbjörnsson - ÍSOR Ph.d. Egill Maron þorbergsson R&d Lead For District Heating, Veitur Mr. Vlatko Kovačić Director - City Of Karlovac Ms. Taylor (Alex) Martin Engineer Egg Geo LLC	Mr. Guðni Axelsson - Director Jarðhitaskóli GRÓ / ÍSOR Juliet Newson Iceland School of Energy Ms. Charlotte Barlow Senior Analyst Aurora Energy Research Mr. Patrick Muanza Kant PhD-student University of Iceland / GRÓ GTP Dr. Mohd Hariri Arifin Assoc. Prof. Universiti Kebangsaan Malaysia Moderator: Ása Björg Jónsdóttir						
12:00-13:30 LUNCH - EXHIBITION										
14:00-19:00	FIELD TRIPS Attendees of IGC 2024 can select one field trip. Kindly be aware that space is limited. Information about booking will be sent out to registered participants soon.									
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DAY 3	SECURITY & STABILITY	SUSTAINABILITY & INNOVATION	VIABILITY & PROFITABILITY	GEOTHERMAL FOR ALL	-		
8:30-10:00	A2 - Direct Utilization - Diversification	B2 - Zero Waste Geothermal - Circular Economy	C2 - Derisking Geothermal - From Exploration to Funding & Operation	D3 - Geothermal Operation	MATC		
	Dr. Marta Rós Karlsdóttir Managing Director Baseload Power Iceland Hlín Vala Aðalsteinsdóttir Mechanical Engineer - Verkís Ms. Anyela Murillo Arroyo Instituto Costarricense de Electricidad Helga Kristín Jóhannsdóttir Mr. Aron Óttarsson - Efla Baldur Brynjarsson Research Project Mangager Reykjavik Energy Vigfus Arnar Jósefsson Mechanical Engineer - Verkís Fida Abu Libdeh Founder & Ceo - GeoSilica Iceland		Antoine Lochet Head of Elements by BBA BBA//Fjeldco Hilal Kıvanç Ateş Vice President - Türkiye Kalkınma Ve Yatırım Bankası A.ş. Kristín Steinunnardóttir Geothermal Specialist	Ms. Beata Kepinska Mineral And Energy Economy Research Institute Pas Sæunn Halldórsdóttir - ÍSOR Finnbogi Óskarsson - ÍSOR PhD. Eng. Maciej Miecznik Mineral and Energy Economy Research Institute	MATCHMAKING B2B	Program DAY 4	
	Business Development Manager Geothermal Park - ON Ms. Nor Binti Ismail Workstream Leader (Energy Transition Solutions) Petroliam Nasional Berhad	Mr. Davide Toselli Sales Engineer - Turboden Spa Giulia Cittadini Policy Advisor - EGEC Oli Torfason	Cowi Dr. Dave Waters Director/geoscientist Paetoro Consulting UK Ltd	Polish Academy of Sciences	3 9:00-15:30	7:00-20:30	FIELD TRIP
	Moderator: Haraldur Hallgrímsson	International Carbon Registry Moderator: Birta Kristín Helgadóttir	Moderator: Elín Hallgrimsdottir	Moderator: Guðni Axelsson	5:30		ÞEISTAREYKIR POST TOUR
10:00-10:30	•	COFFEE BREAK	-				TWO-DAY TOUR TO
10:30-12:00	A3 - Food Security	B3 - Super Hot Geothermal	C3 - Energy Storage & Load Balancing	D3 - Geothermal Operation			NORTH -EASTERN ICELAND
	Dr. Sveinn Aðalsteinsson Managing Director - Orkídea Sigurður Markússon - VP Dev. &	Ms. Terra Rogers Director - Clean Air Task Force Gunnar Skúlason - ÍSOR	Gunnar Thorsteinsson Columbia University Katrín Ragnarsdóttir - COWI	Dr. Guðjón Helgi Eggertsson Specialist, Geothermal Operation Landsvirkjun	MATO		SIDE EVENTS
	Scale UP - Abalone Alexandra Kjeld Environmental Engineer - EFLA Ken Noda - Ifarm Justine Vanhalst Iceland Eco Business Park Engineer Martha Nyambura Mburu General Manager, Strat., Res. & Innov. Geothermal Development Company Laura Wendell Bermann Senior Energy Specialist - World Bank	Kristinn Ingason Group Lead, Geothermal Energy - COWI Dr. Arna Pálsdóttir Head Of Resource Innovation Reykjavik Energy Hjalti Páll Ingólfsson Director GEORG/Chair of KMT Funding Committee GEORG - Geothermal Research Cluster	Gabor Molnar Geothermal Engineer, Civil Engineer M.Sc Arctic Green Engineering Services Ltd Shiladitya Paul - GeoSmart Dr. Dirk Schaer Technical Manager Marketing and Sales Catalysts - Sasol Germany Gmbh Dr. Helga Dögg Flosadóttir CEO - Atmonia ehf	Li Ming Geothermal Engineer Sinopec Green Energy Dr. Jonathon Clearwater Technical Domain Specialist, Reservoir Engineering Seequent Donald Leger Application Engineer EthosEnergy	MATCHMAKING B2B 9:0	9:00-13:00	Volsung: Wellbore Modelling Workshop at Reykjavík University
12:00- 13:00	Moderator: Alma Stefánsdóttir	Moderator: Ásdís Benediktsdóttir	Moderator: Marta Rós Karlsdóttir	Moderator: Sunna Björg Helgadóttir	9:00-15:30		
13:00-14:30	A4 - Resilience - Natural Disasters B4 - Zero Footprint Geothermal C4 - Drilling, Well Completion D4 - Heating & Cooling						
	Lárus Porvaldsson Chief Reservoir Engineer - HS Orka Fred John Managing Director, Dominica Geothermal Development Company Ltd - Geo Dominica Kristinn Harðarson - HS Orka Reynir Sævarsson - Business Development Manager EFLA Consulting Ármann E. Lund - Verkís Sigrún Tómasdóttir Hydrogeologist - Reykjavik Energy	Mr. Kenneth McIntush Engineer/President Trimeric Corporation Elín Vignisdóttir - Geographer Verkís Sigurður R. Rúnarsson Specialist Power Plant Operations - ON Ásgerður K. Sigurðardóttir Specialist, Geothermal Operation Landsvirkjun Dr. Eylem Kaya Senior Lecturer University Of Auckland	& Workover Rochelle Longval Vice President, Geothermal Blue Spark Energy Bruce Gatherer - Jarðboranir Prof. Ingo Sass Helmholtz Centre Potsdam Gfz German Research Centre for Geosciences Dicky Alamsyah Mechanical Engineer Pt Rigsis Energi Indonesia Steven Shanks - Welltec Erik Neumann - Tu Dresden Mr. Paul Ramsak - Senior Advisor Netherlands Enterprise Agency RVO	Dr. Egill Júlíusson CTO - Arctic Green Energy Auður Agla Óladóttir - ISOR Ms. Pauline Lucas Policy Director - Euroheat & Power Harnessing Earth's Heat Mark Silberg Special Advisor On Climate and Energy - Office Of Governor Jared Polis (Colorado) Colorado Governor's Office	MATCHMAKING		
	Moderator: Carine Chateney	Moderator: Hulda Kristín Helgadóttir	Moderator: Sigurður Sigurðsson	Moderator: Marit Brommer	B2B		
14:30-15:00	-15:00 COFFEE BREAK - EXHIBITION						
15:00-16:30	Mr. Guðlaugur Þór Þórarson, Minister of Kristín Linda Árnadóttir - Deputy CEO of Dr. Bjarni Pálsson - Designer of IGC	Environment, Energy and Climate, Dr. Ó	- PLENARY lafur Ragnar Grímsson, former president r, Sigurður Atli Jónsson - CEO Arctic Gree	of Iceland, en, Gauri Singh - Deputy Director, IRENA,	9:00-15:30		

Platinum Partners

Reykjavík Energy





Reykjavik Energy is a power and utility company owned by three municipalities. Through four subsidiaries, resources are utilised in a sustainable and cost-effective manner to serve households, businesses and institutions in accordance with statutory obligations at fair and competitive prices

Arctic Green is the leading exporter of the Icelandic success in geothermal and renewable energies to markets around the globe. Clean heating and cooling projects in over 70 municipalities across Asia, Europe, and the Middle East, specializing in geothermal as an anchor energy source. Arctic Green and its JVs form the world's largest and fastest growing geothermal heating & cooling consortium with #1 Market Share in China and expanding projects across continents.

Landsvirkjun is the National Power Company of Iceland. Landsvirkjun operates fifteen hydropower stations, three geothermal power stations and two wind turbines for research purposes in five operating areas in Iceland. In operating power stations, emphasis is placed on a holistic vision, where prudence, reliability and harmony of the operations with environment and society are the guiding principles.

Exhibitors

- 01 **HS Orka**
- 02 **Verkís**
- 03 EthosEnergy
- 04 Voestalpine Tubulars
- 05 BBA//Fjeldco
- 06 Hephae Energy Technology
- 07 Corona Control
- 8A SLB
- 08 **Fagerberg**
- 09 **DESMI**
- 9A Interwell
- 10 **HD**
- 11 Endress-Hauser
- 12 Inco Drilling
- 14 Seequent
- 15 **Iceland Drilling**
- 16 **COWI**
- 17 GeoSmart
- 18 Blue Spark Energy
- 19 Landsvirkjun
- 19B **SET**
- 20 **Ísor**
- 21 **EFLA**
- 22 Arctic Green
- 23 Reykjavík Energy
- 23A **ON**
- 24 Green Chemicals
- 25 Glinik Drilling Tools
- 30 The Iceland Renewable Energy Cluster





The Iceland Renewable Energy Cluster appreciates the generous support and participation of the 5th Iceland Geothermal Conference



















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