

GEOLAC 2020

The 7th Geothermal Congress for Latin America & the Caribbean (GEOLAC 2020)

September 15-17, 2020, Virtual

Geothermal is abundant across Latin America and the Caribbean but the potential is yet to translate into investment and output. Multilateral support for geothermal remains strong, however, and the project pipeline is deepening. Covid-19 has reset the landscape globally, with Latin America being particularly hard hit. With low oil prices and fiscal challenges across many countries, questions remain about political commitment to geothermal. On the flip-side, there is a clear argument for a meaningful transition towards clean energy. Will the industry succeed in persuading the region that geothermal is an effective, reliable and economic source of baseload? Can geothermal play a role in re-activating Latin American economies post-Covid and responding to the need to decarbonize? Will we see significant engagement of geothermal with the extractives, industrial or agricultural sectors, and what will this mean for the industry? GEOLAC 2020 will explore these questions and more with the leading experts in the industry.

Co-hosted by the Inter-American Development Bank (IDB) and the World Bank Group, GEOLAC is the only annual gathering of the regional geothermal market. With unique, interactive content, GEOLAC Virtual will address the challenges facing the industry, showcase national projects and initiatives, and explore opportunities for new partnerships and programs to drive the industry forward.

Ultimately GEOLAC serves to accelerate the development of world-class geothermal projects across Latin America and the Caribbean.

GEOLAC 2020 | PRELIMINARY AGENDA (times in ET)

August 26th: Pre-event webinar

10.00 Is the Time Ripe for An Expanded Geothermal Industry in Latin America and the Caribbean?

Dr. Marit Brommer, Executive Director, **International Geothermal Association**

Christiaan Gischler, Co-Leader Special Group on Mining, Geothermal and Hydrocarbons, **Inter-American Development Bank**

Elin Hallgrimsdottir, Senior Energy Specialist, **World Bank, Infra Energy Global Programs (IEEEES) Energy Sector Management Assistance Program (ESMAP)**

Live Panel Discussion Moderated By: **Alexander Richter**, Managing Director, **Iceland Renewable Energy Cluster & Iceland Geothermal**, and **Founder of ThinkGeoEnergy**

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Day One | September 15th

10.00 Welcoming Remarks and Co-Host Welcoming Interview

Senior representatives of our co-hosting institutions highlight their priorities and objectives for the Latin America's geothermal industry.

Franz R. Drees-Gross, Infrastructure Regional Director for Latin America and the Caribbean, **World Bank**
José Agustín Aguerre, Manager, Infrastructure and Energy Sector, **Inter-American Development Bank**
Matthew Perks, CEO, **New Energy Events**

10.30 Geothermal Policy and Delivery in the Post-Covid Reality: How Are Central American Stakeholders Prioritizing Geothermal as a Sustainable Long-Term Energy Solution?

Live Panel Discussion

Our live panel of senior regional stakeholders put today's pandemic and fiscally-challenged environment into context, and tease out ways in which geothermal can be part of the solution.. We look at the current and future challenges of energy policies for the development of geothermal energy for heating and electricity generation in Central American countries, and strategies for realizing progress.

Ing. Leonardo Deras, Vice Minister of Energy, **Ministry of Energy, Government of Honduras**
Irene Cañas Díaz, Chief Executive Officer, **ICE Group**
José Salvador Handal Candray, Executive Secretary, **National Council of Energy, El Salvador**
Mynor Gil, Chief Executive Officer, **LaGeo**
Michelle Alejandra Ramirez Bueno, Consultant for Energy Transition, *moderator*

11.15 The Future of Geothermal: Where Will Geothermal Investment Derive from As Industries Look to Decarbonize? From Oil and Gas Decarbonization to Flowers

Live Panel Discussion

We look beyond power production to potential expansion of geothermal across industries, and what this means for geothermal investment. Where are the possibilities for cooperation? How can geothermal benefit not only the green credentials, but also the economics, of these industries? What are the next steps that need to happen? Focus on agriculture, oil and gas, district heating and mining

James Jackson, Chairman, **Clean Energy Business Network and President, Resilience Energy**
Neil Jonathan Gould Hellings, Managing Director, **Oserian Development Corporation Ltd**
Christiaan Gischler, Co-Leader Special Group on Mining, Geothermal and Hydrocarbons, **Inter-American Development Bank**, *moderator*

12.00 International Developers: For or Against Geothermal in Latin America?

Live Panel Discussion

Latin America and the Caribbean offer a unique set of geothermal opportunities, but not without challenges. In this session, we investigate how international developers see the region's geothermal potential, what they'd like to see from policy-makers and multilaterals, and what we can glean from their experience on the global stage.

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Peter Wood, Head of International Development and Mergers & Acquisitions, **Energy Development Corporation (EDC)**

Constant Maton, Director Geothermal Energy, Business Development & Strategy, **Storengy**

Sandro Bruni, Business Development, **ENEL**

Moderated By: **Alexander Richter**, Managing Director, **Iceland Renewable Energy Cluster & Iceland Geothermal**, and Founder of **ThinkGeoEnergy**

12.45 Town Hall Sessions: This multi-channel session offers ultimate access, with Town Hall-style breakout rooms dedicated to answering delegate questions and sharing expert opinions

Town Hall I	Town Hall II
Can 'Clean and Resilient' Replace Price as the Deciding Factor in Energy Matrix Planning? <i>Everyone wants to be green, but putting sustainability over price is not an easy decision. Join our experts to discuss what needs to be done to make this decision easier.</i>	The Economics of Direct Use: Is an Expansion of Direct Use Geothermal in the Cards? <i>Our experts have innovative and inspiring direct-use experience under their belts. Bring your questions and consider what other possibilities for direct use application are out there for LAC communities and industry.</i>
Marcelo Andres Mena Carrasco , Director, Centro de Acción Climática , Pontificia Universidad Católica de Valparaíso and former Minister of Environment, Chile Claudio Seebach , Executive Chairman, Generadoras de Chile , <i>session leader</i>	Rosa N. Escobar , Engineering Manager, LAGEO S.A. de C.V. Neil Jonathan Gould Hellings , Managing Director, Oserian Development Corporation Ltd Carlos Paiz , Director, San Michkael Geothermal Project Carolina Honores , Sernageomin Elin Hallgrimsdottir , Senior Energy Specialist, World Bank , Infra Energy Global Programs (IEES) Energy Sector Management Assistance Program (ESMAP) , <i>session leader</i>

1.30 Behind the Main Stage- Virtual Intermission

Join one of our themed breakout sessions, where thought leaders and market stakeholders meet.

Designed to foster interaction and conversation, these rooms include video and text chat options. Video chat is limited to 10 people, so get in early if you want to snag a spot on-screen!

Lounge I	Lounge II	Lounge III
Applying Lessons from Covid to Develop Effective Risk Mitigation	Building Political Commitment for Geothermal: Stakeholder 'Wishlist'-What Will It Take to Get There?	Is the Regulatory Gap Holding Back the Geothermal Industry?

2.00 Deep Dive Town Halls: Bring Your Questions, Get Answers

Town Hall I	Town Hall II
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Is There A Future for Geothermal Lithium Extraction in Latin America? <i>We're seeing progress on lithium extraction from geothermal in the U.S, but can this be a game-changer for the lithium rich Andean region?</i>	Are Any New Technologies Emerging that Could Impact the Economic and Risk Mitigation Realities for Geothermal Development? <i>Goal number one: Bring down the cost and risk of geothermal. Ask our experts about what tech is coming on-line to help us do just that.</i>
Rod Colwell, Chief Executive Officer, Controlled Thermal Resources William L. Osborn, Chief Executive Officer, Geothermal Solutions Inc. Carlos Jorquera, Industrial Engineer, MBA in Energy Economics and MBA in Corporate Management, Founder, Jorka Energy consulting company, <i>session leader</i>	John Redfern, President and CEO, Eavor Alexander Richter, Managing Director, Iceland Renewable Energy Cluster & Iceland Geothermal, and Founder of ThinkGeoEnergy, <i>session leader</i>

2.45 End of Day One

Day Two | September 16th

10.15 Kick-off Polls

10.30 The Next Generation Chilean Grid: What Is the Role of Geothermal?

Live Q&A

Straight-to-the-issue interview of Chile's Deputy Minister of Energy about how they intend to meet their climate goals, increase flexibility on the grid, and do so with investment in geothermal (or not).

Francisco Javier López, Deputy Secretary of Energy, Ministry of Energy, Chile, interviewed by **Jerónimo Carcelén**, President, **Geothermal Council for Chile**

11.00 Is There a Shift in the Oil and Gas Sector Towards Geothermal?

Live Panel Discussion

Building synergies between the hydrocarbon sector and geothermal is the talk of the town, as oil and gas players strive to green their portfolios and leverage on related industry expertise and capacity. What are the next steps to expanding this cooperation and marking progress for both sectors?

Philip Ball, Senior New Venture Geologist, **Total**

James Jackson, Chairman, **Clean Energy Business Network** and President, **Resilience Energy**

Ann Robertson-Tait, President, **GeothermEx, Inc.** (a Schlumberger company)

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Dr. Marit Brommer, Executive Director, **International Geothermal Association**, *session leader*

11.45 Town Hall Sessions: This multi-channel session offers ultimate access, with Town Hall-style breakout rooms dedicated to answering delegate questions and sharing expert opinions

TOWN HALL I	TOWN HALL II
Is Latin America Ready to Take the Next Steps Towards Geothermal Co-Production with Hydrocarbons? <i>What lessons are regional players drawing from international experience in co-production? What are expectations for LAC pilot projects in this space and for future cooperation?</i>	Geothermal's Role in Making Chile's Aggressive Decarbonization Vision a Reality: Project, Legislation and Policy Updates <i>Quiz Chile's leading geothermal experts on progress made towards geothermal for power and direct use application.</i>
Angela Patricia Alvarez Gutierrez , Leader of Renewable Energy Portfolio, EcoPetrol Francisco Porturas , President and Founder, Peruvian Geothermal Association César Patiño , Regional Director Latin America & Caribe, Society of Petroleum Engineers Oscar Llamasa , Communications Director, Colombian Geothermal Association (Ageocol) <i>session leader</i>	Gabriel Prudencio , Head of Sustainable Energies Division, Ministry of Energy, Chile Diego Morata , Director, Centro de Excelencia en Geotermia de Los Andes (CEGA)

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Lounge I	Lounge II	Lounge III
Have Any Risk Mitigation Solutions to Date Really Worked?	Expectations for Geothermal's Role in a Future LAC Green Hydrogen Economy	Can Geothermal Get Out of the Gate in LAC Countries Where it Is Yet to Take Off?

1.15 Town Hall Sessions:

This multi-channel session offers ultimate access, with Town Hall-style breakout rooms dedicated to answering delegate questions and sharing expert opinions

TOWN HALL I	TOWN HALL II
Mexico Town Hall: Developer Perspectives on Concession Prospects	Gender in Geothermal: What Needs to Happen Next?

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<i>Bring your questions to this panel of leading geothermal developers and get their views on expectations for the Mexican market.</i>	<i>Our leading women of geothermal answer your questions on how we can make real progress for women in all facets of the geothermal industry.</i>
Dr. Carlos Antonio Chalbaud , Business Development Manager, Storengy/Engie Group Michelle Alejandra Ramirez Bueno , Consultant for Energy Transition, <i>session leader</i>	Rosa N. Escobar , Engineering Manager, LAGEO S.A. de C.V. Nathyeli Acuna , Gender Specialist, Energy Sector Management Assistance Program (ESMAP) WBG Daniela Blessent , PhD, Professor at Universidad de Medellin , and President, AGEOCOL , <i>session leader</i>

2.00 End of Day Two

Day Three | September 17th

10.15 Kick-Off Polls

10.30 Colombia: What is Driving Energy Policy Now and Looking Forward? What does Colombia's Energy Matrix Look Like Ten Years from Now?

A no-holds-barred interview exploring Colombia's energy policy objectives, and where geothermal fits into the mix.

Miguel Lotero Robledo, Vice Minister of Energy, **Ministry of Energy, Colombia**

Interviewed by **Gastón Siroit**, **Inter-American Development Bank**

11.00 The Re-Establishment of Geothermal as a Viable Source of Energy in Mexico

A no-holds-barred extended interview with CFE about the real potential for geothermal development in Mexico, and who will be in the game.

Ing. Ismael Canchola Félix, Director of Geothermal Projects, **Comisión Federal de Electricidad (CFE)**

Interview conducted by **Jose Antonio Urteaga Dufour**, **Inter-American Development Bank**

11.30 Caribbean Geothermal In a Post-Covid World: Where Does The Sector Stand?

Live panel discussion

Resilience and sustainability are more important now than ever. Our panel of Caribbean geothermal champions grapple with the pros and cons of geothermal as a viable energy solution for the region.

Hon. Mark Brantley, Premier and Minister of Finance, Statistics, Economic Planning, Education, Library Services, Human Resources, Industry, Trade and Consumer Affairs, Health, Tourism and Information Technology, Public Utilities and Energy and Foreign Investments, **Nevis**

His Excellency Dr. Vince Henderson, Permanent Representative and Ambassador to the United Nations, **Commonwealth of Dominica**

Ellsworth Dacon, Director of Energy, **St. Vincent and the Grenadines**

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Joseph Williams, Head (Acting), Renewable Energy/Energy Efficiency Unit, **Caribbean Development Bank**, *moderator*

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Lounge I	Lounge II	Lounge III
Can Geothermal and Tourism Successfully Co-Exist?	Post-Pandemic, How Could Geothermal Feature in Emergency and Contingency Planning Strategy?	Should Geothermal be Powering the Mining Industry?

12.45 LaGeo Case Study: San Vicente and Chinameca Fields- Project Design to Maximize Local Community Impact

This case study will showcase efforts to increase the positive impact on local communities by fully tapping into the geothermal resource and maximizing the use of residual heat.

Angel Fernando Monroy Parada, Chief Technical Officer, **LaGeo**

Mariano Gonzalez Serrano, Senior Energy Specialist, **World Bank**, *interviewer*

1.15 Wrap Around the Region: A Survey of Geothermal Outlook Across LAC

Our expert speakers give a brief overview of the geothermal development expected in the region and hot spots to watch.

Mariano Gonzalez Serrano, Senior Energy Specialist, **World Bank**

Javier García Fernández, **Inter-American Development Bank**

Martin Walter, Sector Specialist, Special Group for Mining, Geothermal Energy and Hydrocarbons Infrastructure and Energy Sector, **Inter-American Development Bank**

Warren T. Dewhurst, Ph.D., P.E., Managing Member, **Dewhurst Group, LLC**, *moderator*

2.00 Closing Statements and End of GEOLAC Main Days

Expert Corners:

A series of recorded presentations from industry experts, available to view at your convenience. Speakers will be available via one-on-one networking to discuss your comments or questions

***How Direct-Use Geothermal Re-Invented the Kenyan Flower Industry**

Neil Hellings, Managing Director, **Oserian Development Corporation Ltd**

***Take One: Preliminary Assessment of Geothermal Resources of Colombia**

Claudia Maria Alfaro, Coordinator of the Geothermal Resources Exploration Working Group, of the Directorate of Basic Geosciences, **Servicio Geológico Colombiano (SGC)**

***Barriers to Geothermal Development in Colombia**

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Angela Prieto, Secretary, AGEOCOL

October 8th:

GEOLAC Technical Assistance Forum sponsored by the Geothermal Development Facility for Latin America

10:30 – 10:40 Welcome and Introductions

Introduction of the goal of the Technical Assistance Forum (TAF) within the goals of GDF and support of donors, agencies, embassies and ministries.

Christoph Sigrist, Chairman, Geothermal Development Facility for Latin America (GDFLA)

Introduction of the goal of the Technical Assistance Forum (TAF) within the goals of GDF and support of donors, agencies, embassies and ministries.

10:40 – 11:20 GDF Update on GDF Activities Including Developer Survey and Response

GDF activities through 5 calls for proposals, feedback from project sponsors active in the region and planned improvements to the GDF Facility to facilitate discussion.

Allegra Seipp, KfW and member of the GDF Investment Committee

11:20 – 12:20 Panel Discussion with DFI's and TA Providers in Support of Geothermal

The panel discussion will ask DFI's and TA providers to outline what they may plan to do different in light of recent COVID implication but also a 10 year trend that shows negligible advancement of geothermal within the region. The discussion will explore panel member perspective on the position published by GDF after closing call 4 (<https://gdf-lac.com/wp-content/uploads/2020/02/GDF-Latin-America-Foundation-012020-publication.pdf>) and the subsequent interview <https://www.thinkgeoenergy.com/interview-lack-of-understanding-and-relevant-policy-holding-back-geothermal-in-latin-america/> outlining the GDF perspective on challenges which the DFI and TA providers could focus.

Chris McCormick, Chief Investment Officer, GDF, moderator

12.20 Virtual GEOLAC Networking

1.30 – 4.00 Inter-American Development Bank Virtual Roundtable- 2019 and 2020 Geothermal: Developments in LAC- Updates, Successes and Areas of Improvement

A 'live' virtual roundtable of leading Latin American and Caribbean authorities to discuss progress and identify next priorities

Christiaan Gischler, Co-Leader Special Group on Mining, Geothermal and Hydrocarbons, Inter-American Development Bank, moderator

Invited to Speak: Authorities and Development Financial Institutions

Invited to Participate and Ask Questions: Geothermal Developers and Civil society

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Live Leaders Q&A

The marquee sessions at GEOLAC Virtual, we'll be interviewing some of the most powerful voices across the Latin American and Caribbean geothermal markets. Have questions? We're building in time for you to ask them.

Town Hall Sessions

You don't need to take a plane to get answers. Our Town Hall sessions offer the ultimate access, with breakout rooms populated by geothermal industry leaders and experts dedicated to answering your questions across a range of critical issues. Get direct responses that will help determine your approach to the market.

Idea Exchange Networking

Reinventing the networking break, join us for our streamed idea exchange sessions for informal discussions with peers and potential clients on a range of issues. Limited to 20 people per session, and with the option to turn your camera on, Idea Exchanges enable you to meet the market – and have a voice.

Experts: On-Demand

Available on-demand throughout GEOLAC Virtual, a series of snapshot videos brought to you by leaders in the field will bring you up-to-speed – in five minutes or less – on a range of the critical issues facing the market.

Virtual Expo Hall

Think of it as a resource center for data, products and insights – all brought to you by GEOLAC's industry-leading supporters.

Flash Networking

Missing the chance meetings in the exhibit hall that lead to unexpected insight, new partnerships – and new business? So do we. Use our flash networking capability to replicate that moment.