

## 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?

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.

### Day One | September 15<sup>th</sup>

#### **9.30 Doors Open and the GEOLAC Experience Begins**

*Before sessions begin, browse the day's schedule in the Reception area, explore the Supporters Pavilion, check out our Expert Corner videos, or connect with other attendees on our Flash Networking platform.*

#### **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, 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**

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

**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.*

**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**

**Paul Thomsen**, Vice President of Business Development, **Ormat Technologies**

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

**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
<p><b>Can 'Clean and Resilient' Replace Price as the Deciding Factor in Energy Matrix Planning?</b>  <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></p>	<p><b>The Economics of Direct Use: Is an Expansion of Direct Use Geothermal in the Cards?</b>  <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></p>

<p><b>Marcelo Andres Mena Carrasco</b>, Director, <b>Centro de Acción Climática</b>, Pontificia Universidad Católica de Valparaíso and former Minister of Environment, Chile</p> <p><b>Ramón Bueno</b>, Climate Resilience, Equity &amp; Development Specialist</p> <p>Claudio Seebach, Executive Chairman, Generadoras de Chile, <i>session leader</i></p>	<p><b>Rosa N. Escobar</b>, Engineering Manager, <b>LAGEO S.A. de C.V.</b></p> <p><b>Neil Hellings</b>, Managing Director, <b>Oserian Development Corporation Ltd</b></p> <p><b>Carlos Paiz</b>, Director, <b>San Michael Geothermal Project</b></p> <p><b>Carolina Honores</b>, Master in Geophysics, <b>Sernageomin</b></p> <p><b>Elin Hallgrimsdottir</b>, Senior Energy Specialist, <b>World Bank, Infra Energy Global Programs (IEEES) Energy Sector Management Assistance Program (ESMAP)</b>, <i>session leader</i></p>
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### 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 III
<p><b>How Can LAC Administrations Support the Expansion of Geothermal District Heating/Cooling ? What Regulatory Developments are Required?</b></p>	<p><b>Is the Regulatory Gap Holding Back the Geothermal Industry?</b></p>

### 2.00 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
<p><b>Is There A Future for Geothermal Lithium Extraction in Latin America?</b></p> <p><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></p>	<p><b>Are Any New Technologies Emerging that Could Impact the Economic and Risk Mitigation Realities for Geothermal Development?</b></p> <p><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></p>
<p><b>Rod Colwell</b>, Chief Executive Officer, <b>Controlled Thermal Resources</b></p> <p><b>William L. Osborn</b>, Chief Executive Officer, <b>Geothermal Solutions Inc.</b></p>	<p><b>John Redfern</b>, President and CEO, <b>Eavor</b></p> <p><b>Carlos Araque</b>, President, <b>Quaise</b></p> <p><b>Mario Martinez</b>, Manager, Business Development, <b>Ormat Technologies</b></p>

<p><b>Carlos Jorquera</b>, Industrial Engineer, MBA in Energy Economics and MBA in Corporate Management, Founder, <b>Jorka Energy consulting company</b>, <i>session leader</i></p>	<p><b>Alexander Richter</b>, Managing Director, <b>Iceland Renewable Energy Cluster &amp; Iceland Geothermal</b>, and Founder of <b>ThinkGeoEnergy</b>, <i>session leader</i></p>
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## 2.45 End of Day One

### Day Two | September 16<sup>th</sup>

#### 10.00 Doors Open and the GEOLAC Experience Continues

*Before sessions begin, browse the day's schedule in the Reception area, explore the Supporters Pavilion, check out our Expert Corner videos, or connect with other attendees on our Flash Networking platform.*

#### 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)

**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
<p><b>Is Latin America Ready to Take the Next Steps Towards Geothermal Co-Production with Hydrocarbons? What Lessons Can be Drawn From International Experience? What are Expectations for LAC Pilot Projects in the Next Year?</b></p>	<p><b>Geothermal's Role in Making Chile's Aggressive Decarbonization Vision a Reality: Project, Legislation and Policy Updates</b>  <i>Quiz Chile's leading geothermal experts on progress made towards geothermal for power and direct use application.</i></p>

<p><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></p>	
<p><b>Angela Patricia Alvarez Gutierrez</b>, Leader of Renewable Energy Portfolio, <b>EcoPetrol</b>  <b>César Patiño</b>, Regional Director Latin America &amp; Caribe, <b>Society of Petroleum Engineers</b>  <b>Francisco Porturas</b>, President and Founder, <b>Peruvian Geothermal Association</b>  <b>Oscar Llamosa</b>, Communications Director, <b>Colombian Geothermal Association (Ageocol)</b>  <i>session leader</i></p>	<p><b>Rubén Muñoz</b>, Jefe Unidad de Geotermia y Energía Distrital, <b>Ministry of Energy, Chile</b>  <b>Diego Morata</b>, Director, <b>Centro de Excelencia en Geotermia de Los Andes (CEGA)</b>  <b>Christiaan Gischler</b>, Co-Leader Special Group on Mining, Geothermal and Hydrocarbons, <b>Inter-American Development Bank</b>, <i>moderator</i></p>

### 12.30 Behind the Main Stage- Virtual Intermission

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Lounge I	Lounge II	
<p><b>What does Best Social and Environmental Practice Look Like in Latin America and the Caribbean?</b></p>	<p><b>Expectations for Geothermal's Role in a Future LAC Green Hydrogen Economy</b></p>	

### 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
<p><b>Mexico Town Hall: Developer Perspectives on Concession Prospects</b>  <i>Bring your questions to this panel of leading geothermal developers and get their views on expectations for the Mexican market.</i></p>	<p><b>Gender in Geothermal: What Needs to Happen Next?</b>  <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></p>
<p><b>Dr. Carlos Antonio Chalbaud</b>, Business Development Manager, <b>Storengy/Engie Group</b></p>	<p><b>Rosa N. Escobar</b>, Engineering Manager, <b>LAGEO S.A. de C.V.</b></p>

<p><b>Ing. Juan Luis del Valle, Grupo Dragon</b>  <b>Michelle Alejandra Ramirez Bueno</b>, Consultant for Energy Transition, <i>session leader</i></p>	<p><b>Nathyeli Acuna</b>, Gender Specialist, <b>Energy Sector Management Assistance Program (ESMAP) WBG</b>  <b>Karla Hernandez</b>, Technical advisor for the Program on the Promotion of Geothermal Energy in Central America, <b>GIZ</b>  <b>Daniela Blessent</b>, PhD, Professor at <b>Universidad de Medellin</b>, and <b>President, AGEOCOL</b>, <i>session leader</i></p>
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## 2.00 End of Day Two

### Day Three | September 17<sup>th</sup>

#### 10.00 Doors Open and the GEOLAC Experience Continues

*Before sessions begin, browse the day's schedule in the Reception area, explore the Supporters Pavilion, check out our Expert Corner videos, or connect with other attendees on our Flash Networking platform.*

#### 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**

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

**12.15 Behind the Main Stage- Virtual Intermission**

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Lounge I	Lounge II
Tech Talk: A Deeper Dive into the Technologies that will Drive Geothermal Innovation	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, with focus on Bolivia, Ecuador, Honduras, Nicaragua, Peru and El Salvador.*

**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 Close of GEOLAC**