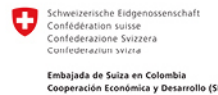




El futuro  
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de Colombia





## **Third International Conference on District Energy An alternative for environmental and sustainable development November 17 to 19, 2021 Join us virtually**

The District Energy Project in Colombia Phase II, the Colombian Association of Air Conditioning and Refrigeration - ACAIRE and its Center for Research and Development of Air Conditioning and Refrigeration- CIDARE invite the academic community, professionals, entrepreneurs, investors, members of the public sector and, in general to all those interested in the knowledge, development and implementation of district energy, to participate in the third edition of the International Congress on District Energy.

The congress has become an event of global scope, which brings together national and international experts, industry and academia, and representatives of the Colombian government, around the district energy as a strategy to mitigate environmental impact and build sustainable cities.



### Objectives

- To disseminate the advantages of thermal districts as a strategy to mitigate the environmental impact and build sustainable cities, eliminating the use of substances that deplete the ozone layer and reducing the emission of greenhouse gases.
- To disseminate the advances worldwide in terms of district energy systems, which will serve as an example and inspiration for the development and implementation of these projects in Colombia.
- To highlight the progress that Colombia and other Latin American countries have made in the development and implementation of district energy.
- To integrate the academic community, industry, the public sector and the financial sector around the development and implementation of district energy systems that contribute to the country's sustainable development goals.
- To promote research on the development of district energy in universities and companies in the country, by providing a space for dissemination and recognition of their developments in this field.

### Topics

- National and international experiences of development and implementation of district energy systems.
- Advances in the strategy for developing district energy systems in Colombia and Latin America.
- Energy maps and urban planning.
- From development to execution: business models and financial mechanisms applicable to district energy systems.



**Christine  
Büsser Mauron**

**Embassy of Switzerland  
in Colombia**

Chargé d'Affaires a.i.



**Carolina  
González Müller**

**United Nations Industrial  
Development Organization –  
UNIDO**

Representative  
for Colombia



**Miguel  
Lotero Robledo**

**Ministry of Mines  
and Energy in Colombia**

Deputy Minister  
of Energy



**Carlos Eduardo  
Correa**

**Ministry of Environment  
and Sustainable Development  
in Colombia**

Minister of Environment  
and Sustainable Development



## KEYNOTE SPEAKER



**Reto  
Dettli**

**Econcept AG**

Co-founder



**Giovanni  
Barletta**

**Colombian Association  
of Air Conditioning and  
Refrigeration – ACAIRE**

President



**Lina  
Escobar**

**Mining and Energy Planning  
Unit – UPME**

Deputy Director of Demand



**Alex  
Saer Saker**

**Ministry of Environment and  
Sustainable Development**

Director of Climate Change  
and Risk Management





**Luis Julián  
Zuluaga López**

**Ministry of Mines  
and Energy**

Director of Electric Energy



**Julien  
Robert**

**Economic Cooperation and  
Development Office (SECO), Embassy  
of Switzerland in Colombia**

Head of Cooperation



**Natalia  
Mayorga Mora**

**Economic Cooperation  
and Development Office (SECO),  
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Deputy Head of Department



**Celia  
Martínez**

**United Nations Environment  
Programme (UNEP)**

Technical Coordinator  
Latin America and Africa





**Nicolás Francisco  
Pintor Cayazzo**

**Ministry of Energy,  
Government of Chile**

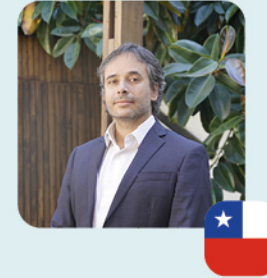
Head of Infrastructure, Building and  
Cities Unit, Sustainable Energy Division



**Juan David  
Franco Peñaloza**

**Mayor's Office of Cartagena**

Secretary of District Planning



**Ignacio  
Santelices**

**Energy Sustainability  
Agency of Chile**

Executive Director



**Jimeno  
Fonseca**

**EBP Consultants**

Project Leader





**Marco  
Matteinni**

**United Nations Industrial  
Development Organization - UNIDO**

Industrial Development Officer



**Kasper  
Koefoed**

**United Nations Development  
Program – UNDP**

Regional Coordinator of the Montreal  
Protocol and COP for Central America  
and the Caribbean



**Peter  
Johansen**

**World Bank**

Senior Energy Specialist

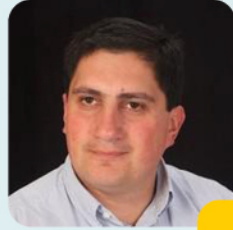


**Cristina  
Mariaca Orozco**

**Project District Energy Colombia**

National Technical Coordinator





**Ricardo  
Baquero Vergara**

**Project District  
Energy Colombia**

National Manager



**Alexander  
Villabona Monsalve**

**CELSIA**

District Energy  
and Cogeneration Leader



**Herman  
Pineda Duque**

**Medellín Public Utility  
Company - EPM**

Professional at the  
Gas Planning Unit



**Gustavo Adolfo  
Cruz**

**Omega Ingenieros SAS**

General Manager





**Maria Claudia  
Paez**

**Convex Efficiency**

Business Management  
Coordinator



**Luz Helena  
Sarmiento**

**Convex Efficiency**

Former Minister of Environment  
and Sustainable Development  
of Colombia



**Santiago  
Marín Restrepo**

**Government of Antioquia**

Maintenance Engineer



**Diego  
Frare**

**Air Liquide Colombia**

Industrial Manager





**Isabelle  
Braly-Cartillier**

**Inter-American  
Development Bank – IDB**

Senior Finance Specialist



**Thomas Stetter  
(Moderador)**

**Economic Cooperation and  
Development Office (SECO), Embassy  
of Switzerland in Colombia**

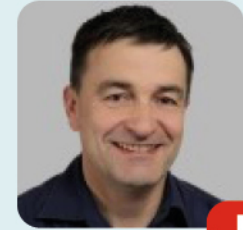
Expert on District Energy



**Antonio  
Di Cecca**

**Engie**

Head of Asset Management  
- District Cooling, Africa,  
Middle East and Asia



**Andreas  
Hurni**

**Energy District  
Association, Switzerland**

Director





**Andreas  
Peter**

**Industrial Works Basel**

Head of the Asset  
Management Heat



**Cesar Augusto  
Millán Martínez**

**Gases del Llano S.A. E.S.P**

Deputy Technical Manager



**Francisco  
Navas**

**Gases del Llano S.A. E.S.P,  
Villavicencio**

Research and  
Development Leader



**Javier  
Pimienta**

**San Francisco Investment**

General Manager



**Juan  
Ontiveros**

**University of Texas at Austin**

Associate Vice President  
of Utilities and Energy  
Management



### III International Conference on District Energy 2021

An alternative for environmental and sustainable development, November 17-19 - Join us virtually

All times listed are Colombia time (COT Time Zone)

Day 1: Wednesday, Nov. 17

Opening session

8:00 - 8:30	Conference registration	
8:30 - 9:00	<p><b>Conference opening</b>          Christine Büsser Mauron, Chargé d'Affaires a.i., Swiss Embassy in Colombia          Carolina González Müller, Representative for Colombia, United Nations Industrial Development Organization - UNIDO</p>	<p>Miguel Lotero, Deputy Minister of Energy, Ministry of Mines and Energy in Colombia          Carlos Eduardo Correa, Minister of Environment and Sustainable Development in Colombia</p>
9:00 - 9:50	<p><b>Keynote address: Sustainable cities and district energy</b></p>	<p>Reto Dettli, Co-founder, Econcept AG</p>
<b>Advances in the district energy strategy in Colombia and Latin America</b>		
10:00 - 11:10	<p><b>Panel discussion: Advances in the district energy strategy in Colombia</b>          Cristina Mariaca, National Coordinator, Project District Energy Colombia (Introduction: Progress of District Energy in Colombia)          Alex Saer Saker, Director of Climate Change and Risk Management, Ministry of the Environment and Sustainable Development          Julián Zuluaga, Director of Electric Energy, Ministry of Mines and Energy</p>	<p>Julien Robert, Head of Cooperation, Economic Cooperation and Development of Switzerland - SECO          Lina Escobar, Deputy Director of Demand, Unidad de Planeación Minero Energética - UPME          Moderator: Giovanni Barletta, President of the Colombian Association of Air Conditioning and Refrigeration - ACAIRE</p>
11:10 - 12:10	<p><b>Panel discussion: This is how district energy advances in Latin America</b>          Marco Mateinni, Industrial Development Officer, United Nations Industrial Development Organization - UNIDO          Celia Martinez, Technical Coordinator Latin America and Africa, United Nations Environment Organization - UN Environment</p>	<p>Kasper Koefoed, Regional Coordinator, United Nations Development Programme - UNDP          Peter Johansen, Senior Energy Specialist, World Bank          Moderator: Natalia Mayorga, Deputy Head of the Economic Cooperation and Development Office (SECO), Embassy of Switzerland in Colombia.</p>
12:10 - 12:15	First day closing remarks	<p>Cristina Mariaca, National Coordinator, Project District Energy Colombia</p>





## PROGRAM

14

Day 2: Thursday, Nov. 18

8:00 - 8:10	Introduction to the second day of the conference	
Central plan siting: urban planning		
8:10 - 8:50	Urban planning strategies	Nicolás Pintor, Head of Infrastructure, Building and Cities Unit, Sustainable Energy Division, Ministry of Energy, Government of Chile
8:50 - 9:30	Panel discussion: District energy systems and sustainable urban planning Ignacio Santelices, Executive Director, Energy Sustainability Agency, Chile	Juan David Franco, Secretary of District Planning, Mayor's Office of Cartagena Moderator: Cristina Mariaca, National Coordinator, Project District Energy Colombia
International and national experiences of energy district implementation		
9:40 - 10:40	Development and implementation of district energy – international examples	Jimeno Fonseca, Project Leader, EBP Consultants
10:40 - 11:40	Panel discussion: District energy in Colombia: successful experiences Alexander Villabona, District Energy and Cogeneration Leader, Celsia Herman Pineda, Professional at the Gas Planning Unit, Medellín Public Utility Company - EPM	Gustavo Cruz, General Manager, Omega Ingenieros S.A.S Luz Helena Sarmiento, Former Minister of Environment and Sustainable Development, and Maria Claudia Páez, Business Management Coordinator, Convex Efficiency Moderator: Ricardo Baquero, National Project Manager, Project District Energy Colombia
11:40 - 12:40	Colombian experiences in connecting institutional and industrial buildings to a district energy system: challenges and benefits	Santiago Marín Restrepo, Engineer, Government of Antioquia, Medellín Diego Frare, Industrial Manager Airliquide - Tocancipá
12:40 - 12:50	Closing remarks	Cristina Mariaca, National Coordinator, Project District Energy Colombia
Research as a driver of innovation in district energy systems (Spanish only)		
14:00 - 14:20	Introduction	Roberto Hincapié, President of the Colombian Association of Engineering Faculties - ACOFI
14:20 - 17:40	Presentation of research and technical papers from national universities and companies	
17:15 - 17:25	Best papers award	
17:25 - 17:30	Closing remarks	Rita Cristina Jaramillo, Director, Centre of research and development of air conditioning and refrigeration - CIDARE



## PROGRAM

15

### Day 3: Friday, Nov. 19

8:00 - 8:10	Introduction to the third day of the conference	
Business models and financial mechanisms applicable to energy districts		
8:10 - 9:00	<b>Green financing for district energy infrastructure</b>	Isabelle Braly-Cartilier, Senior Financial Specialist, Inter-American Development Bank
Residual and renewable energy resources		
09:00 - 10:00	<b>Panel discussion: Using residual and renewable energy resources in district energy systems</b> Antonio Di Cecca, Head of Asset Management - District Cooling, Africa, Middle East and Asia, Engie	Andreas Hurni, Director of the Swiss District Energy Association, Switzerland Andreas Peter, Head of the Asset Management Heat, Industrial Works Basel Moderator: Thomas Stetter, Expert in district energy, Economic Cooperation and Development of Switzerland - SECO
10:00 - 10:50	<b>Colombian experiences</b> <b>Using geothermal energy to improve district cooling efficiency</b> Cesar Millán, Deputy Technical Manager, Gases del Llano S.A. E.S.P., Villavicencio Francisco Navas, Research and Development Leader, Gases del Llano S.A. E.S.P. Villavicencio	<b>District cooling with sea water heat exchange</b> Javier Pimienta, General Director, San Francisco Investments, Cartagena
Research as a driver of innovation in district energy systems		
11:00 - 11:45	<b>Contributions of the academia to the development of district energy</b>	Juan Ontiveros, Associate Vice President of Utilities and Energy Management, University of Texas at Austin
11:45 - 13:00	<b>Second university competition of district energy - award ceremony</b> Juan Ontiveros, Associate Vice President of Utilities and Energy Management, University of Texas at Austin Cristina Mariaca, National Coordinator, Project District Energy Colombia	Rita Cristina Jaramillo, Director, Centre of research and development of air conditioning and refrigeration - CIDARE Winner teams from Colombian universities
13:00 - 13:15	<b>Conference closure</b>	Cristina Mariaca, National Coordinator, Project District Energy Colombia



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