



Workshops ICH

Hotel Intercontinental Medellin

November 25th and 26th, 2017

1. Due diligence for Hydropower Projects

Enhancing Sustainability in energy generation projects

Venue: Hotel Intercontinental Medellin – Salón Bolívar

Objective

Share and analyze with the participants the advantages, disadvantages and associated costs of incorporating good international practices in the planning, execution and operation of sustainable electricity generation projects.

Description

The electrical industry faces a series of challenges, including social and environmental challenges that compel it to implement changes in the planning and development of its energy investments.

This transformation has led to the adoption of good practices in technical, environmental and social areas; what can be labelled a “sustainability approach”, allowing adaptation of standards to different environments, but without neglecting the business approach.

This road to energy sustainability implies the knowledge and application of good practices is embedded in the value chain of the company, from initial processes to the divestiture of productive assets.



The workshop offers participants not only the possibility of becoming familiar with the different methods of incorporating the sustainability approach in their processes, but also feedback from the experiences of companies and the generation of value at the commercial level.

Topics

- Conceptual framework: environment, development, sustainability, resilience, adaptive management, management and success indicators.
- Challenges and trends of the electricity industry in Latin America and the Caribbean: generation, transportation, energy distribution and electrical interconnection.
- Due Diligence for Environmental, Social and Health and Occupational Safety of a generation project. National regulatory frameworks. International standards and standards.
- Tools for assessing sustainability performance: Protocol of Sustainability Evaluation Projects of Hydropower.
- Latin American experiences. Good environmental and social practices: Peru, Colombia and Costa Rica.
- Development of case studies: Process for evaluating the sustainability of hydropower.

Instructors

- ✓ Juan Carlos Paez – IIC - Ecuador
- ✓ Miguel Viquez – ICE - Costa Rica
- ✓ Statkraft – EPM - ISAGEN



PRELIMINARY ACADEMIC PROGRAMME

Day 1: saturday, November 25th 2017

Hour	Activity	Instructor
8:00 - 8:20 AM	Opening of the event	Laura Bull Laura Bull Director of Studies - Regional Director for Latin America. International Center for Hydropower (ICH).
8:20 - 10:00 AM	Conceptual framework: environment, development, sustainability, resilience, adaptive management, management and success indicators.	Juan Carlos Páez Juan Carlos Páez Senior Environmental Specialist, Inter-American Investment Corporation (IIC)
10:15 - 10:30 AM	Coffee	
10:30 - 12:00 AM	Due Environmental, Social and Health Diligence Occupational Safety of a generation project. National regulatory frameworks. International standards and other standards.	Juan Carlos Páez Senior Environmental Specialist - IIC
12:00 - 1:00 PM	Lunch	
1:00 - 03:15 PM	Challenges and trends in the electricity industry in Latin America and the Caribbean: generation, transportation, energy distribution and electrical interconnection.	Juan Carlos Páez Senior Environmental Specialist - IIC
3:15 - 03:30 PM	Coffee	
3:30 - 5:00 PM	Environmental and social risk management in hydroelectric projects	José Felix-Filho Environmental Specialist, Consultant
5:00 - 5:15 PM	Closing words of the day	Laura Bull International Center for Hydropower - ICH.



Day 2: sanday, November 26th 2017

Hour	Activity	Instructor
8:20 - 10:00 AM	Get acceptance from local communities, share the benefits and partner with stakeholders.	José Felix-Filho Environmental Specialist, Consultant
10:15 - 10:30 AM	Coffee	
10:30 - 12:00 AM	Development of case studies. Process of evaluation of the sustainability of hydroelectricity.PH Chaglla, Peru. Phase Implementation	Juan Carlos Páez Senior Environmental Specialist, Inter-American Investment Corporation (IIC)
12:00 - 1:00 PM	Lunch	
1:00 - 3:15 PM	Case study development. Process of evaluation of the sustainability of hydroelectricity.PH Reventazón, Costa Rica. Phase Implementation Development of case studies. Process of evaluation of the sustainability of hydroelectricity.PH Santo Domingo, Colombia Phase Preparation.	Miguel Víquez Director of Environmental Planning, Instituto Costarricense de Electricidad (ICE) Jose Enrique Londoño Director Environmental and Social Management Unit, Public Services Company of Medellín (EMP)
3:00 - 03:50 PM	Coffee	
3:15 – 4:30 PM	Tools for assessing sustainability performance.	José Felix-Filho Environmental Specialist, Consultant
4:30 - 4:45 PM	Closing words of the day	Laura Bull International Center for Hydropower - ICH.



2. Prevention and transformation of socio-environmental conflicts in those of electricity generation projects

Venue: Hotel Intercontinental Medellin – Sal3n C3rdoba

Objective

Provide tools to identify and analyze the different elements that contribute to socio-environmental conflicts, as a basis for the development of strategies for approaching, managing and transforming conflicts.

Description

The electricity industry faces a number of challenges, including the delicate balance between achieving business objectives and relationships with impacted communities, state entities and other stakeholders.

The confluence of interests among all related parties inevitably generates points of disagreement, resistance, opposition or even paralysis at various levels. In some cases, conflicts can lead to violence and adversely affect not only the fulfillment of the company's goals, but also the energy policies of a country.

The workshop provides participants with tools to identify potential conflicts that allow for the development of more assertive approaches to transform disadvantaged situations into opportunities for the benefit of all parties.

Conflict as a social phenomenon is not simply created or destroyed, but is a process that is transformed. It is necessary to be able to identify the stage of the cycle in which it is and design strategies tailored to the actors and specific circumstances.



Even when entering a more peaceful or post-conflict stage, it is necessary to keep the channels of communication open, to enhance trust and to guarantee to the parties the realization of the agreements.

The experiences, the successes and the shortcomings in the handling of the socio-environmental conflicts developed by the Latin American energy industry during the last years, allows for an opportunity to systematize valuable knowledge that can differentiate between success and the failure of a project.

Topics

- Origin, definition and role of socio-environmental conflict in the energy industry
- Elements and categorization of socio-environmental conflicts
- Stages of the socio-environmental conflict cycle
- Strategies to approach conflict from prevention to management
- Importance of strengthening the relationship between all stakeholders
- Indigenous peoples' identity and dependence on natural resources in river basins in relation to hydropower development in South America
- Design of processes according to the analysis of the conflict, context, cycle and predominant elements.
- Dialogue mechanisms for the transformation of conflicts
- Mechanisms to strengthen lasting peace in the post-conflict phase
- Latin American experiences in conflict prevention and management and peacebuilding processes
- Development of case studies



Instructors

- ✓ Ana Margarita Araujo – CEMEDAR - Costa Rica
- ✓ Dr. Stephen Sparkes – STATKRAFT – Norway
- ✓ Miguel Viquez – ICE - Costa Rica
- ✓ Laura C. Bull – ICH – Norway
- ✓ EPM – ISAGEN – CELSIA

PRELIMINARY ACADEMIC PROGRAMME

Day 1: Saturday, November 25th 2017

Hour	Activity	Instructor
8:00 - 8:20 AM	Opening of the event	Laura Bull Director of Studies - Regional Director for Latin America. International Center for Hydropower (ICH).
8:20 - 8:40 AM	Presentation of participants	Ana Margarita Araujo Director CEMEDAR Mediation and Arbitration Center
8:40 - 10:00 AM	Origin, definition and role of socio-environmental conflict in the energy industry.	Ana Margarita Araujo Director CEMEDAR
10:00 - 10:20 AM	Coffee	
10:20 - 12:00 AM	Stages of the socio environmental conflict cycle: group work by case study.	Ana Margarita Araujo Director CEMEDAR
12:00 - 1:00 PM	Lunch	
1:00 - 03:15 PM	Conflict analysis and mapping of stakeholders: teamwork.	Miguel Viquez Director of Environmental Planning Instituto Costarricense de Electricidad ICE
3:15 - 03:30 PM	Coffe	
3:30 – 5:00 PM	Social -environmental Management - Methodologies for the positive transformation of the conflict.	Claudia Álvarez Environmental Director ISAGEN, Colombia.
5:00 - 5:15 PM	Closing words of the day	Laura Bull International Centre for Hydropower - ICH.



Day 2: sunday, November 26th 2017

Hour	Activity	Instructor
8:20 - 10:00 AM	Strategies to approach conflict from prevention to management.	Ana Margarita Araujo Director CEMEDAR
10:15 - 10:30 AM	Coffee	
10:30 - 12:00 AM	Communication techniques for conflict management.	Ana Margarita Araujo Director CEMEDAR
12:00 - 1:00 PM	Almuerzo	
1:00 - 3:15 PM	Design of processes according to the analysis of the conflict, parts, context, cycle and predominant elements.	Ana Margarita Araujo Director CEMEDAR
3:00 - 03:50 PM	Coffee	
3:15 – 4:30 PM	Socioenvironmental Management in Complex Environments Cases: Oriente Antioqueño - Guajira.	Ana Sandoval Socioenvironmental Area Energy Generation., EPM. Colombia.
4:30 - 5:00 PM	Conclusions and recommendations	
	Closing words of the day	Laura Bull International Center for Hydropower - ICH.



3. Sustainable Small Hydro Development

Venue: Hotel Intercontinental Medellin – Sal3n Santander

Objective

The focus of this small hydro course will be on sharing experiences (both good and bad) from programs for development of small hydro in Latin America and other countries, including Norway.

Description

Participants will already know of the benefits which small hydro can bring to the local community and the region if planned successfully, but several subjects will be raised for discussion:

- How can governments facilitate a sustainable development of small and medium scale hydro resources?
- How can the incentives and regulations for private sector involvement in small hydro be designed so that investors are attracted to small hydro despite the risks involved?
- How can the developers be regulated so that local communities share in the benefits and are not suffering from negative impacts?
- How can small hydro supplement intermittent power from solar and wind energy?

This short two-day workshop will not have time to elaborate on small hydro technology, but rather focus on the institutional set-up, licensing and consultation process, subsidies and incentives, environmental and social impacts, partnership models and financing requirements of small hydro programs around the world. The workshop offers participants feedback from the experiences of many countries' small hydro programs.

Topics

- The roles of government, the regulator and the single buyer for small hydro



- Integrating small hydro and other renewables into existing power systems
- Gaining acceptance of local communities and benefit sharing
- Financial institutions safeguards and sustainability
- Cost reduction efforts and cost estimating of small hydro
- Environmental flows and cumulative impacts of many small hydro projects in Norway.
- Latin-American experiences with small hydro programs: Brazil, Peru, Colombia and Costa Rica.
- Norwegian small hydro – Tax relief and EI-certificates: a Norwegian/Swedish market based system for subsidizing renewables (incl. small hydro)

Instructors

- ✓ Brian Glover – Bkraft – Norway
- ✓ Jose Felix Filho – Brazil
- ✓ HVM, CESLSIA, GEN + ICE



PRELIMINARY ACADEMIC PROGRAMME

Day 1: saturday, November 25th 2017

Hour	Discussion subjects	Lecture Topics
9:00 - 10:30 AM	How can governments facilitate a sustainable development of small and medium scale hydro resources?	The roles of government, the regulator and the single buyer for small hydro
10:30 – 11:00	Coffe Break	
11:00 – 12:30 M	Latin-American experiences with small hydro programs	What makes small hydros work in some countries, not in others?
12:30 – 1:30 PM	Lunch	
1:30 – 3:00 PM	How can the incentives and regulations for private sector involvement in small hydro be designed? so that investors are attracted to small hydro despite the risks involved?	Incentives needed or not? Norwegian small hydro – Tax relief and El-certificates
3:00 - 3:30 PM	Coffe Break	
3:30 – 5:00 PM	Cost reduction efforts and risk management	Cost estimating of small hydro Diversified investment portfolio



Day 2: sunday, November 26th 2017

Hour	Discussion subjects	Lecture Topics
9:00 - 10:30 AM	How can the developers be regulated so that local communities share in the benefits and are not suffering from negative impacts?	Financial institutions safeguards and sustainability Gaining acceptance of local communities and benefit sharing
10:30 – 11:00	Coffe Break	
11:00 – 12:30 M	How can small hydro supplement intermittent power from solar and wind energy	Integrating small hydro and other renewables into existing power systems and local communities
12:30 – 1:30 PM	Lunch	
1:30 – 3:00 PM	Environmental flows and downstream users Cascade development and cumulative impacts of many small hydros	Environmental releases. When and how? Bypass valves for downstream flow security?
3:00 - 3:30 PM	Coffe Break	
3:30 – 5:00 PM	Can small hydro provide additional benefits?	Additional benefits, cases from Norway and Latin America



4. [Sedimentation Workshop World Bank, full program](#)
[Click here](#)



WORLD BANK GROUP

Venue: Hotel Intercontinental Medellin - Salón Sucre