

Hydropower & Regional Development Workshop

Kuching, Malaysia | 20 May 2013

Organizers:





Welcome

Dear Participant

On behalf of the International Hydropower Association (IHA), thank you for joining us in Kuching for the Hydropower & Regional Development Workshop, co-organized with the International Finance Corporation (IFC), the World Bank, the Asian Development Bank (ADB) and the Inter-American Development Bank (IDB).

This event is the latest in a series of workshops led by IHA with the support of multilateral actors in various locations around the world. For example, in 2011 events were convened in Africa and Latin America. This was followed by a Business Leaders Forum in Kuching and a Regional Leadership Forum in Rio de Janeiro in 2012. The series aims to foster knowledge and encourage exchanges between stakeholders in the energy and water sectors, while addressing the important contribution that hydropower makes to regional cooperation and development. Participants have included multilateral and private financial institutions, planning agencies, developed and developing country governments, civil society and business organizations.

Hydropower involves a range of stakeholders, often across local, provincial, national and international boundaries – both physical and political; this adds complexity to any hydropower project. At the same

time, hydropower has the potential to catalyse broader regional economic and social development. This series of events explores these topics through dialogue and exchange of experiences, helping to build awareness and knowledge of successful practices.

We are very pleased to be collaborating with the World Bank, IFC, ADB and IDB on this workshop. This workshop builds on the partnerships established with these organisations through IHA's programme of activities, including the Hydropower Sustainability Assessment Protocol and research on GHG fluxes from freshwater reservoirs. Multilateral actors such as these bring a history of promoting cooperation among countries, and expertise in the complex negotiations and agreements necessary to optimize regional cooperation and development. Together with these organizations, we aim to promote sustainable practices in hydropower, through delivery of our respective missions and work programmes.

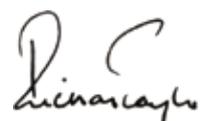
We look forward to sharing experience on the topic of regional development and cooperation, and learning from the network of participants taking part in this workshop.

Sincerely



Refaat Abdel-Malek

IHA President



Richard M. Taylor

IHA Executive Director

Testimonials

Hydropower remains an abundant renewable energy resource and is relevant for meeting the Latin America and Caribbean region's electricity demand trends. Most notably, in some of the region's countries, such as Brazil, Colombia, Ecuador, and Peru, the realization of a relatively small percentage of total available potential could entirely cover electricity demand, and, in most

In a world of growing demand for clean, reliable, and affordable energy, the World Bank Group recognizes hydropower as a key way to deliver growth, reduce poverty, and achieve sustainable development. The World Bank Group views its support of hydropower as a way to help low- and middle-income countries to meet access to energy needs and achieve national economic advancement. Beyond contributing to these essential gains, hydropower can make powerful contributions

The Energy Policy (2009) of the Asian Development Bank (ADB) recognizes hydropower as an affordable, renewable, reliable and clean energy. It also acknowledges that hydropower projects, especially those with reservoirs, can be complex and environmentally and socially sensitive. The Energy Policy, therefore, calls for the appropriate implementation and monitoring of environmental and social safeguards as per ADB's Safeguard Policy Statement (2009) to minimize adverse environmental and social impacts. ADB believes that

countries in the region, it could represent an important share in energy supply. The IDB supports governments, public institutions, civil society organizations and private sector companies in the design and implementation of sustainable hydropower projects by providing financing, technical assistance and knowledge services

Inter-American Development Bank

to regional cooperation, inclusive development, and improved environmental and social sustainability. The World Bank Group is committed to leveraging its capital by bringing more private sector financing into the sector. IFC will ramp up its hydropower business, MIGA will scale up its guarantee support, and the World Bank will reinforce its work to facilitate regional collaboration and create an enabling environment for private sector investments in hydropower.

World Bank Group (WB and IFC)

hydropower, if planned, designed, constructed and operated in an inclusive and sustainable manner, can have significant developmental impacts both at the national and regional levels. Examples of hydropower projects financed by ADB include Nam Theun 2 and Theun Hinboun (both in Lao PDR; export to Thailand) and Batang Ai (Malaysia). Projects currently being financing include Song Bung 4 (Viet Nam) and Dagachhu (Bhutan; export to India).

Asian Development Bank

Agenda

This workshop is organized by the International Hydropower Association (IHA), in cooperation with the International Finance Corporation (IFC), the World Bank, the Asian Development Bank (ADB) and the Inter-American Development Bank (IDB). The event aims to foster knowledge and encourage exchanges between stakeholders in the energy and water sectors in various world regions. It builds on a series of previous events in Africa, Asia and Latin America and addresses the important contribution that hydropower makes to regional cooperation and development. Participants from multilateral and private financial institutions, planning agencies, government, civil society and business organizations from various regions will be exploring the role of hydropower in regional development. The workshop will identify key indicators of success in three elements of regional cooperation on hydropower. Highlights of the workshop will be presented in session 2b at the IHA World Congress.

12:00-12:50 Introduction

Welcome: Mr Roger Gill, International Hydropower Association

Welcome and Local context: Mr Torstein Sjøtveit, Sarawak Energy Berhad

Crosscutting aspects of regional development: Mr Raghuvveer Sharma, International Finance Corporation

Previous discussions on regional cooperation: Mr Emmanuel Boulet, Inter-American Development Bank

Agenda and workshop format: Ms Kate Lazarus, International Finance Corporation

12:50-13:35 Lunch

Following lunch, participants will be split into smaller groups and given the opportunity to choose two of the three topics below which will be take place at 13:35 and repeated at 14:55. Each discussion will be documented by a rapporteur. All the participants will gather again in plenary at the end of the day to discuss the findings presented by the rapporteurs.

Sharing experience 1.

13:35-14:40 Topic 1: “Bringing markets to the resource”

Hydropower can be a powerful engine for economic growth, especially when linked with industries that seek low-carbon energy supply. Traditional and new power-intensive industries, such as metal, manufacturing, consumer goods, and internet data centres, are particularly likely to demand low-carbon energy. How to successfully link generation with these industries’ demand for power? This session will present recent case studies and will discuss their regional impacts.

Chair: Mr Jean-Michel Devernay, World Bank

Case study: Iceland, Dr Oli Sveinsson, Landsvirkjun

Case study: SCORE, Mr Chang Ngee Hui, State Planning Unit

Rapporteur: Ms Tracy Lane, International Hydropower Association

13:35-14:40 Topic 2: “Regional interconnections”

Around the world, different regional strategies are applied to hydropower development; from bi-national interconnections to regional-level power trading. When does hydropower act as a catalyst for collaboration between parties, and which specific challenges does it pose for regional cooperation? Recent cases will be presented, with an emphasis on the political and technical framework needed for action and success.

Chair: Mr Anthony Jude, Asian Development Bank

Case study: India and Bhutan, Mr Kaoro Ogino, ADB and Mr Karma P. Dorji, Government of Bhutan

Case study: Canada and the U.S., Mr Ken Adams, Manitoba Hydro

Rapporteur: Mr Isaac Kirk Koffi, Volta River Authority

13:35-14:40 Topic 3: “River basin perspectives”

Many different actors are involved in river basin development, including river basin commissions, riparian governments, private developers, civil society, etc. Which elements facilitate dialogue between these actors, and how can a satisfactory river basin development plan be achieved? Participants will also assess the role of the private sector, in particular when it is called upon to act in the absence of regional coordination.

Chair: Mr Simon Krohn, Mekong River Commission

Case study: Mekong, Dr. Pech Sokhem, M-POWER

Case Study: Three regional perspectives, Mr Juan Quintero, International Finance Corporation

Rapporteur: Mr Sameer Singh, International Finance Corporation

14:40-14:55 Coffee Break

14:55-16:00 Sharing experience 2.

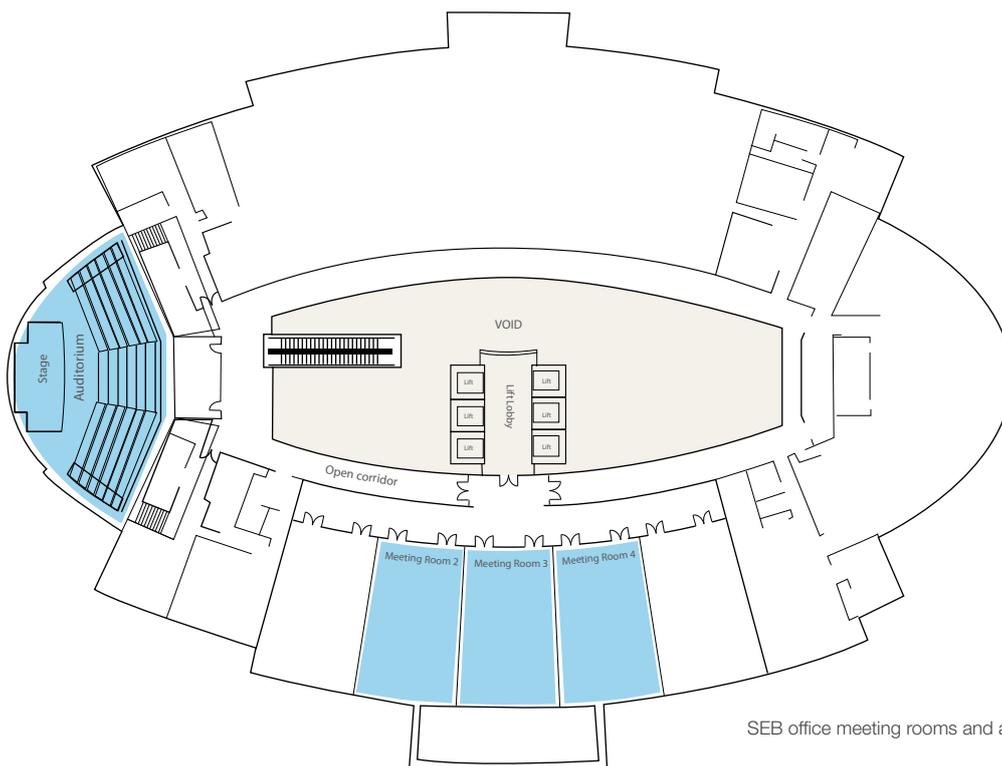
- Topic 1: "Bringing markets to the resource"
- Topic 2: "Regional interconnections"
- Topic 3: "River basin development"

16:00-16:45 Summary by rapporteurs

- Ms Tracy Lane, International Hydropower Association
- Mr Isaac Kirk Koffi, Volta River Authority
- Mr Sameer Singh, International Finance Corporation

16:45-17:00 Conclusion by IFC and IHA

- Mr Raghuvver Sharma, International Finance Corporation
- Mr Roger Gill, International Hydropower Association



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Hydropower & Regional Development Workshop
 6 PROGRAMME

Regional workshops



Addis Ababa, Ethiopia 2011

The two-day Hydropower for Sustainable Development Workshop took place on 31 March – 1 April 2011 in Addis Ababa, Ethiopia. It was hosted by IHA in collaboration with the Ethiopian Ministry of Water and Energy, the African Union Commission and the United Nations Economic Commission for Africa. High-level policy makers, regional planners, civil society representatives, industry leaders and the financial sector gathered to discuss solutions for sustainable development in Africa, and the role that sustainable hydropower can play in solving water and energy challenges. The workshop concluded in a set of recommendations, which called for the role of hydropower to be further advanced in Africa by catalysing improvements in water security, nurturing the development of multi-purpose water infrastructure, and strengthening and expanding regional power transmission systems.



Iguassu, Brazil 2011

Preceding the IHA World Congress 2011 in Iguassu, Brazil, this one-day Regional Cooperation for Hydropower Development workshop was organised by IHA in collaboration with the World Bank and the Asian Development Bank. The programme focussed around four themes: accessing distant markets, regional power trading, hydropower on transboundary rivers and structuring for public and private sector involvement. The workshop outcomes concluded that hydropower, in the context of regional development, is extremely important in progressing equitable benefit-sharing, trade and good relations between riparian nations. River-basin initiatives, power pools and economic communities are fundamental ingredients for regional development.



Kuching, Sarawak, Malaysia 2012

The Regional Hydropower Business Forum was organised in May 2011 by IHA in association with Sarawak Energy Berhad (SEB) in Kuching, Sarawak, Malaysia. Around 100 high-level executives from across the Asia-Pacific region attended this event, which provided insight in hydropower sustainability hydropower's role in driving regional integration and development. Topics also included appropriate regulatory frameworks, human resource skills within the hydropower sector and the evolving role of hydropower in the changing energy mix.



Rio de Janeiro, Brazil 2012

The Regional Leadership Forum on advancing sustainable hydropower in Latin America and the Caribbean took place from 12 – 13 November 2012 in Rio de Janeiro, Brazil. It was organised under the auspices of the InterAmerican Development Bank (IDB) with support by IHA, Odebrecht Energy and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ). The forum gathered high-level representatives of the regional hydropower sector. Its aim was to promote strategic alignment on the strategy for advancing hydropower's role in meeting climate, energy, water, and development challenges in a sustainable way.

Organizers



IHA

The International Hydropower Association (IHA) is a non-profit organization, working with a network of members and partners to advance sustainable hydropower. IHA's mission is to build and share knowledge on the role of hydropower in reliable energy systems, responsible freshwater management and climate change solutions. IHA champions continuous improvement in the hydropower sector through dialogue with all stakeholders. Membership is open to individuals and organisations that support IHA's mission. IHA networks include: public and private companies, governments, NGOs, financial institutions, communities and academia.

For more information, [visit www.hydropower.org](http://www.hydropower.org)



IFC

IFC, a member of the World Bank Group, is the largest global development institution focused exclusively on the private sector. We help developing countries achieve sustainable growth by financing investment, mobilizing capital in international financial markets, and providing advisory services to businesses and governments. In FY12, our investments reached an all-time high of more than \$20 billion, leveraging the power of the private sector to create jobs, spark innovation, and tackle the world's most pressing development challenges.

For more information, [visit www.ifc.org](http://www.ifc.org)



World Bank

The World Bank is a vital source of financial and technical assistance to developing countries around the world. The World Bank's mission is to fight poverty for lasting results and to help people help themselves and their environment by providing resources, sharing knowledge, building capacity and forging partnerships in the public and private sectors.

For more information, [visit www.worldbank.org](http://www.worldbank.org)



IDB

The Inter-American Development Bank (IDB) is the main source of multilateral financing and expertise for sustainable economic, social and institutional development in Latin America and the Caribbean. We support efforts by Latin America and the Caribbean countries to reduce poverty and inequality. We aim to bring about development in a sustainable, climate-friendly way.

For more information, [visit www.iadb.org](http://www.iadb.org)



ADB

The Asian Development Bank is an international development finance institution whose mission is to help its developing member countries reduce poverty and improve the quality of life of their people. Headquartered in Manila, and established in 1966, ADB is owned and financed by its 67 members, of which 48 are from the region and 19 are from other parts of the globe.

For more information, [visit www.adb.org](http://www.adb.org)





Visit IHA online: www.hydropower.org

