## Consultation on MRCs Hydropower Programme 25-26 September 2008



## Sustainability assessment : an industry approach

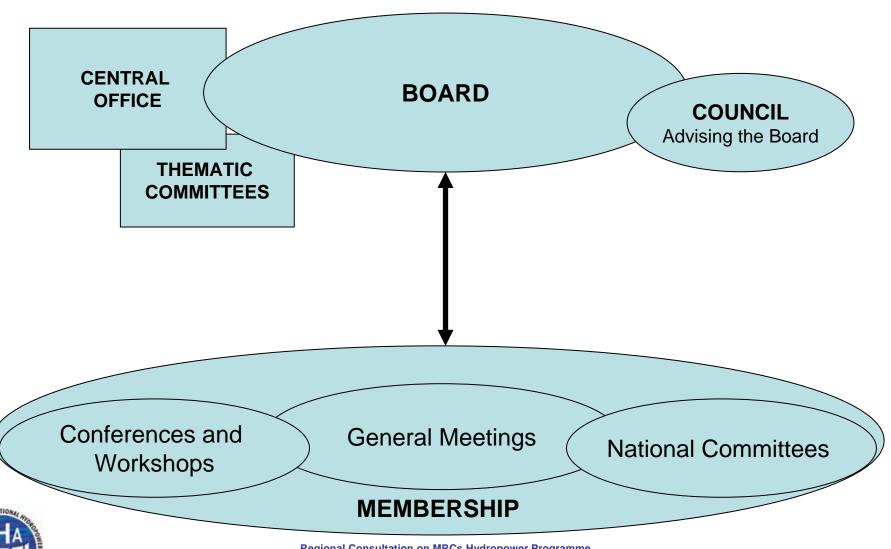
Jean-Michel Devernay Vice President International Hydropower Association

## International Hydropower Association (IHA)

- Non-governmental mutual association of organizations and professionals working or studying in the hydropower sector.
- Founded in 1995, under the auspices of UNESCO, to advance knowledge on all aspects of hydropower and to promote good practice.
- Mission: Advancing Sustainable Hydropower
- Vision: Advancing hydropower's role in meeting the world's water and energy needs by:
  - Championing continuous improvement and <u>sustainable</u> <u>practices</u>
  - Building consensus through <u>strong partnerships</u> with other stakeholders
  - Driving initiatives to increase the contribution of the renewables sector, especially hydropower.



#### IHA Governance framework



Regional Consultation on MRCs Hydropower Programme Vientiane, 25-26 September 2008

















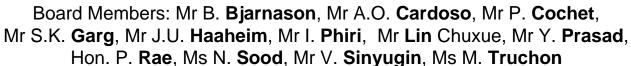








President: Dr R. **Abdel-Malek** Exec. Director: Mr R.M. **Taylor**Vice Presidents: Mr K.R.F. **Adams**, Mr J-M. **Devernay**, Mr R. **Gill**,
Dr J.L. **Karmacharya**, Dr T. **Moss**, Dr H.P. **Schiffer** 























#### IHA Membership

18 Sponsors...



...and 99 Corporate Members

in more than 60 countries

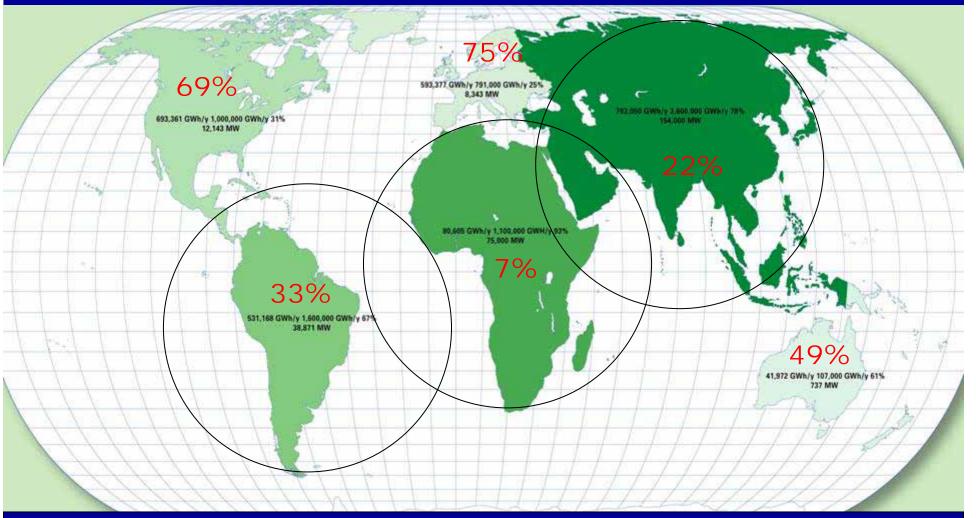


## IHA Work Programmes

- 1. Water, Energy & Climate Change
- 2. Hydropower Sustainability
- 3. Hydropower Financing

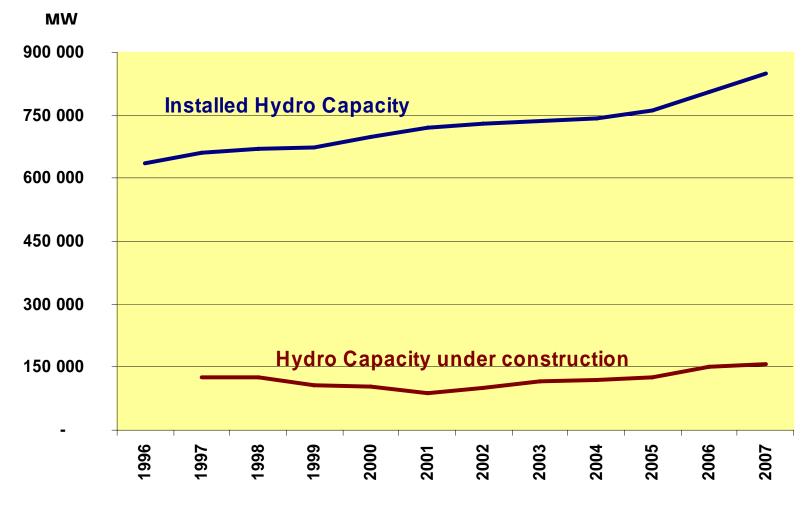


# World's realistic potential developed: 33 % Current hydro production: 2740 TWh/y Realistic potential production: >8000 TWh/y



Current hydro generation: Africa = 80 Asia = 800 Australasia = 43 Europe = 570 N/C America = 700 S America = 550 (TWh/year)

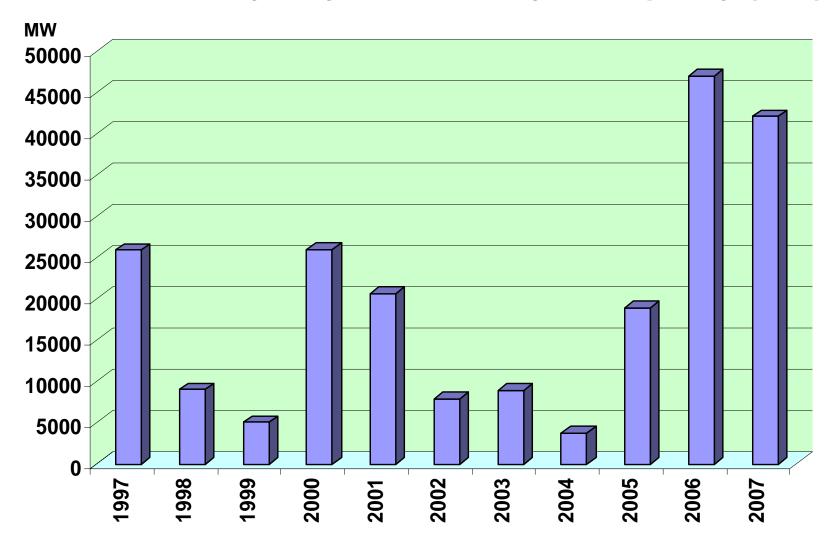
## **Worldwide Hydropower Trends**





Source: Hydropower & Dams yearbook

## Worldwide yearly additional hydro capacity (MW)





Source: Hydropower & Dams yearbook

## Why is the Industry interested in sustainability?

- 1. Corporate social & environmental responsability
- 2. Risk reduction
- 3. Financing



## What's the IHA's approach to sustainability?

- 1. Strive to transform risks into opportunities
- 2. Be proactive and pragmatic
- 3. Work with others



## The common ground for the post-WCD dialogue

Vientiane, 25-26 September 2008

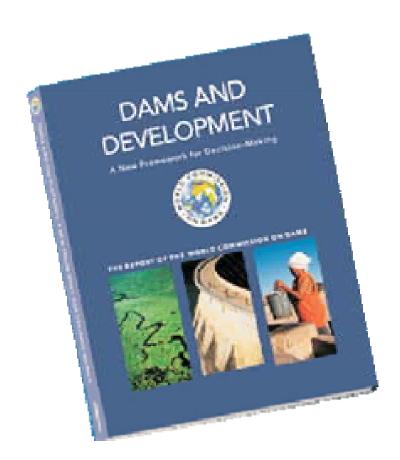
#### **Core Values**

- Equity
- Efficiency
- Participatory decision-making
- Sustainability
- Accountability

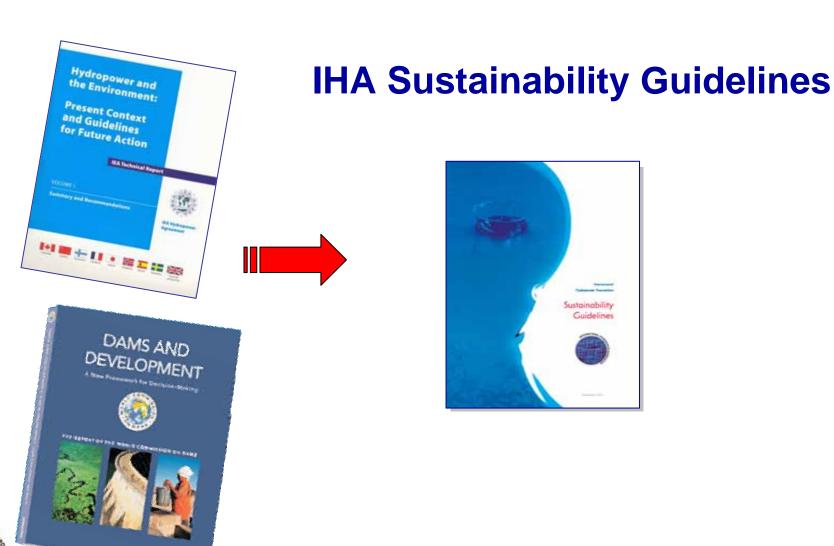
### **Strategic Priorities**

- Gaining public acceptance
- Comprehensive options assessment,
- Addressing existing dams,
- Sustaining rivers and livelihoods,
- Recognizing entitlements and sharing benefits,
- Ensuring compliance,





# A much needed initiative from the Hydropower sector



Regional Consultation on MRCs Hydropower Programme Vientiane, 25-26 September 2008

#### The I HA GUI DELI NES

- Were elaborated through a consultative process (WB, WWF, ...)
- Are widely recognized by
  - ➤ United Nations (UNESCO, UNEP, ...)
  - **≻OECD**
  - >Lenders
  - ➤ Governments
  - ➤ NGOs such as WWF, OXFAM,...
- Provide a framework for good practices, consistent with the WCD core values and strategic priorities
- Cover the 3 pillars of sustainable Development
- Concern all actors of Sustainable Development (governments, industry, civil society, consumers,..) and their collective responsability
- Provide a pragmatic and rigourous tool, which can really be used by all actors of hydro projects

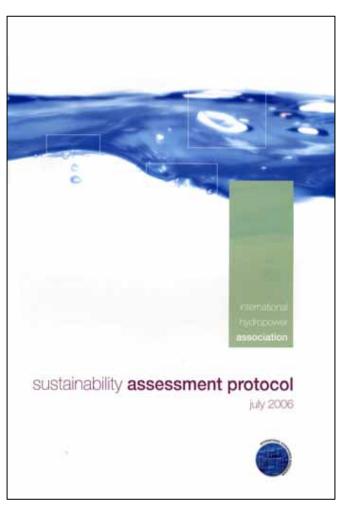


## A practical tool : the Sustainability Assessment Protocol

- Volume A : New Energy projects
- Volume B : Assessing New Hydro Projects
- Volume C : Assessing Operating Hydropower Facilities

#### For each volume:

- Revue of 20 key aspects of sustainability
- Scoring of each aspect (0 à 5) based on Objective Evidence



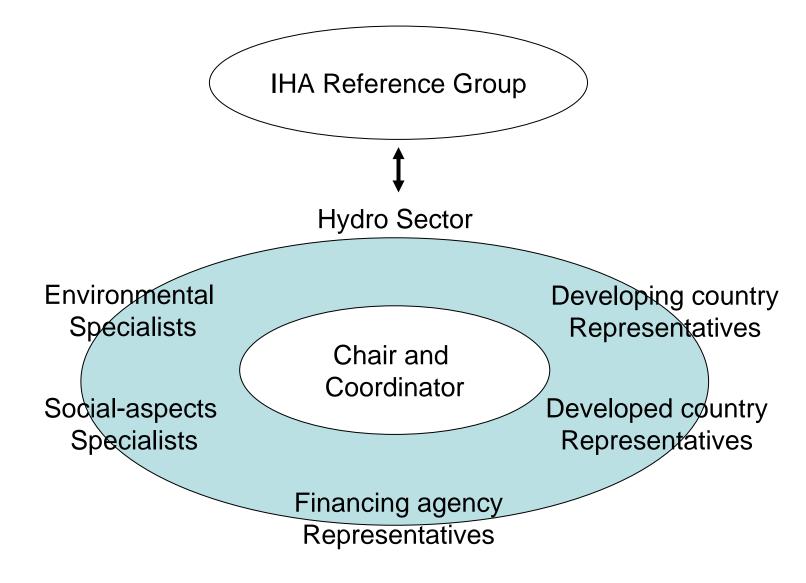


### **Sustainability Assessment Protocol – Training Workshops**

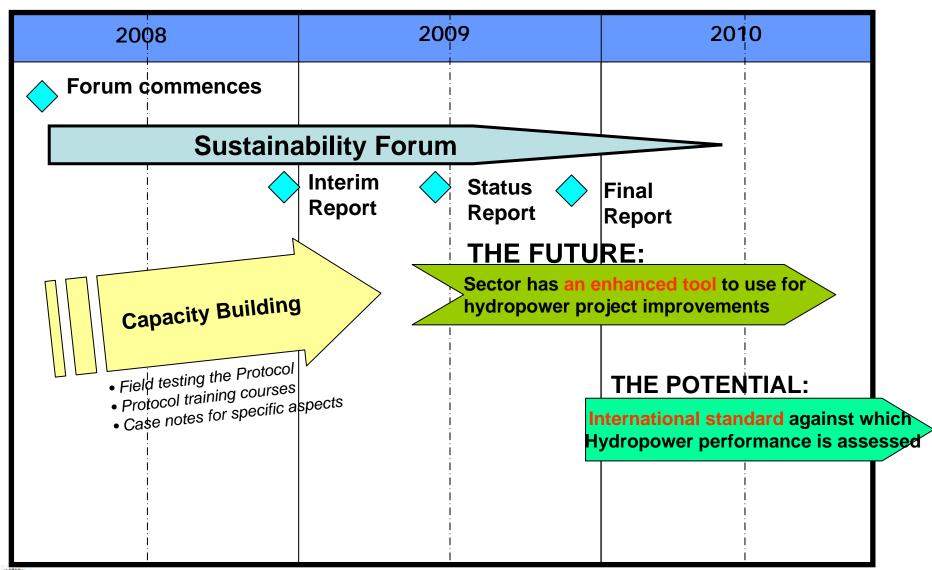
Antalya (May 2007); Chattanooga (July 2007); Winnipeg (March 2008), Chicago (July 2008), Iguassu (October 2008), ...



## **Hydropower Sustainability Assessment Forum**









## Members of the Hydropower Sustainability Assessment Forum

#### Developing Countries

- Dr Yu Xuezhong, Institute of Water Resources and Hydropower Research, PR China
- Mr Israel Phiri, Manager PPI, Ministry of Energy and Water Development, Zambia

#### Developed Countries

- Mr Hans Olav Ibrekk, Project Manger Environment, Norad, Norway
- Prof Gudni A Johannesson, Director General, National Energy Authority, Iceland

#### Environmental Aspects

 Mr David Harrison, Senior Advisor, Global Freshwater Team, The Nature Conservancy



Dr Joerg Hartmann, Lead, Dams Initiative, WWF

## Members of the Hydropower Sustainability Assessment Forum

#### Social Aspects

- Mr Michael Simon, Lead, Development Banks/NRM, Oxfam
- Dr Donal O'Leary, Water Sector Specialist, Transparency International

#### Economic (Financing) Aspects

- Ms Courtney Lowrance, Environmental Specialist, Equator Principles Financial Institutions Group
- Ms Daryl Fields, Senior Water Resources Specialist, World Bank (observer)

#### Hydro Sector

- Dr Refaat Abdel-Malek, President, International Hydropower Association (IHA)
- Mr Andrew Scanlon, Coordinating Author, IHA Sustainability Assessment Protocol



#### IHA Protocol Reference Group

#### **Role of the Reference Group:**

- bring industry experience to the Forum
- make sure that proposed changes are practical and reasonable
- → act as a sounding board for the proposals discussed in the Forum

First meeting: July 14th 2008, Sacramento

#### **Composition of Reference Group:**

•	D	N	V
			•

EdF

EON

Eskom

HEA

Hydrofocus

Hydro Tasmania

Hydro QuebecItaipu

Landsvirkjun

Manitoba Hydro

MWH

NVE

SN Power

Statkraft

Suez

Three Gorges Corporation

• ... open to further members





## **Acknowledging Good Practice**

















### **Sustainable Hydropower Website**







## IHA Congress on Advancing Sustainable Hydropower

#### 22-26 June 2009 Reykjavik, Iceland



















www.ron-attance.org





































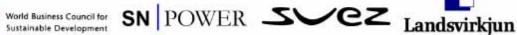


















(Partners from IHA Congress 2007)





## Thank you for your attention!



www.hydropower.org

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