Session:

Future energy mix
How will it influence hydro development?

Hon. Peter Rae A.O.
International Renewable Energy Alliance

For more information: www.hydropower.org/congress
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Contribution to Panel Discussion – “Future Energy Mix”

by

HON. PETER RAE A.O.

HON CHAIRMAN
International Renewable Energy Alliance (REN ALLIANCE) since 2004

Vice Chairman- REN 21 (2008-2013)
Chairman of Hydro Tasmania(1993-2004)
INTERNATIONAL HYDROPOWER ASSOCIATION

Formed in 1995 as interest in alternative energy was developing strongly and concern over climate change grew.

1987  BRUNTLAND REPORT
1992  RIO EARTH SUMMIT
1992  UNFCCC
1997  KYOTO PROTOCOL
2001  IPCC REPORT ON CLIMATE CHANGE
2002  WSSD
2004  IREC in BONN

as well

NOVEMBER 2000 - WORLD COMMISSION ON DAMS REPORT
They were heady days negotiating this – late into the night

The following was an extremely important inclusion, only after much “on the floor” and even more “off the floor” negotiation for the inclusion of hydropower

and so, the Declaration said in a footnote

“In the context of *renewables 2004*, renewable energy sources and technologies include:

- Solar energy,
- Wind energy,
- **Hydropower,**
- Biomass energy including biofuels
- and
- Geothermal energy”

Inter alia it called for a policy analysis and promotion, a growth/deployments program **AND** a global policy network.

So REN21 (the network) and ultimately IRENA came about.
REN 21

Was formed as direct follow through on the Bonn Declaration with a small committee to draft up its objectives and structure.

As the REN Alliance representative I have been on the Steering Committee since we drafted it all and was a Vice Chairman from 2008 to 2013.

In 2013 the REN Alliance achieved our objective of having each of the REN Alliance partners become members of the Steering Committee.

IRENA

As well, the REN Alliance has been a strong voice, and played a part in structuring IRENA the intergovernmental organisation now with 140 national members and with another 32 in the process of accession.

This, in conjunction with REN 21, provides a tremendous base for the development of worldwide renewable energy policy and deployment.
REN ALLIANCE

Formed in Bonn 5th June 2004
At the conclusion of the Bonn IREC and Declaration I convened a meeting comprising:
I.H.A. - I.S.E.S. - W.W.E.A. as the original members
then
I.G.A. joined in 2008
W.B.A. joined in 2009

It was formed to provide a unified voice for the whole renewable energy industry rather than the “mine’s better than yours” arguments. Our function was to work together to enhance, promote and deliver R.E. and to participate in:-

international policy development, and promotion meetings and, in particular, preparation of reliable statistics and to educate in relation to R.E. and to join in implementing the BONN Declaration.
REN Alliance has organised major side events at most of the major international meetings including the UNFCCC Cops, the IRECS, World Future Energy Forums, etc.

As well the partners have an “All the Renewables” session in the Conferences.

It has also played an important driving role in the formation of the “100% Renewables” movement.
The REN Alliance key message is that of the

**SYMPHONY OF RENEWABLES**

be they geothermal, wind, hydro, solar, bio-mass or marine performing their roles – all have a valuable and important part to play in

(1) reducing dependence on fossil fuels, (2) providing security of supply within national borders, (3) helping achieve the millennium development goals and (4) cutting greenhouse gas emissions.

But Hydropower has also a vital role in water storage and management for a world of even increasing demand for fresh water.

also -

Hydropower storage provides the means to overcome the intermittency and variability of some other forms of renewable power generation.
And so we see that the answers to
(1) climate change, (2) electricity for the developing world and generally and (3) security of energy supply
an energy sustainability, is to be found.

Shining from the sky
Growing on the land
Steaming from the earth
Hidden in the waves
Blowing in the wind

AND

Flowing in the streams

With the REN Alliance quietly at the helm

THANK YOU
And so we see that the answers to
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