

COP22 side-event “Paris Pact on water and adaptation to climate change: Results and perspectives a year after COP21”, Green zone – Civil society area, Bab Ighli, avenue Mohammed VI, Marrakech, 8 Nov. 2016

ADAPTATION TO CLIMATE CHANGE IN THE FIELD OF HYDROPOWER IN CHINA

**Ms. Xuejin Zhang , Division Director
Hydropower Bureau, Ministry of Water Resources, China
Muriel@mwr.gov.cn**

Hydro Situation in China

China is the biggest developing country with a rising energy demand while now over 60% of energy supply depends on the fossil fuels.



According to China-US joint announcement on climate change in 2014, China intends to achieve the peaking of CO₂ emissions around 2030 and to tries to peak early and intends to increase the share of non-fossil fuels in primary energy consumption to around 15% by 2020 and around 20% by 2030.

China has ratified the Paris Climate Change Agreement.

What Hydro Has Achieved in China

1. Further development basis:

The potential, the installed capacity and the development scale under construction of hydropower in China rank the 1st place in the world.

3. Hydro equipment and technology:

The manufacturing of 800MW radial-axial flow turbine, the production of 35MW package unit for pumping storage unit maintain the top level in the world...

2. Poverty reduction:

The small hdyropower development has accumulatively enabled more than 300 million people to have access to the electricity.

4. Energy conservation and emission reduction, coping with the climate change and optimizing the energy structure...as well as flood prevention and drought control, irrigation, navigation....

5. China has been carrying out the international cooperation in the field of the hydro planning, design, construction, operation and investment with more than 80 countries.

Objectives of Hydro in the Future



By 2020, China's installed hydropower capacity will reach 360~420 GW, among which around 80 GW are small hydro installed capacity.

By 2020, 2030 and 2050, the installed power capacity in China would be respectively be 1.96TW, 3.02TW and 3.98TW, and the apporportion of **the non-fossil electricity will respectively be 39%、 49% and 62%.**

Green Hydro Development Plan in China

1. Green Idea will be accomplishing with the entire process of the planning, design, construction and operation of hydropower development.

3. Functional zoning of hydro:
--forbidden development zone
--restricted development zone
--optimized development zone

2. Continuing the poverty alleviation:

The investment in small hydro development from central government is transferred to be the equity of the poor people.

4. Persisting in the preferential policies on renewable energy development:

---System of guaranteeing the purchasing of electricity generated by renewable energy resources in full amount...
---continuing the renewable energy development fund set up in 2006...

5. Facilitating all-direction international cooperation particularly in the field of the policies and rules exchange, technology and personnel exchange as well as environment protection exchange...