

## Conference Daily, Wednesday 15 January 2014

# Welcome!

...and thank you for some interesting discussions yesterday. We had some challenging questions and well formed answers, what was your highlight? More than the lunch break, we hope. Don't forget to email or tweet us, extracts from the conference are constantly being uploaded by a highly dedicated team of well trained ears....

**Today....**the daily contains our highlights from yesterdays talks, including key messages and future expectations what to expect today and a summary of the field visits tomorrow, which will provide a genuine insight into some of the realities of Water and Energy technology.



The daily's are all available to read and download online:

[http://www.un.org/waterforlifedecade/water\\_and\\_energy\\_2014/conference\\_daily.shtml](http://www.un.org/waterforlifedecade/water_and_energy_2014/conference_daily.shtml)

**"What if the sun doesn't shine, what if the wind doesn't blow? The sun is always shining somewhere."** Iris Cheng, Climate & Energy Campaigner, Greenpeace International

## Communication Update

Communication has been a key message so far in the conference, as we find new ways to engage with and express strategies and results. The road to **WWD** has been paved with a strong web presence, which has communicated the events of the water-energy nexus. We continue to encourage input and feedback and endeavour to provide as much information as possible.

**Presentations** - an invaluable resource of information demonstrating water-energy initiatives and case studies from around the World. All presentations are continuously being updated and are available at our slideshare channel -

<http://www.slideshare.net/WaterforLife/>

**Feedback forms** - we strive to improve the way that information is presented, please tell us your thoughts and feelings about your conference experience so we can continue towards our World Water Day goals together, a feedback form will be distributed today, please take the time to complete it.

### Side Event World Water Day Teaser

For those of you that didn't sneak out for coffee a reminder of the preparation and key issues

#### In Preparation

- The WWD website provides graphic designs, information, links and a meeting space for a worldwide audience
- Zafar Adeel says **"World Water Day is a global event"** social media is playing a big part with facebook and twitter exposure
- Preparatory events help initiate involvement and contribution

**"WWD is not just one event, there are literally thousands of events worldwide which are connected"** Zafar Adeel, Director of the United Nations University Institute for Water

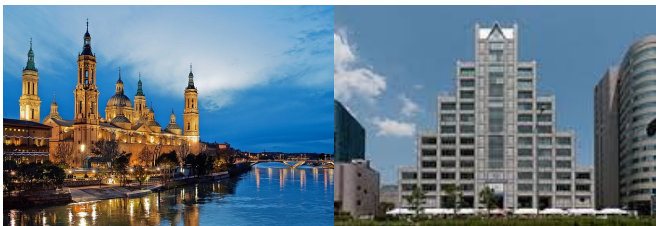
#### Key issues

- Addressing water-energy nexus within SDGs
- Policies for integrated management and governance
- Making the business case for water-energy nexus
- Creating enabling environment - *public/private, pricing*
- Improving joint access - *urban vs. rural*
- Long-term sustainability of water and energy systems

## Linking Zaragoza to Tokyo

Some points on how **today** can help **tomorrow**:

- **Case studies** - Success stories for public-private partnerships
- Application of **technology, research, innovation**
- Achieving **sustainability** for water-energy nexus
- Creating **enabling environment, incentives, funding mechanisms**



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## Some examples from around the World.....

**The Water-Food-Energy Nexus** Annukka Lipponen gave a very detailed insight into the water-food-energy nexus in transboundary river basins, specifically the Alazani/Ganikh Basin



Some key features of the methodological approach/process include:

- Participatory processes
- Sound scientific analysis
- Knowledge mobilization
- Capacity building

### What can the governments do?

- Available relevant data & information
- Ensure a rational and predictable policy framework
- Set appropriate permit conditions for sectoral development projects

### Some challenges

- Channels & forums for dialogue & coordination absent or undeveloped
- Few methods or diagnostic tools that allow appraisal of nexus issues
- Water not valued consistently between sectors

### Some opportunities

- Sharing information to find win-win opportunities
- Shortages encourage more rational use of water
- Knowledge base improving, good practices getting disseminated

## The American perspective

From across the pond, **Kelly Kryc** spoke about managing the energy and water challenge on a National scale.

There are two systems of water law governing the US:

**Prior Appropriation doctrine** in western States – “first in time, first in right”

- Reflects scarcity of water
- Rigid in allocating new users water

**Riparian doctrine** in the eastern States – water belongs to the land owner for reasonable use

- Reflects abundance of water
- Vague, no means to protect certain uses

### Las Vegas, Nevada – A case study in Water Management

- Water use on the “strip” uses only **3% of the water budget** due to recycling
- Water use by residents has decreased from **650 gallons/day to 75 gallons/day**
  - Incentives to customers to remove grass
  - Raised prices for infrastructure improvements
  - Water recycling efforts
  - Leak prevention programs
- **More** can be done



## Water use Global picture, and case studies from China, India and South Africa—Iris Cheng

In **China**: By 2015, 16 new coal power bases will consume 10 billion m3 of water annually – equivalent to about **one sixth of the annual total water volume of the Yellow River**, triggering severe water crises in the country’s arid Northwest.

### India: coal’s major clash with agriculture

- Vidarbha in Maharashtra is highly water stressed.
- Current: 4 state owned coal plants generate ~ 4500 MW.
- Water diverted to coal plants **ILLEGALLY**.

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## Highlights from the second day.....



### Josefina Maestu gives us a recap

- 1 - cooperation through partnerships is not an option
- 2 - Technology is not that complex if we focus on the right choices
- 3 - Local knowledge is essential
- 4 - Water scarcity is a driver of innovation
- 5 - Partnerships are a marathon rather than a sprint

## Challenges and opportunities for Industry Partnership

- **Integrated Planning – Water-Energy-Food-Ecosystems Nexus.**
- The availability of **data, clear concepts and information** is key to determine which solution is most appropriate – e.g. water consumption vs withdrawal.
- Innovations are needed to address “**lock-in**” issues and prevent **rebound effects**.
- The need to move beyond efficiency and address issues of resource restoration and regeneration, and **sustainable consumption**.
- **Decoupling** of socio-economic development from resource use and environmental impacts, and sustainable resource management in relevant political processes.

*“Well defined and properly enforced water property rights is a pre-condition to making sustainable choices in the energy sector”* Josefina Maestu

## Lessons learnt

- **BP Partnership in Australia**  
Kwinana Water Minimisation Project.  
Local knowledge is essential.
- **Coal’s water use**  
Cases from China, India and South Africa: Mismatch between coal & water resources.  
The energy choice is the single largest determining factor
- **Hydropower Sustainability Assessment Protocol**  
The multistakeholder partnership created the legitimacy of the method, accepted by all
- **European Innovation Partnership in Water**  
The joint ownership of partnerships, shared action and responsibility.

### Questions from final session

- What are the key knowledge gaps in the W&E nexus?
- What are the new partnerships between the scientific community, governments, private sector and other actors?



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## Tomorrow's field visits....

Tomorrow we offer you the opportunity to visit some of Spain's facilities

**09:00** in Zaragoza

**Technical visit:** The **Ebro River-Basin Authority** and its Automated System for Hydrological Information (SAIH)

[http://www.un.org/waterforlifedecade/water\\_and\\_energy\\_2014/technical\\_visit\\_saih.shtml](http://www.un.org/waterforlifedecade/water_and_energy_2014/technical_visit_saih.shtml)

**10:00** in Zaragoza

**Technical visit:** **Eco-City of Valdespartera** and **Sustainable Town Planning Center** organised by the Municipality of Zaragoza

**10:00:** Pickup at Ebro River Basin Confederation, Zaragoza, Spain

**10:30 to 11:30:** Tour

**12:00:** Arrival at Ebro River Basin Confederation, Zaragoza (or Hotels/Train Station)

**In Madrid** (organized transport to and from Train station)

**Technical visit: Canal Gestion**

**12:00:** Bus will pick up participants from Atocha Train Station, Madrid, Spain

**12:30-13:30:** Site visit

**14:00:** Bus arrival at Atocha Train Station

Visit to the new main **control center of Canal Gestion**, the public company that manages the water supplies for all the region of Madrid, Spain. The center has a capacity to analyze 10,000 data per minute and enables real-time awareness of supply and treatment status, water quality and the situation at groundwater collection points.

[http://www.un.org/waterforlifedecade/water\\_and\\_energy\\_2014/technical\\_visit\\_canal\\_gestion.shtml](http://www.un.org/waterforlifedecade/water_and_energy_2014/technical_visit_canal_gestion.shtml)

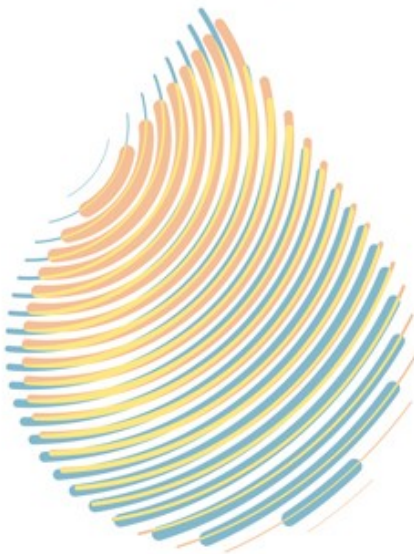
From Zaragoza: **Photovoltaic Water Pumping**. Villar de los Navarros.

**13:00:** Bus will pick up participants from the venue: Confederación Hidrográfica del Ebro (CHE), Zaragoza

**14:30-15:30:** Technical Visit

**17:00:** Arrival at Confederación Hidrográfica del Ebro (CHE), Zaragoza.

**Say Queso!**



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