

The 2nd Meeting of  
THE TASK FORCE TO GUIDE ICID INPUTS  
TO 7TH WORLD WATER FORUM  
(TF-WWF7)

“Events regarding water-energy-food nexus”

18 September 2014

Gwangju, Korea

Possible Events to cooperate with Energy Sector

“Water and Energy International Conference”  
to be held on October 29-31 in Lyon, France.  
ICID was invited as a science committee member.

“Special session on the water-energy-food nexus”  
to be held in WWF7

Upon the recommendation of the Forum Secretariat,  
the Design Group coordinator on 2.1 Water for food  
approached the coordinator for 2.2 Water and energy.  
Although the water for food side proposed the jointly  
organized special session, the water and energy side  
is reluctant to it.  
So far no positive action has been taken.

## What is “Water and Energy International Conference”

### “Water and Energy International Conference” - Contribution by ICID -

- ◇ The conference called for papers and the committee members selected valuable papers to be presented in the conference.
- ◇ The conference was originally designed to hold
  - morning plenaries with high level speakers
  - and
  - afternoon workshops with presentations of the qualified papers and discussions.
- ◇ ICID proposed an additional workshop to bridge over the gap between the both sessions.
- ◇ This proposal was approved by the organizer and ICID designed the draft framework of the workshop.

2

## Purpose of the workshop and its panelists

### Workshop D1

Mutual collaborations by innovative approach seeking for actual implementation of energy and other sector nexus.

The panel will provide an occasion for each sector to explain his/hers concern/perspective to the other sectors as well as to know about the others which will consolidate the foundation to seek for novel field/direction of collaboration between water, food and energy sector.

### Panelists

WWC - general	WRI - sewerage
EDF - energy	Japan Water Resources
ICID - agriculture	Management Center - flood
IWA - domestic water	FAO (tbc) - food
IUCN - environment	World Bank - industry

3

# How better can irrigation cooperate with energy?



## Three key questions to the panelists

- Q1. What is your sector's perspective/concern about water and energy (sector)?
- Please explain your involvement with water and energy (sector)
- Q2. What collaboration/conflict has your sector experienced? How was the collaboration made? How was the conflict solved? What sort of knowledge, learned from this collaboration should be formalized and transferred?
- Please refer to some key factors to lead to the collaboration and to overcome the conflict
- Q3. What is your sector's proposal about potential field/direction of collaboration with energy sector? From your perspective, what does your sector need to know about other sectors?
- Please prepare some novel ideas promoting win-win cross-sector relationships

5

## Answer to Question 1.

Q1. Our sector's perspective/concern about water and energy (sector)?

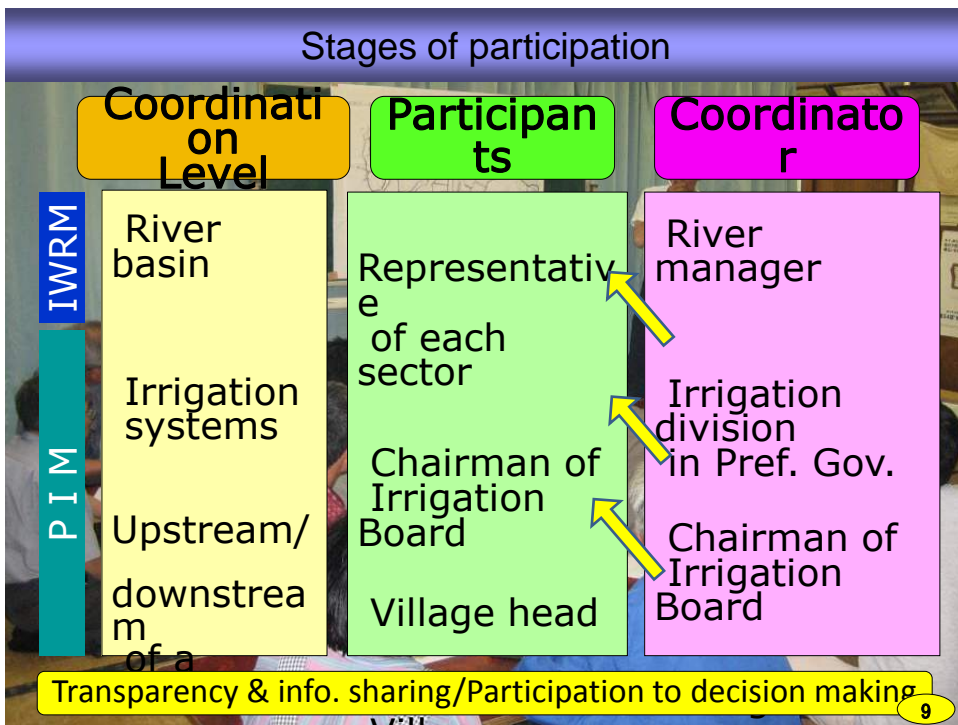
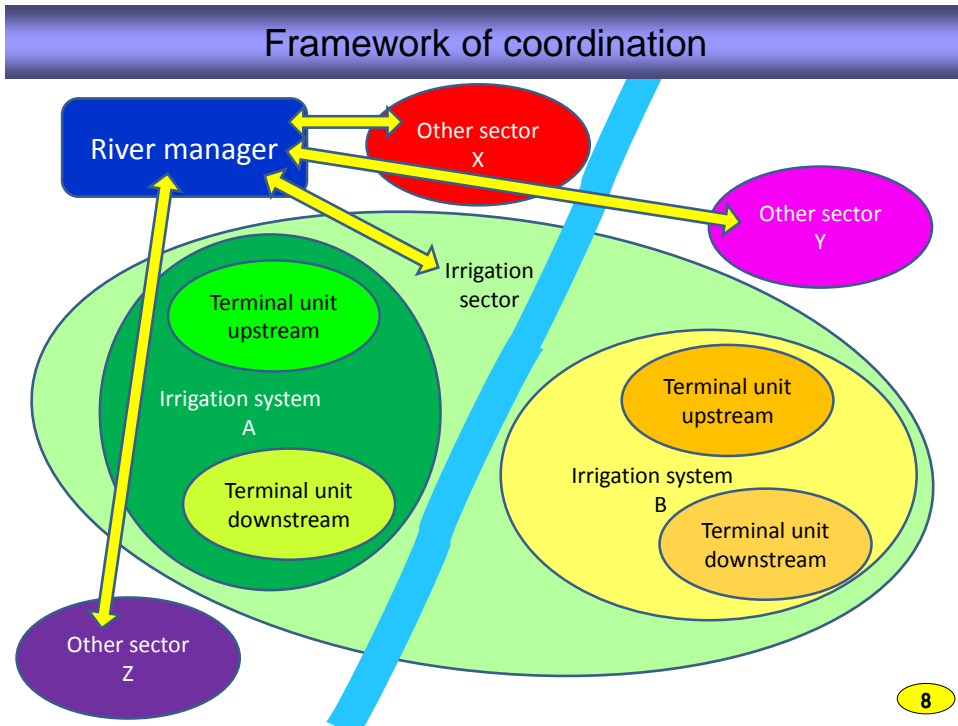
Level	Water	Energy
Farmers (end user)	Aliment of livelihood (fear to wilting point/ reasonable water fee)	A farming input (stable supply at reasonable price)
WUA	Fair water distribution with reasonable fee	Saving energy cost / Exploiting local energy
Local Municipality	Contributing to local economy / Feeding local population	Transferring to energy-saving society
Ministry of agriculture	National food security / Enhancement of agriculture industry	Contributing to global warming by incentive policy

Diversified perspective/concerns by level of involvement 6

## Answer to Question 2.

Q2. Experienced collaboration/conflict, solution,  
key factors to lead the success

Conflict	Key	Cooperation
Competing water resources development	Negotiator/ allocation	Multi-purpose dam with proper allocation
Obtaining water right by hydro-power/	consensus building	Compensation by hydro-power sector
Fluctuating river flow/ cold water discharge for power generation	mobilizing technical solution	Constructing equalizing reservoir / surface water intake
Agric. water shortage at extreme drought	coordination body	Emergency release of water for hydro-power
Lowering groundwater table due to large dams	considering environment	Discharging reservoir water to basic river flow
Regulations regarding local energy develop.	deregulation	Buying local energy at higher price <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span>





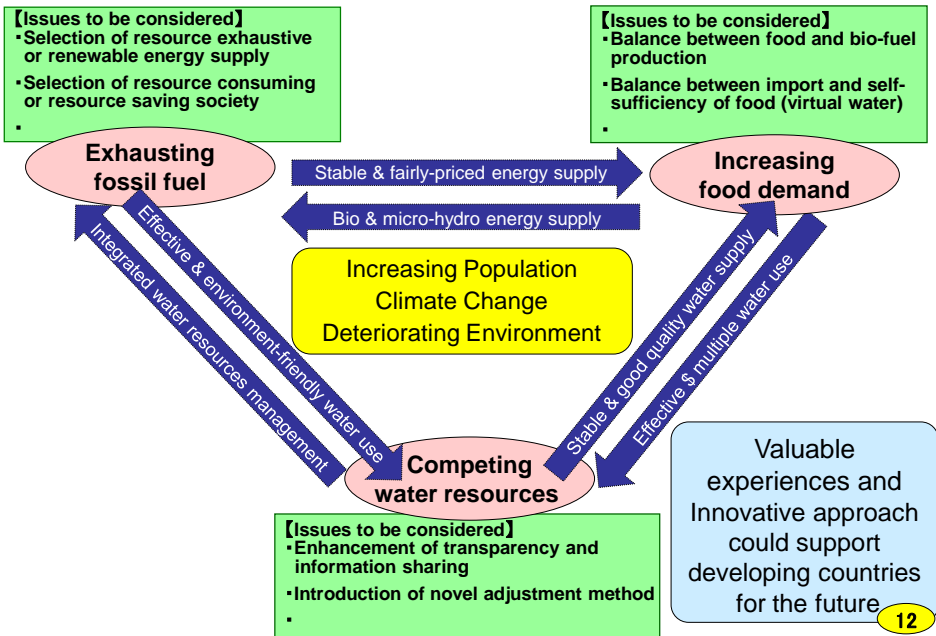
**Answer to Question 3.1**

**Q3.1 Our sector's proposal for collaboration with energy**

Field	Agricultural Water	Energy
Energy saving	Hard/software countermeasures (special electricity bill for agricultural use)	Technical advice
Small hydro power	Introduction of appropriate system	Technical support
Joint venture project	<b>Starting negotiation at the earliest stage through sharing information and enhancing transparency</b>	
Water transfer	Establishment/enhancement of consensus building capacity in the sector	Selection of proper measures showing respect to precedent users

11

# Energy - Food – Water Nexus



# Answer to Question 3.2

## Q3.2 What we need to know about other sectors?

What is their basic concern?  
 What is their cost structure?  
 What is their stage of development?  
 How do they make a plan?  
 What is the hardcore for them?  
 What is their pride?  
 How do they build consensus?  
 What is their judgment standard?

What are they good at? / not good at?  
 What experiences/knowledge/techniques different from us do they have?

and more

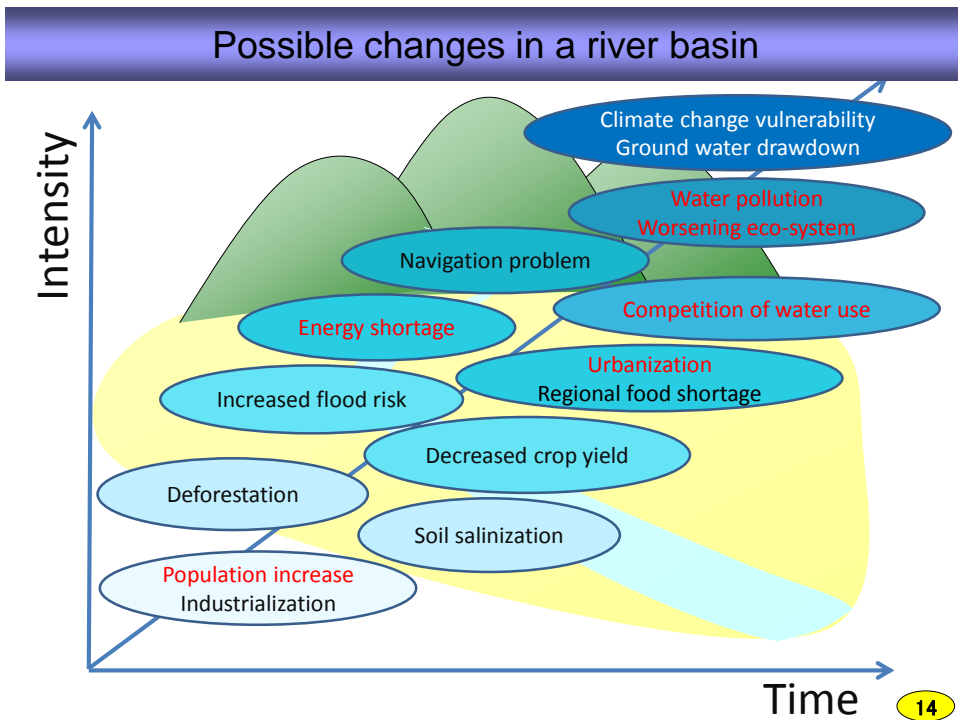
**Better**

- planning
- negotiation
- coordination

**New**

- field
- approach for coordination

13



- ### Renewed concept for better cooperation
- Some important message for the future**
- ◇ Human involvement in the center
    - ⇒ keeping both logic and mentality in mind
    - ⇒ striving for understanding your counterpart (presumption is to dig our own grave)
  - ◇ In the changing society
    - ⇒ from governance by bosses to new governance system
  - ◇ Basis of new governance system
    - ⇒ transparency and participation in decision making
  - ◇ New age of ecosystem earning money
    - ⇒ eg. promoting proactive conservation of downstream ecosystem (improvement of national revenue in Africa)
  - ◇ Flexible staged development
    - ⇒ eg. irrigation use of power reservoirs (esp. in Africa)
- 15**



