



Putting Water and Energy at the Heart of Sustainable Development

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Linking Water-Energy Nexus to Sustainable Development

Connecting to the economic development narrative

- Mobilizing capital and investments
- Post-2015 development agenda

Human and social dimensions

- Human rights, human wellbeing and livelihoods
- Building human and technological capacity

Integrating water-energy security nexus

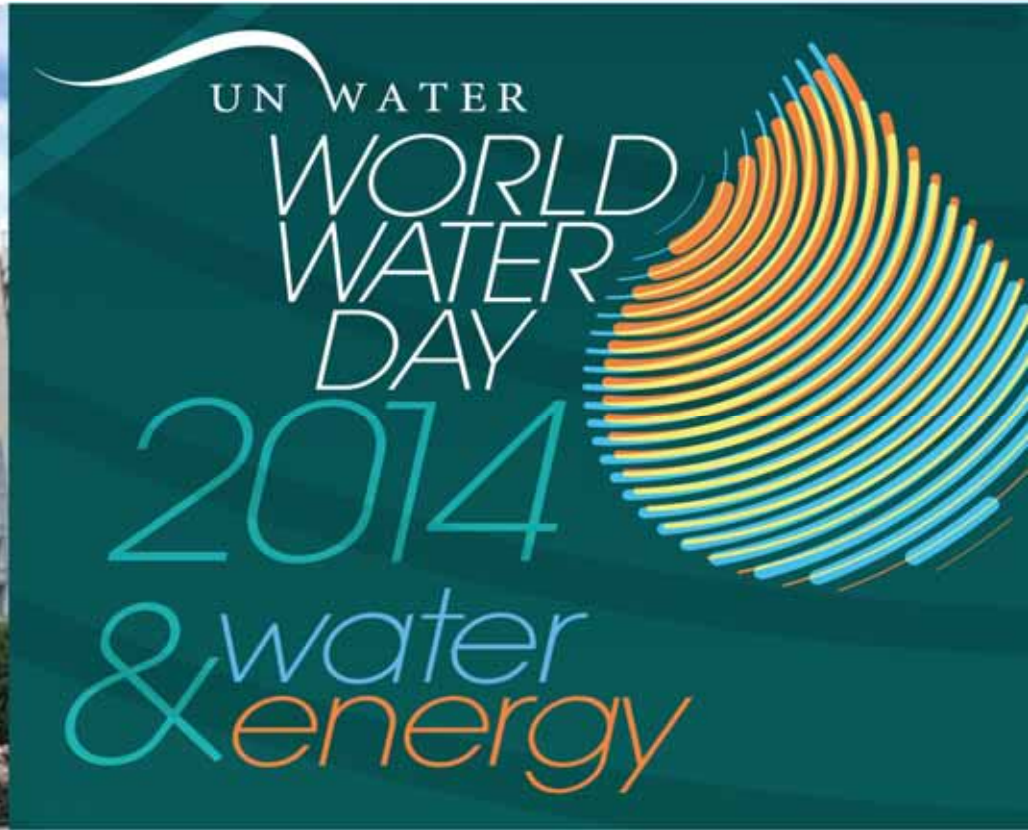
- Policy and ministerial integration
- Transboundary cooperation





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Key Findings



- **Significant advances in policy, research and practice are required**
- **Shifts in priority and investments are equally essential**
- **Energy underpins social development – benefitting education and health**
- **Together, water and energy promote societal stability and human dignity**

Significant Challenges Remain



- **Asymmetries in size & scale further compound entrenched interests in water and energy sectors**
- **Expansion of market share for renewable energy resources faces an uphill battle**
- **Jurisdictional issues can hamper utilization of hydropower potential**
- **Gaps in public perception can lead to social and political tensions**



Partnerships that Link Water- Energy Nexus to Sustainable Development

Solutions Emerging from
2014 UN-Water Annual International Zaragoza Conference





1. Build on Success Stories

Many success stories for public-private partnerships are at hand:

- **OECD:** Success in Ebro basin; Madrid; Stockholm; Zaragoza;
- **Developing countries:** Cinta Mekar, Mweteni village
- **Private Sector:** Carlsberg, BP, Veolia
- **International:** EIP, World Bank's Thirst Energy Initiative





2. Innovation as the Driver

Successful Application of technology, research, innovation has been achieved

- **Improving consumer behavior:** energy-efficient appliances (Singapore)
- **Technologies:** Solar heating (Israel); recycling water and heat in energy generation (US, Brazil, Israel); Linked provisioning of energy and water (Casablanca)
- **Analysis:** Modeling complexity; best cooling technologies





3. Enable Sustainable Development

Partnerships could be used to achieve sustainability for water-energy nexus

- Overcoming fragmentation within sectors
- Making the business case for water-energy nexus – *job creation*
- Scaling up pilot examples of industry partnerships as a means to achieve sustainability





4. Foster Enabling Conditions

Creating enabling policy environment, incentives, funding mechanisms

- Capitalizing on water and energy scarcity as the incentive
- Creating interlinked policies (Israel, Singapore, Spain)
- Creating partnerships without public funding – corporate capital
- **Building capacity !!**





Building effective partnerships is a marathon rather than a sprint. Dialogue is a long term task, so don't try to make too much too soon





Contributors

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Thank you

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