



Third World Irrigation Forum (WIF3)

1-7 September 2019, Bali, Indonesia

Website: <http://www.worldirrigationforum.net> OR <https://icid2019.com/>



ICID-CID

International Workshop Improving the Water Use Efficiency and Productivity within the Water-Energy-Food-Nexus

**01 September 2019; 09:00 to 13:15 hours
Bali, Indonesia**

Background: The world's population is expected to grow from 6 billion today to at least 9 billion by the year 2050. The population growth, urbanization and industrialization are imposing rapidly growing demands and pressures on the water and energy resources and causing in many cases imbalance between supply and demand. This growing imbalance has led to shortages, competition, and other environmental pressures. Achieving food, water and energy security as well as improving the quality of life, while preserving the environment, will continue to pose major challenges to Scientists, Decision makers and Technicians in the next few decades. Irrigation globally consumes around 70% of freshwater resources. This water is becoming increasingly scarce. Therefore, improving water and energy use efficiency and productivity in agriculture practices will be significant and valuable in time to come.

The interdependence of the water as it is food and energy is well known since early civilization. Farmers had to lift water using waterwheels run by cattle to bring water to the surface and irrigate fields. The present challenge is how to produce more crop per drop per kwatt energy per unit area of land. This is the essence of the new focus on the nexus.

Objectives: This Workshop will bring together experts from all over the world to share information, experience, and views on how to implement the water-food-energy nexus in agriculture. The focus will be on field and practical application of the nexus.

Sub-topics: (i) How improved water use efficiency and productivity impact the Nexus; (ii) Water-Food- Energy nexus at field, regional and country scales. Examples of Applications; (iii) How the Environment and ecosystem services benefit from the Nexus; (iv) Economic analysis of food production within the nexus; (v) Management practices that promote the Nexus; (vi) Institutional and Governance issues in implementing the Nexus.

Workshop Program: Under Preparation

This Workshop is being organized by ICID's Working Group on Water and Crops (WG-WATER & CROP) during the Third World Irrigation Forum (WIF3) & 70th International Executive Council (IEC) Meeting from 1-7 September 2019 at Bali, Indonesia.

Contact Coordinates:

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