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International Commission on Irrigation and Drainage

## Call for Papers

International Workshop on

**“The Water-Energy-Food-Nexus: Implementation and Examples of Applications”**

**03 November 2023: 09:30-11:00 and 11:30 to 13:00 hours (TBC)**

**Vishakhapatnam (Vizag.), Andhra Pradesh, India**

### I. Background:

The world's population is expected to grow from 8 billion today to at least 9.8 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 water 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. Irrigation requires energy. Therefore, improving water and energy use efficiency and productivity in agriculture practices will be valuable.

The interdependence of the water, food and energy is well known since early civilization. The present challenge is how to produce more crop per drop per kwatt energy per unit area of land. This is the essence of new focus on the nexus. The WEF Nexus has benefit at local, regional, national and trans boundary scales. Attempts were made to quantify the Nexus by the integration of water, energy and food securities. These securities accounts for accessibility and availability of those three elements.

**II. Objectives:** This Workshop will bring together experts from all over the world to share information, experience, and views on how to implement the water-energy food nexus in agriculture. The focus will be on the practical application of the Nexus. The papers should show examples of application and adress the three elements of the Nexus: Water, Food and Energy.

### III. Theme/Sub-themes:

The main theme of the International Workshop of Working Group is **“The Water-Energy-Food-Nexus: Implementation and Examples of Applications”**.

**Sub-topics/ Sub-themes:** (i) Methods to calculate the WEF Nexus Index; (ii) WEF Nexus at field, regional and country scales. Examples of applications; (iii) The spatial distribution of the WEF Nexus and the trade-offs to improve the WEF Nexus at different scales; (iv) Institutional and Governance issues in implementing the WEF Nexus; and (v) WEF Nexus application and benefit at trans boundary scale.

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Abstracts / papers are invited and encouraged from professionals, researchers, experts, practitioners, managers, and policy-makers on the State, Province or Local levels based on the mandate of the WG.

#### IV. SCHEDULE FOR SUBMISSION OF ABSTRACTS / FULL PAPERS

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|------------------------------------------------------------|------------------|
| i. Submission of abstracts (max. 600 words)                | : 30 May 2023    |
| ii. Notification of acceptance                             | : 15 June 2023   |
| iii. Submission of full papers (max. 10 pages of A-4 size) | : 30 July 2023   |
| iv. Notification of acceptance of full papers              | : 15 August 2023 |

**Kindly submit your abstract (s) to VPH Dr. Yella Reddy, Vice-Chairman, WG-WEF\_N (E-mail : [kyreddy@icid.org](mailto:kyreddy@icid.org) and Er. B.A. Chivate (E-mail : [icid@icid.org](mailto:icid@icid.org)), Director (Technical), ICID Central & Workshop Coordinator of the WG.**

The Workshop is being organized by ICID's Working Group on Water Food Energy Nexus (WG-WFE\_N) during the 25<sup>th</sup> ICID Congress and 74<sup>th</sup> International Executive Council (IEC) Meeting from 01-08 November 2023 at Vishakhapatnam (Vizag.), Andhra Pradesh, India.

#### Contact-coordinates:

**Workshop Chairman: Dr Ragab Ragab**, President of ICID and Chairman of the Working Group on "Water-Energy-Food Nexus" (E-mail: E-mail: [ragab@icid.org](mailto:ragab@icid.org)) and Fellow at UK Centre for Ecology & Hydrology, UKCEH, UK

**Dr K Yella Reddy**, Vice President Hon. ICID; Dean, AMGR Agricultural University; Vice-Chairman, WG on "Water Energy-Food Nexus" (E-mail: [kyreddy@icid.org](mailto:kyreddy@icid.org)); and Former Director (A&R), WALAMTARI, Hyderabad, India.

**Workshop Coordinator: Er. Balasaheb Anantrao Chivate**, Director (Technical), International Commission on Irrigation and Drainage (ICID) (E-mail: [icid@icid.org](mailto:icid@icid.org)), New Delhi. India

Registration and travel information are available at (<https://icid25congress.in/index.html>)

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