

NAME OF THE THEME: SUSTAINABILITY

WATER FOOTPRINT AS A SUSTAINABLE TOOL

Siddharth T and Dr. Sridhar P

Siddharth T
er.siddhartht@gmail.com,
NIT Warangal, Telangana, India.

Abstract: Increasing population, urbanization and industrialization have increased the consumption of water resources. Moreover depletion of water bodies is major menace for the environment and for the future generations. To analyze the problem related to spatiotemporal variation of hydrological cycle and water consumption for various activities, a tool is indeed. Therefore, an effective indicator which includes concern about sustainability of water resource management and governance has to be developed.

To evaluate the accountability and utilization of water resource in various phases, a new methodology in the biosphere coined the term water footprint. To review and suggests about the water usage assessment using water footprint as a tool, have been an effective means of raising awareness of water challenges among people to think outside the box. The objective of this study is to understand the problem in different perception and implementing some advance technological and management oriented solutions based on the water footprint response data as an aid to water resource practice and policy making guidelines for future.

Finally, conclusions are made based on the major applications related to water footprint to date, summarize of advantages and disadvantages and criticisms from the literature and global water research community.

Keywords: *Water footprint, Sustainability Indicator, Water Assessment, Water resource management, Integrated approach*

Paper ID *(To be added by Programme Committee)*