

## Optimizing Inanda Dam Using Water Resources Models

**Authors :** O. I. Nkwonta, B. Dzwauro, J. Adeyemo, A. Jaiyola, N. Sawyerr, F. Otieno

**Abstract :** The effective management of water resources is of great importance to ensure the supply of water resources to support changing water requirements over a selected planning horizon and in a sustainable and cost-effective way. Essentially, the purpose of the water resources planning process is to balance the available water resources in a system with the water requirements and losses to which the system is subjected. In such situations, Water resources yield and planning model can be used to solve those difficulties. It has an advantage over other models by managing model runs, developing a representative system network, modelling incremental sub-catchments, creating a variety of standard system features, special modelling features, and run result output options.

**Keywords :** complex, water resources, planning, cost effective and management

**Conference Title :** ICCSEE 2015 : International Conference on Civil, Structural and Environmental Engineering

**Conference Location :** London, United Kingdom

**Conference Dates :** March 14-15, 2015