



Water and sustainable development

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WEAP Capabilities



WEAP

Water Evaluation And Planning System



- Integrated water resources planning software, now including a plant growth module
- Model-building software
- Basic methodology: physical simulation of demands and supplies
- Scenario building and management capabilities
- Plant growth module
- Dynamic links to spreadsheets & other models e.g. energy, pollution
- Applied in several W.E.F nexus projects
- www.weap21.org

Water & sustainable development

Water

- Critical for socio-economic development, healthy ecosystems and for human survival.
- Reducing the global burden of disease and improving the health, education, welfare and productivity of populations.
- Central to the production and preservation of a host of benefits and services for people, via various ecosystem services.
- Heart of adaptation to climate change, serving as the crucial link between the climate system, human society and the environment.

Sustainable development

- Development to fulfil the needs of present generation without compromising to serve to future generation.
- Sustainability only make senses when we acknowledge that resources are not infinite.
- Understand distinct aspects of renewable and non-renewable resources.

Water as an enabler of SDGs



Source: Globalgiving

SDG 6



7 targets, 11 indicators

Stats:

- More than 80% from human activities are discharged into rivers/sea without treatment.
- As of 2011, 16% of total electricity production was from hydropower.
- 70% of deaths from natural disasters are from floods
- 1.4 billion people currently live in river basins where the use of water exceeds minimum recharge levels.

Indicators

SDG 6 Global Indicators

INDICATORS	TIER	CUSTODIANS
6.1.1 Proportion of population using safely managed drinking water services	II	WHO, UNICEF
6.2.1 Proportion of population using safely managed sanitation services, including a hand-washing facility with soap and water	II	WHO, UNICEF
6.3.1 Proportion of wastewater safely treated	II	WHO, UN-Habitat, UNSD
6.3.2 Proportion of bodies of water with good ambient water quality	III	UN Environment
6.4.1 Change in water-use efficiency over time	II	FAO
6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources	I	FAO
6.5.1 Degree of integrated water resources management implementation (0-100)	I	UN Environment
6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation	II	UNESCO, UNECE
6.6.1 Change in the extent of water-related ecosystems over time	III	UN Environment, Ramsar
6.a.1 Amount of water- and sanitation-related official development assistance that is part of a government-coordinated spending plan	I	WHO, UN Environment, OECD
6.b.1 Proportion of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management	I	WHO, UN Environment, OECD

Source: UNWater

SDG 6 PROGRESS IN AFRICA : Where are we heading as a region?

