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UN: 70 percent of world could be in drought by 2025

The role of Architecture in 2025: Fighting drought caused Health Effects

A green deal is necessary for developing countries working to combat drought, he stressed.

Water scarcity is already affecting every continent. 1.1 billion people (24% of the world’s population) currently live in countries facing high water stress and another 3.4 billion (49% of the population) live in countries facing moderate water stress. This situation will worsen in the future. By 2025, 1.6 billion people (29% of the population) will face high water stress and another 4.8 billion (81% of the population) will face moderate water stress. This is due to a combination of population growth and climate change, which is expected to lead to changes in water availability.

Key climate risks by region extracted from the Intergovernmental Panel on Climate Change (IPCC) Working Group II report on Adaptation, and the Global Environment Facility (GEF) Key climate risks by region.

FUTURE NEED

WHEN EVERY DROP COUNTS

Inefficiency in the use of water resources can lead to significant economic losses, environmental degradation, and social problems. Water scarcity has severe impacts on public health, agriculture, energy, and infrastructure. For example, water scarcity can lead to increased waterborne diseases, reduced crop yields, and increased energy costs for water treatment. In addition, water scarcity can lead to social conflicts, political instability, and economic losses. Therefore, addressing water scarcity is crucial for sustainable development.

EFFECTS OF DROUGHT

Potential impacts of droughts and water stress

Health effects of drought

Droughts can exacerbate inequities

Long-term Drought Plan

Short-term Drought Plan

Site Location

Ethiopia

Somali

Site Location

Ethiopia

Somali

What NCAR says the future drought scenario looks like under climate change over the next 80+ years
Smar t Mobile Architec tural Technology

PLAN

Expansion prototypes - If the condition is severe and needs more support extending modules will be delivered through satellite communication via the smart pole, expansion choice are various as the form of the modules is friendly.

Central Healthcare center - is the core district serving for a limited community.

Atmospheric Water Harvesting
(Water from Air) - Airdrop pumps air through a network of underground pipes; this cools the air until it condenses, delivering water to the roots of plants.

Smart Pole - while harvesting water it also communicates with professionals around the globe via the satellite and displays LED.

ATMOSPHERIC WATER HARVESTING

(Water from Air) - 11.5 millilitres of water could be derived from every cubic meter of air in deserts. Solar panels

Smart Pole - calorimeter for the solar panel

Solar Heat

Air Intake

Fan

Vortex Tube

LED screen

Solar Panels -

Satellite Dish -

Vapour

Air Intake

Energy to operate the turbine and communication system

Communication system

Trees serving as a shade for the smart pole

Thick waxy skin applied to reduce water loss.

Severe solar radiation