

Report on Global Efforts to Improve Water Management

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Sustainable Water Management is Achieving Economic, Social and Environmental Benefits, say Countries

Pre-publication results: UN-Water Survey of 130 Countries Provides In-Depth Status Report on Global Efforts to Improve Water Management

Over 80% of countries have reformed their water laws in the past twenty years as a response to growing pressures on water resources from expanding populations, urbanization and climate change. In many cases, such water reforms have produced significant impacts on development, including improvements to drinking water access, human health and water efficiency in agriculture. At the same time, global progress has been slower where irrigation, rainwater harvesting and investment in freshwater ecosystem services are concerned. These are among the findings of a United Nations survey of over 130 national governments on efforts to improve the sustainable management of water resources.

The survey focuses on progress towards the implementation of internationally-agreed approaches to the management and use of water, known as Integrated Water Resources Management - IWRM. Backed by UN Member States at the 1992 Rio Earth Summit as part of an overall action plan on sustainable development - known as Agenda 21, IWRM is a way forward for efficient, equitable and sustainable development and management of the world's limited water resources. Amid increasing and conflicting demands on the world's water supply, IWRM integrates domestic, agricultural, industrial and environmental needs into water planning, rather than considering each demand in isolation. The latest survey is intended to inform decision-making at the Rio+20 Conference in June 2012. Twenty years after the Earth Summit, world governments will once again convene in Rio de Janeiro to take decisions on how to ensure sustainable development for the 21st century.

The survey, which was co-ordinated by the UN Environment Programme (UNEP) on behalf of UN-Water (the UN inter-agency co-ordination mechanism for freshwater issues), asked governments for their feedback on governance, infrastructure, financing, and other areas relating to water management, to gauge how successful countries have been in moving towards IWRM. Overall, 90 percent of countries surveyed reported a range of positive impacts from integrated approaches to water management, following national reforms. Other key findings include:

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Water-related risks and the competition for water resources are perceived by a majority of countries to have increased over the past 20 years;

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Domestic water supply is ranked by most countries as the highest priority for water resources management;

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The majority of countries reported an increasing trend in financing for water resources development, although obstacles to implementing reforms remain;

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Progress on water efficiency is lagging behind other water management reforms, with less than 50 percent of national reforms addressing water efficiency.

"The sustainable management and use of water - due to its vital role in food security, energy or supporting valuable ecosystem services - underpins the transition to a low-carbon, resource efficient green economy," said UN Under-Secretary-General and UNEP Executive Director Achim Steiner. "As well as highlighting challenges, this new survey also shows important successes regarding integrated water resources management, where a more sustainable approach to water has resulted in tangible benefits for communities and the environment. At Rio+20, governments will have the opportunity to build on these innovations and chart the way forward for sustainable development, where the water needs of a global population set to rise to 9 billion by 2050, can be met in an equitable way," added Mr. Steiner. The UN survey shows the major environmental changes that have taken place between 1992, when IWRM was firstly widely backed by governments, and today - and how water resources are managed in the face of such challenges. The world population, for example, increased from 5.3 billion in 1992 to just over 7 billion today, with impacts being felt most strongly in developing countries. This has been accompanied by increased rural-to-urban migration and high refugee movements due to climatic and socio-political disasters.Â

Successes and Challenges - The survey shows that the introduction of IWRM on a national level varies greatly across the globe, from early planning stages to concrete implementation of new laws and policies. When responding to the survey, some governments reported significant development impacts as a result of pursuing IWRM strategies since 1992, such as: Estonia: Introducing water charges and pollution taxes contributed to improved water efficiency and a reduction of pollution load into the Baltic Sea; Costa Rica: 50% of revenues gained from water charges are now re-invested in water resource management; Guatemala: Hydropower generation capacity almost doubled between 1982 and 2011;Â Ghana: 40% of irrigation schemes for more effective water use

and productivity have been rehabilitated; Chad: Access to water supply increased from 15% in 1990 to 50 percent in 2011; Tunisia: 110 wastewater treatment plants have been built. Yet many countries, particularly those in developing regions, signaled a need for increased capacity-building, investment and infrastructure development in order to fully implement integrated water resources management.

Country Perception of Key Issues - The water-related issues cited most often as high' or highest priority' by governments are infrastructure development and financing (79% of all countries) and financing for water resources management (78%). Climate change is cited as a high priority for action in a majority of countries (70% overall) and 76% of countries considered that the threat to water resources from climate change has increased since 1992. But the survey also highlights important differences between developed and developing countries in terms of water-related priorities. Using the Human Development Index, the survey categorized countries in four groups: low HDI, medium HDI, high HDI and very high HDI. Ensuring adequate water supply for agriculture is a high priority for many low HDI countries, while the preservation of freshwater ecosystems (water for environment') is a priority mainly for very high HDI countries.

Survey Recommendations - The survey includes a number of suggested targets and recommendations, which are designed to inform decision-makers at Rio+20. These are based on an assessment of the findings from the survey and include:

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By 2015, each country should develop specific targets and timeframes for preparing and implementing a programme of action and financing strategy for IWRM.

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By 2015, a global reporting mechanism on national water resources management should be established. This is to ensure a more rigorous reporting system on progress with IWRM, and improve the availability of information.

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More effort is needed to increase levels of financing and to improve the institutional framework for water resources management - especially focusing on low HDI countries.

The UN-Water Status Report on the Application of Integrated Approaches to Water Resource Management will be launched at the Rio+20 Conference on 19 June during the 'Water Day' coordinated by UN-Water. The UN-Water assessment was based on two surveys: a questionnaire-based survey among all UN Member States (Level 1 survey) and an interview-based survey in 30 representative countries (Level 2 survey). 134 countries responded to the Level 1 survey, representing 70 percent of UN Member States and fairly even distribution among geographical regions and HDI groups.

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