

Indicator 6.5.1

Indicator Name, Target and Goal

Indicator 6.5.1 Degree of integrated water resources management

Target 6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate

Goal 6 Ensure availability and sustainable management of water and sanitation for all

Definition and Rationale

○ Definition

The indicator degree of implementation of Integrated Water Resources Management (IWRM), measured in per cent (%) from 0 (implementation not yet started) to 100 (fully implemented) is currently being measured in terms of different stages of development and implementation of Integrated Water Resources Management (IWRM).

The definition of IWRM is based on an internationally agreed definition, and is universally applicable. IWRM was officially established in 1992 and is defined as “a process which promotes the coordinated development and management of water, land and related resources in order to maximise economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems.” (GWP 2010).

○ Concepts

The concept of IWRM is measured in 4 main components:

1. **Enabling environment:** this includes the policies, laws, plans and strategies which create the ‘enabling environment’ for IWRM.
2. **Institutions:** includes the range and roles of political, social, economic and administrative institutions that help to support the implementation of IWRM.
3. **Management Instruments:** The tools and activities that enable decision-makers and users to make rational and informed choices between alternative actions.
4. **Financing:** Budgeting and financing made available and used for

water resources development and management from various sources.

○ Rationale and Interpretation:

The indicator provides a direct progress measurement of the first part of Target 6.5 “...implement integrated water resources management at all levels ...”. The percentage score provides an easy and understandable way of measuring progress towards the target, with ‘0’ interpreted as no implementation of IWRM, and ‘100’ interpreted as IWRM being fully implemented.

To further aid interpretation and comparison, the indicator results can be categorized in a similar way to the survey questions: Degree of implementation =

- Very low (0-9.9)
- Low (10-29.9)
- Medium-low (30-49.9)
- Medium-high (50-69.9)
- High (70-89.9)
- Very high (90-100)

The concept of the survey is that it provides sufficient information to be of real value to the countries in determining their progress towards the target, and through this, various aspects of IWRM. A balance has been sought between providing sufficient information to cover the core principles of IWRM, and thus providing a robust indicator value, and not overburdening countries with unnecessary reporting requirements.

Data Sources and Collection Method

Respond to the questionnaire based on the relevant laws and the efforts of each ministry.

Method of Computation and Other Methodological Considerations

○ Computation Method

1. The survey contains 32 questions divided into the four main components described above.
2. Each question is given a score between 0 and 100, in increments

of 10, based on the following 6 main categories:

- Very low (0)
- Low (20)
- Medium-low (40)
- Medium-high (60)
- High (80)
- Very high (100)

Note that guidance is provided for each threshold for each question, to ensure objective and comparable results.

3. The un-weighted average of the question scores within each of the four components is calculated to give a score of 0 – 100 for each component.

4. The component scores are averaged (un-weighted) to give the indicator score, expressed as a percentage between 0 and 100.

○ Comments and limitations

2. Question responses:

- a. All questions answered. Official guidance is that all questions should be answered (either with a score or N/A).
- b. Scores in range from 0-100, in increments of 10.
- c. Check that N/A (not applicable) is used appropriately.

3. Justification/evidence fields:

- a. Check that the free text make sense in the context of the score (and vice versa).
- b. If N/A is used appropriately, or if a score of 100 is given, check that a justification is provided, as per instructions in the questionnaire

References

Questionnaires and instructions can be obtained from the following URL.

<http://iwrmdataportal.unepdhi.org/iwrmmonitoring.html>

Custodian Ministries of Data

Ministry of Land, Infrastructure, Transport and Tourism

Custodian Ministries of Related Policies

Cabinet Secretariat

Ministry of Health, Labour, and Welfare

Ministry of Economy, Trade and Industry

Ministry of Land, Infrastructure, Transport and Tourism

Ministry of the Environment

International Organizations

UN Environment Programme (UNEP)