

NAP Water Supplement: Integrating Water in National Adaptation Planning and Implementation

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PAN ASIA LEARNING WEBINAR: WATER-RELATED ADAPTATION PLANNING & PROJECT PREPARATION

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a water secure world



Global Water and Climate Programme

• 60 Countries - Africa, Asia, Caribbean, Latin America, Central & Eastern Europe

- Phase 1: 2011-2016
- Phase 2: 2017-2019

Global Water Partnership

www.gwp.org

Overall objective

To support countries to integrate water security and climate resilience in development planning and decision making processes

Aligned with objectives of the Paris Agreement: National Adaptation Plans, NDCs



www.gwp.org

OUR APPROACH:

Partnerships - linking development agendas

Climate community (UNFCCC COP)

Development and Finance communities

Water community



....Working across sectoral silos, bridging divides....

Main climate hazards identified in NDCs

UNFCCC, 2016; 137 countries



Adaptation action areas prioritized in NDCs UNFCCC, 2016; 137 countries



NDCs and Water

Water key to Adaptation in 89% NDCs – specific priorities vary vastly GWP, 2018; 80 countries

Figure 4. Prioritised water actions for adaptation in NDCs



More than 80 per cent of countries have laid solid foundations to achieve at least medium-low levels of IWRM implementation. Progress now needs to accelerate.

Percent of countries at each implementation level		Score range	Baseline	Towards 2030	
4	Very high	91-100	Achieving policy objectives for	Countries in this category are likely to reach the global	
15	High	71-90	IWRM: 19 per cent	target, or have already done so, but will need to remain focused to consolidate and strengthen gains.	
21	Medium-high	51-70	Implementing most elements of IWRM in long-term programmes: 21 per cent	Countries in this category are potentially able to reach the target, but sustained efforts need to focus on 2030 targets.	
41	Medium-low	31-50	Have institutionalized most elements of IWRM: 41 per cent	Countries in these three lowest categories (60 per cent of countries) are unlikely to meet the global target unless progress significantly accelerates.	
19	Low	11-30	Have started developing elements of IWRM: 19 per cent	Countries in the three lowest categories should aim to set national targets based on the country context.	
<1	Very low	0-10	- -		



GLOBAL BASELINE FOR SDG 6 INDICATOR 6.5.1: DEGREE OF IWRM IMPLEMENTATION

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Asian countries: self-scoring on IWRM implementation

		Section 1	Section 2	Section 3	Section 4
		Average	Average	Average	Average
Country name	Final IWRIVI Score	Enabling Environment	Institutions and Participation	Management Instruments	Financing
Bangladesh	50	50	49	56	45
Bhutan	32	36	24	38	32
Cambodia	46	54	46	50	32
China	75	75	75	76	72
Georgia	35	36	48	32	24
Indonesia	48	52	53	52	36
Malaysia	43	46	47	47	32
Nepal	33	23	49	27	33
Pakistan	50	67	51	41	40
Philippines	51	64	53	52	37
Sri Lanka	25	16	36	26	23
Viet Nam	38	47	35	36	34

IWRM implementation SDG 6.5.1 score

Very low Medium-low Medium-high High Very high No data

National Adaptation Plan (NAP)



UNFCCC Technical Guidelines for National Adaptation Plans – Water Supplement

Available from GCF Readiness & Preparatory Support Programme:

- One-time \$3M per country for NAP
- \$1M per year per country for 'Readiness'

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April 2019: NAP EXPO

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 enable the identification, prioritisation, financing, and implementation of water-related adaptation strategies and projects

- establish a framework for integrating water perspectives into planning, implementing, and monitoring adaptation actions that promote climate resilience, in ways that are embedded with medium-to-longer-term development processes
- empower stakeholders involved in using or managing water to participate effectively and efficiently in the process to formulate and implement NAPs
- strengthen gender considerations in water-related adaptation planning and implementation
- help non-water specialists to understand the issues related to water security in the context of climate change

 incorporate waterrelated adaptation needs and

- opportunities in
- the formulation and implementation of NAPs
- enhance the integration of water-related
- adaptation in
- development
- policies, programmes,
- and plans

 strengthen the resilience of economies, livelihoods, and natural ecosystems by reducing waterrelated climate vulnerabilities, and building adaptive and transformative capacities

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Water Supplement designed to complement UNFCCC LEG Technical Guidelines for NAP process



- Not prescriptive countries will scope what exists and what needs to be done, to create streams for their work at the national and sub-national levels
- Showcase examples, case studies and recommend key references
- Provide for countries to **build on existing activities** and to "enter" the NAP process at appropriate points
- Many of the activities can and will be done in parallel, and **no mandatory** sequencing

Coherence in SDGs, Paris Agreement, DRR agendas at national level



NDC & National Communications

> Highlight national adaptation needs and gaps in the global arena
> Facilitate mobilization of partnerships, capabilities, and finance for NAP implementation

NAP

- Adaptation needs/capacities assessments in NAP process informs the adaptation component of NDCs
- NAP implementation contributes to NDC delivery

D. Reporting, Monitoring and Review

- 1. Monitoring the NAP process
- 2. Reviewing the NAP process to assess progress, effectiveness and gaps
- 3. Iteratively updating the national adaptation plans
- 4. Outreach on the NAP process and reporting on progress and effectiveness

A. Laying the groundwork and addressing gaps

- 1. Initiating and launching of the NAP process
- 2. Stocktaking: identifying available information on climate change impacts, vulnerability and adaptation and assessing gaps and needs of the enabling environment for the NAP process
- 3. Addressing capacity gaps and weaknesses in undertaking the NAP process
- 4. Comprehensively and iteratively assessing development needs and climate vulnerabilities

NAP process in 17 steps

C. Implementation Strategy

- 1. Prioritizing climate change adaptation in national planning
- 2. Developing a (long-term) national adaptation implementation strategy
- 3. Enhancing capacity for planning and implementing adaptation
- 4. Promoting coordination and synergy at the regional level and with other multilateral environmental agreements

B. Preparatory Elements

- 1. Analysing current climate and future climate change scenarios
- 2. Assessing climate vulnerabilities and identifying adaptation options at the sector, subnational, national and other appropriate levels
- 3. Reviewing and appraising adaptation options
- 4. Compiling and communicating national adaptation plans
- 5. Integrating climate change adaptation into national and subnational development and sectoral planning

Possible flow of responsibilities for NAP process: potential entrypoints for integrating water



Supported by Research, Systematic Observation, Education, Training, Communications, Stakeholder Inputs, etc



Our shared experience with countries and partners has taught us that adaptation projects need to be underpinned by substantive climate science, notably to identify anticipated changes in climate, their impact and the vulnerabilities of affected populations.

YANNICK GLEMAREC EXECUTIVE DIRECTOR, GREEN CLIMATE FUND

Disaster Risk, Climate Change, and Climate-Resilient Development



Climate disasters occur when extreme climatic events interact with vulnerable social, economic and environmental conditions leading to severe alterations in normal functioning of a community or a society.

- Disaster risk intersection of exposure, vulnerability and hazard/extreme events
- Climate change exacerbates disaster risk – by affecting vulnerability to future extreme events, modifying coping capacity/ and adaptive capacity

Source: IPCC, SREX 2013

Climate rationale - what is it?

Provides the evidence for climate investment and policy decision making Assess the causal links between climate impacts and climate action

> The impact an investment or policy is expected to have on climate resilience

The impact that climate is expected to have on an investment or policy Needs to be based on **best available science**

Climate Rationale and the Project Intervention



Climate Services for Water

	Water affected sector	Examples of relevant hydro-met-climate information	Examples of application of hydro-climate services
Economic systems	Hydropower and thermal powerIrrigationIndustryMunicipal waterNavigation	 Weather (air temperature, precipitation, wind, solar radiation, humidity, atmospheric pressure) Weather statistics (historic time series, summary statistics) Water quantity, Runoff Water quality Soil moisture 	 Water allocation Irrigation scheduling Flood and drought estimation Hydropower generation Siting, mix of energy sources Pollution control Demand scheduling Floodplain mapping/zoning
Rural livelihoods	Subsistence farming and pastoralism Fisheries Settlement and supply	 Groundwater information Quantitative precipitation forecasting (QPF) Hydroclimatic extremes (floods and droughts) 	 Reservoir operations Risk management measures Water-management regulations and laws Design and placement of
Ecosystems	Aquatic biodiversity Ecosystem goods and services Catchment land quality	 Climate forecasts Decadal climate predictions Climate change projections Changes in precipitation, seasonal forecasts 	infrastructure

Water resource management actions that build resilience

	Characteristics of Resilience	Water Management Systems That Build Resilience	
Water	Preparedness to manage and cope with change and shocks	Flood forecasting, early warning systems, emergency response plans, flood protection plans, urban planning and development, storage, system operating rules, land-use management, watershed management, preservation of natural infrastructure	
Resilience in nt Systems	Diversity and redundancy to ensure continuation of functionality	Linked water systems and regional power pools operated at different assurance, diversity in water and energy supply sources, diversity in crops and irrigations practices relevant to climate systems, excess institutional capacity, shared information systems	
cteristics of I Manageme	Integration or connectedness to allow for optimization, benefits of scale	Coordinated hydropower generation, regional power pool, conjunctive use of surface and groundwater, basin-level or multilevel planning, multipurpose infrastructure, integration of natural and built infrastructure, water-related policy harmonization	
Charao	Robustness to withstand change and shocks	Well-designed, resilient, storage and flood protection infrastructure, appropriate operating rules, functioning ecological infrastructure, coordinated institutional systems, local community response systems, relevant information systems	
eristics temic ence	Adaptability of a system to change	Flexible institutional arrangements, flexible infrastructure design, responsive flood mitigation strategies, policies that facilitate technology adoption and climate smart actions, policy and support that enables livelihood adaptability	
Charact of Sys Resili	Transformability of a current system to a better system	Flexible policy and legislation, regularly revised strategies, learning institutions that can reorganize, infrastructure systems that can be altered or operated in different ways, community and country resources to enable changes	

Incremental value via transboundary coordination

Level of Required Actions			d Actions		
			National	Regional	
	Information Systems	Data monitoring and sharing systems	Data collection, verification, quality control; Use of shared information for preparedness to flood, drought; Data dissemination and sharing with relevant sectors, local stakeholders, and regional entities; Harmonization of national practices with regional protocol	Agreement on data collection and sharing protocol; Regional platform/mechanisms available for exchange	
10		Decision-support information systems and early warning systems	Provision of data for calibration; Use of analytical tools for preparedness and robustness development projects; National preparedness plans and information dissemination schemes are developed or harmonized; National plans are informed by basin- wide models and jointly developed tools	Joint development of modelling and analytical tools; Forums for dialogue that use tools for development prioritization and planning; Early warning systems implemented, information disseminated to national or local constituents	
it Systems	Institutional Systems	Flexible policy and legal instruments	National law enforcement, policy implementation; Agreement and execution of management actions	Regional policy implementation; Agreement on climate-informed water/benefit sharing, abstraction limits, storage and release protocols, other regional protocol	
Water Managemen		Institutionally and financially sustainable water resource organizations	Sub-basin organizations manage local processes, carry out sub-basin level management functions; National structures coordinate, allocate, and develop plans among sectors and ministries; Carry out information and investment functions and communicate with stakeholders for accountability purposes	Agreement on organization mandate; Capacity building within organizations; Financial sustainability measures in place; Working partnerships with national governments, other regional bodies established	
	ystems	Basin-scale, resillence-targeted, investment planning	Develop national plans for water management and development; Tailor and prioritize investments to local needs and norms; Coordination of national project prioritization and planning with regional agreements and processes	Basin-wide dialogue to jointly prioritize interests, evaluate cross-border and cross- sector trade-offs, agreement on regional investment plans that ensure system preparedness, robustness, redundancy, and adaptability; Regional resource mobilization	
	Infrastructure S	Robust Infrastructure investment implementation	Prepare and implement national investments in collaboration with regional counterparts to share risk, optimize benefits; Operate national infrastructure sustainably, in coordination with other users; Endeavor to restore and maintain ecosystems services and natural infrastructure; Target preparation studies to ensure robustness, adaptability to a changing climate; Carry out stakeholder consultations to ensure optimization of benefits, minimization of impacts	Transboundary coordination in investment planning, implementation, and operation; Prepare, operate, restore joint-infrastructure investments; Enable optimal operation of investments in the region	

Financing Water in NAPs

The NAP process: key elements requiring finance



Financing Water in NAPs

Approved spending for water and climate resilience by different climate funds, 2006–2017



Note: Excludes electricity-generating related products but includes a small number (c30) of projects relating to energy use for irrigation, etc.

Key Messages

- Build embedded in-country capacity, knowledge.
- Make the **economic case**, communicate, addressing real-world problems with practical solutions. Cost of inaction potentially tremendous, can derail development ambitions.
- Balance top-down (climate models) and bottom-up (vulnerability assessment). Take a **risk-based approach. Communicate uncertainty.**
- Learn by doing. Water management is context-specific and so are interventions to improve climate resilience through better water management.

Institution

- Success depends on **stakeholder ownership**, **gender equality**, ensure **inclusion** of vulnerable groups.
- Regional and **transboundary dimensions** of shared waters calls for an integrated approach transcending national boundaries.

Infrastructure

- Balance **political**, **technical** and **financial** feasibility.
- Funding shortage for water-related projects less an availability-problem, more an **access issue** understand requirements, improve institutional coordination.

NAP-related processes supported

Initial 8 countries:

2011-2016

- Ghana
- Burkina Faso
- Cameroon
- Tunisia
- Burundi
- Rwanda
- Mozambique
- Zimbabwe



Additional 10 countries:

2017-2019

- Zambia
- Tanzania
- Central Africa Republic
- Benin
- Mali
- Mauritania
- Sao Tome Principe
- Kenya
- Uganda
- Senegal

Cameroon NAP

Burkina Faso NAP



- Ministries supported
 - Environment, Nature Protection, Sustainable Development
 - Other relevant Ministries
- Final Cameroon NAP approved by stakeholders and government in August 2015. NAP available on UNFCCC site online.



- Ministries supported
 - Environment, Sustainable Development
 - Other relevant Ministries
- Final Burkina Faso NAP approved by stakeholders and government in October 2015 NAP available on UNFCCC site online.

Zambia NAP

NAP-Ag Roadmap (supported by UNDP/FAO, GWP)

NAP development (supported by GWP)



UGANDA programme development for Adaptation Fund: Vulnerability Assessment and Options Appraisal, \$7.5 Million accessed





4 Water Management Zones

8 hydrological basins (WMZs)

Catchments: (1) Awoja in Kyoga WMZ, (2) Aswa in Upper Nile WMZ and (3) Maziba in Albert Nile WMZ

Mainstreaming climate change in local planning : Doumis Basin – Governorate of Bizerte – Northern Tunisia



Ecological importance : Lake Ichkeul - Ramsar Site downstream

Training civil servants



Planning meetings

Engaging local authorities and local population facilitators group





Surveys conducted jointly with national partners



 \rightarrow Gender

→ Youth

Crucial : Broaden population facilitators group





TRANSFORMATIONAL CLIMATE RESILIENCE WATER PROJECT CONCEPTS IN AFRICA FOR THE GREEN CLIMATE FUND

Africa Water Investment Programme (AIP)



REPORT OF THE INAUGURAL TECHNICAL WORKSHOP ON PREPARATION OF CLIMATE RESILIENT WATER PROJECT CONCEPTS AND PROPOSALS

Held at the Vulindlela Academy Auditorium, Development Bank of Southern Africa (DBSA) Nidrand. South Africa









Technical Workshop on Project Preparation for Transformational Climate Resilience Water Project Concepts in Asia workshop





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Global Water

Partnership

Technical Workshop on Project Preparation for Transformational Climate Resilience Water Projects in the Mediterranean Region for the Green Climate Fund



Global Water Partnership Mediterranean (GWP-Med) & Union for the Mediterranean (UfM)

With the support of the Swedish International Development Cooperation Agency (SIDA) and the GWP Water, Climate and Development Programme (WACDEP)

Partnership for Climate Resilient Water Project Development

Regional Project Preparation Partnerships:

GCF readiness proposals, project concept notes, project proposals



In Africa, updates since October 2018

- 46 GCF project ideas
- 2 GCF project concept notes completed, full proposals being drafted –
 - SADC (multi-country)
 - Zambia (town of Livingstone)
- 1 draft project concept review (Ethiopia)
- 1 Readiness proposal for NAP development submitted (Zambia)
- 5 country requests for GWP as delivery partner for Readiness support (Sudan, Zambia, Burundi, Mauritania, Libya)
- Other requests for project concept note expected







Global Partnership with UN agencies to support national adaptation plan processes





Synergies of Partners on Flood & Drought Management





IDMP

Integrated Drought Management Programme

Technical Support Unit by WMO and GWP



Building on GWP Regional and Country Water Partnerships and NMHS New Adaptation Fund project in the Volta Basin



Drought and Flood Management HelpDesks Global expertise turned into direct Advisory to close gaps at national level

World Meteorological Organization Weather • Climate • Water



www.droughtmanagement.info

Focus on strengthening three Pillars:

- 1. Monitoring and Early Warning Systems
- 2. Vulnerability and Impact Assessment
- 3. Drought mitigation and preparedness





TOOLS AND PUBLICATIONS	EDUCATION	REFERENCE CENTRE DATABASE	QUESTIONS & ANSWERS			
	Help Yourself					

www.floodmanagement.info

Focus on Project Preparation;

Build up strength on End-to-End Early Warning Systems

Other Key Resources: AU/AMCOW Framework for Water Security, Climate Resilient Development Key



Framework provides guidance on identification and prioritization of investment projects for climate resilience development, how to integrate these into development planning processes









Strategic Framework for WASH Climate Resilient Development



A recording of the webinar led by UNICEF to introduce the joint GWP/UNICEF collaboration on WASH climate resilience programming, held February 2018.





Brief

English, Spanish, French, Portuguese

4. Monitor and move forward - Technical · Monitoring and evaluation for climate resilient WASH

Additional references available here

José Gesti Canuto, Water and Climate Specialist with

UNICEF, outlines the collaboration with GWP. Filmed at Stockholm World Water Week 31 August 2017.

About the collaboration

José Gesti Canuto

How it started

Armand Houanye

Armand Houanye, GWP West Africa Executive Secretary, explains the background to it all. Filmed at Stockholm World Water Week 31 August 2017.





GWP and UNICEF Technical Briefs



How to access GWP support for NAPs & GCF Readiness

..... Any country can be supported



OUR APPROACH:

Partnerships - linking development agendas

Climate community (UNFCC COP people) Development and Finance communities

Water community



....Working across sectoral silos, bridging divides....