#2020FMM

SWA Webinar

Incentive Based Financing –

An Overview

3-5 March 2020



Co-convened by







Agenda

- Incentive based financing to end inequalities
- Question & Answer
- Climate financing for sanitation and water
- Green Climate Fund
- Ethiopia's Experience
 - **6 Question & Answer**



Incentive Based Financing- An overview

Prepared and Presented by Bill Kingdom, SWA Senior Adviser



What is Incentive (Results) Based Financing?

 Results-based financing (RBF): A mechanism that rewards the delivery of outputs or outcomes with an incentive, upon verification that the agreed result has been delivered. Often requires pre-financing of activities before payments are made.

As opposed to:

 Input Based Financing: Provides financing to deliver an asset – which may or may not deliver results. Traditional method of sector financing.





Results Based Financing can be used at different levels and degrees of risk transfer.

Different levels of RBF:

- Sector level by IFIs to incentivize governments towards sector reform/sector performance improvements
- Sector level by Governments to incentivize utility performance
- Project level by utilities to incentivize delivery of project results

Different degrees of RBF risk transfer:

- Minor performance bonus for delivering particular results
- Major substantive capital or operating costs at risk in event of non-performance

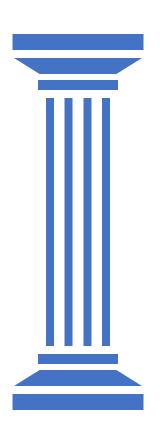




Two Pillars of World Bank Program for Results Instrument (PfR): Programs and DLIs

Program Definition/Program of Expenditures

- PforR has supported a range of government programs
- The majority have supported sub Programs, either sectorally or geographically
- Program boundaries also define the scope of the assessments to be carried out



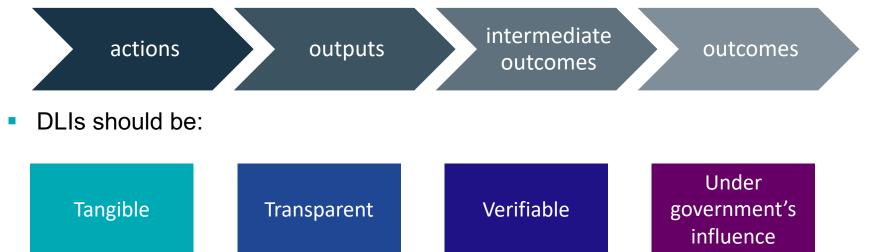


- PforR has supported a range of DLIs depending on the Program
- DLIs include service delivery indicators, outputs and/or outcomes
- DLIs also include institutional indicators including on fiduciary and environmental and social issues
- Each DLI has a specified verification protocol before disbursement

Key to Incentives - Disbursement Linked Indicators (DLIs)

PforR operations disburse funds based on "Disbursement-linked Indicators (DLIs)"

Depending on the Program, DLIs can be:



 DLIs can be scalable, meaning disbursement is proportional to progress in achieving the DLI. This helps provide a more stable basis for disbursements than threshold-type conditions.

DLIs (or any RBF model): Verification Mechanisms

- Credible verifications arrangements to be put in place
- Verification is typically handled by government independent entities (usually in charge of conducting audits) or by private firms contracted by the government
- Each DLI should have a specified verification protocol agreed upon during preparation and appraisal



Example DLIs from an RWSS Project

- DLI 1: Number of people with access to an improved water supply
- DLI 2: Number of sustainably functioning water points
- DLI 3: Number of people with access to an improved sanitation facility
- DLI 5: Number of villages that achieve and sustain community wide sanitation status
- DLI 7: Number of entities submitting accurate and complete sector M&E data
- DLI 8: Rural support agency established and operationalized





Gradual and continuous improvement

Group 1 utilities

Group 2 utilities

Group 3 utilities

Group 4 utilities

Group 5 utilities

National scheme to incentivize performance improvements and mobilization of market finance

Matching grant

To encourage and leverage non-public financing

Matching grant

To encourage and leverage non-public financing

Matching grant

To encourage and leverage non-public financing

Performance based grant

For improved performance and increase service coverage

Performance based grant

For improved performance and increase service coverage and expand services

Performance based grant

For improved performance and increase service coverage and expand service areas

Seed grant

To increase service coverage and improve performance

Seed grant

To increase service coverage

Seed grant

To achieve minimum service standard

TA and CB

Advance skills and innovation

TA and CB

Advance skills and innovation

Technical assistance and capacity building Basic skills

TA and CB

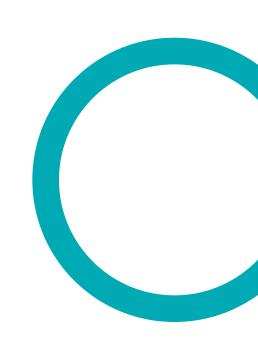
Operation and management skills

TA and CB

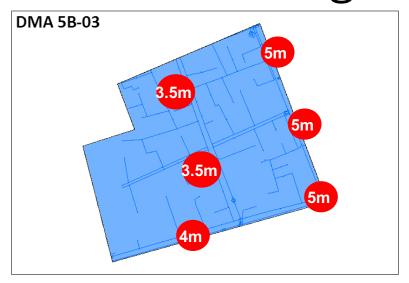
Operation and management skills

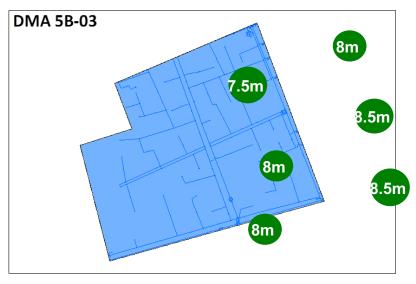
Project level RBF for improved efficiency through reduced NRW – HCMC, Vietnam

- Type of contract Output-based: design, build, operate contract with strong performance element
- Payment:
 - Small fixed fee
 - 'Priced Activity Schedule' for DMA establishment (lump sum price per DMA established)
 - Performance fee per m3 leakage reduction
 - BoQ (supply and installation) for unforeseen works and works to connect new customers
- Contract duration 4 years + 1 year maintenance period
- Performance Indicator:
 - m³/day with a minimum level to avoid penalties
 - But with a special provision for adjustments driven by changes in pressure
- Monitoring: HCMC Water Supply Company supported by special consultants (regular construction supervision and periodical independent auditor)



Benefits of leakage reduction





Pressure Before

BEFORE (September 2010)		
Supply (m³/day)	3,487	
Consumption (m ³ /day)	1,461	
Average Pressure (m)	4	
NRW Volume (m³/day)	2,026	
NRW %	58%	

Pressure After

NRW Reduction	
1,718 m ³ /day	

AFTER (October 2011)		
Supply (m³/day)	1,891	
Consumption (m ³ /day)	1,583	
Average Pressure (m)	8	
NRW Volume (m³/day)	308	
NRW %	16%	

Summary results – HCMC, Vietnam

What:

Service population of ~1 million people Number of connections 140,811 Length of distribution system 662,063 m

Result:

Volume of water saved = 92,000 m³/d (final amount ~100,000 m³/d)
Almost half the pre-project amount of leakage
Saved water could serve 500,000 people in HCMC
Saved power (23,000 kwh/d) could serve 2,500 HH in HCMC

O How:

Number of DMAs created: 114

< 1% of distribution system replaced

8,535 connections replaced = 6%

12,000 leaks fixed in 662 km of pipe = one every 50 m

Performance based payment: fixed + variable per m³/d saved





Project level RBF for improved energy efficiency via ESCOs

Overall approach:

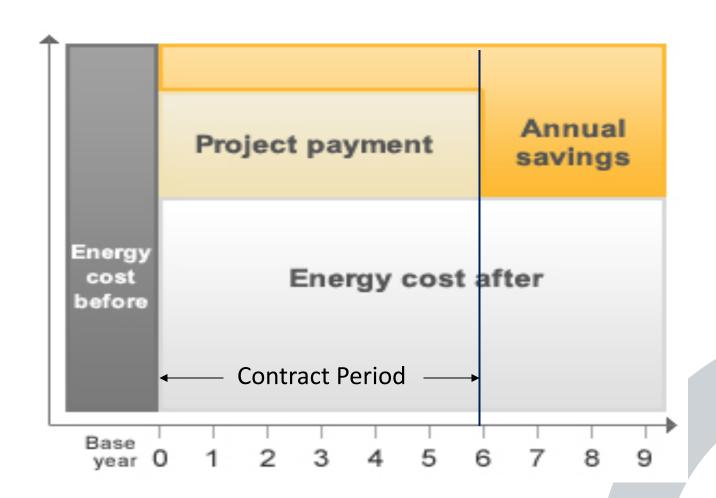
- Provide or arrange a complete package of services, including energy audits/analysis, design, installation, financing, and operation and maintenance; and provide guarantees of resulting performance
- Offer financing models under which urban water utilities can effectively pay for the investments in EE over time from a portion of actual energy cost savings achieved
- Payments to the ESCO are based on demonstrated and verified results (that satisfy the performance guarantees provided by the ESCO)
- Most of the project risks are assumed by the ESCO.

Types of Services provided by ESCO:

- Power factor correction
- Variable speed drives
- Pump replacement
- Solar PV systems
- Energy management and control systems
- Rehabilitation of pumping systems
- Other

From Dilip R. Limaye

A Win-Win Performance Based Model



Output Based Aid to Incentivize Commercial Financing of Water and Sanitation in Kenya

The Challenge

- WSPs face growing populations, increased investment needs, and lack access to finance for water and sanitation
- Investments in infrastructure exclude lowincome areas (e.g., informal settlements)
- Market intelligence and perceived risk of lending/borrowing for water and sanitation

The Solution

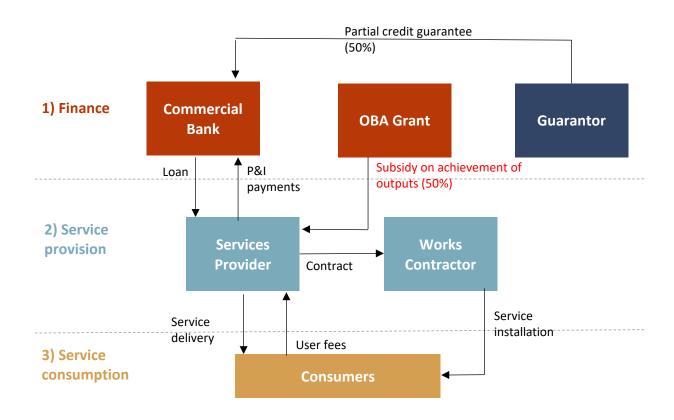
- Sector reforms created an environment conducive to commercial lending to help fill investment gaps (e.g. Kenya Water Act 2002 /16; autonomous WSPs; independent sector regulator; ring fencing revenues)
- OBA incentive to target low-income populations
- WSP creditworthiness assessments
- Technical assistance to assess financial viability and technical feasibility of projects/ improve bankability of WSPs
- USAID partial credit guarantee to mitigate lende MEETING credit risk

OBA for Commercial Financing of Water and Sanitation in Kenya

Outcome

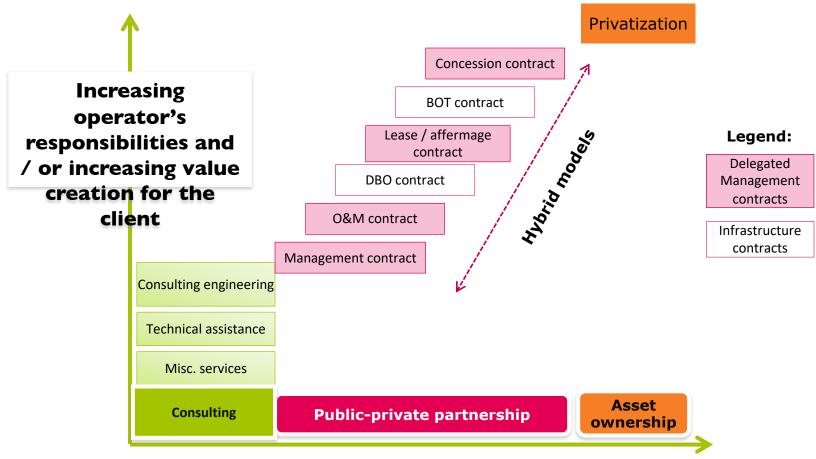
- Pilot: 35 communities borrowed \$3.4 million from K-Rep bank benefitting 200,000 people
- Ongoing projects: 9 utilities have accessed
 \$20 million in commercial loans from 4 domestic lenders on market terms, benefitting an expected 300,000 people
- Going forward: Establishment of a pooled water facility (KPWF) to mobilize local private capital to finance water and sanitation infrastructure
- WSP had to pre-finance the investment and only received OBA grant on delivery of results

Project Structure (Kenya OBA Fund)



OBA subsidy combined with partial credit guarantee supports domestic lending to water service providers

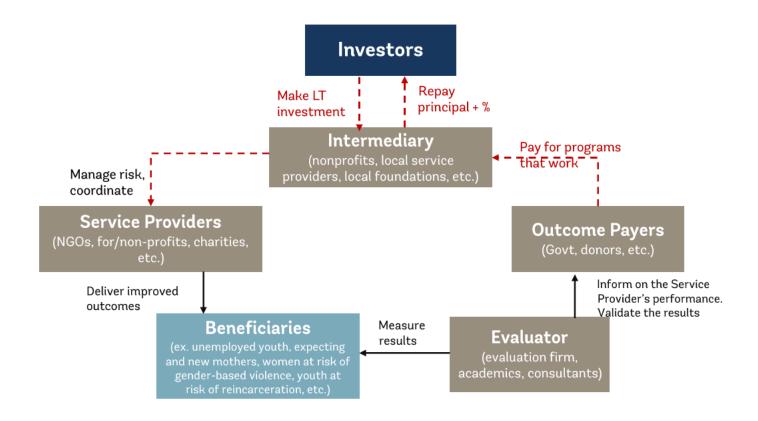
Results based financing can be applied to a wide range of PPPs



Increasing operator's time commitment and / or conducive context for PPP

Source: Suez (2014)

Impact Bonds: Financial Structure



Every impact bond is different, but all include the investor, service providers, outcome funder, and evaluator.



In Summary

- Results Based Financing is a broad-based approach where part of a payment (to government, utility, contractor) is linked to delivery of verifiable results
- Results based, performance based, incentive basedmany terminologies
- RBF can be applied at the sector level and at the project level
- The degree of risk transfer can be wide ranging from a "bonus" through to material risks linked to capex and opex payments
- Changes stakeholder mindset from "what shall we build?" to "what do we want to achieve from this investment?"
- RBF approaches will typically result in faster, more efficient, more effective and more sustainable solutions





Question and Answer



Climate financing for sanitation and water – An overview

Prepared and presented by John Garrett, Senior Policy Analyst – WaterAid

With support of Jose Gesti Canuto, SWA Adviser





Climate finance for resilient and pro-poor water and sanitation services

John Garrett Senior Policy Analyst – WaterAid

Climate finance and WSS

- 1. Climate change impacts the **sustainability** of water supply and sanitation services
- Climate finance presents an unexploited
 opportunity to renew focus on resilient development
- 3. Changes are needed to ensure adaptation finance is of sufficient volume, targeted at the poorest and spent effectively.

A complex landscape...

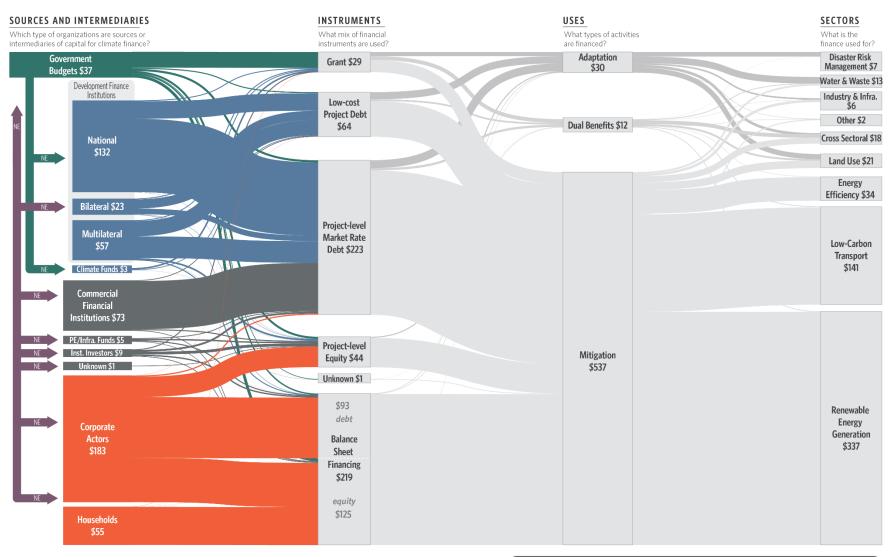
Global climate finance flows along their life cycle in 2017 and 2018. Values are average of two years' data, in USD billions

LANDSCAPE OF CLIMATE FINANCE IN 2017/2018

Global climate finance flows along their life cycle in 2017/2018. Values are average of two years' data, in USD billions.









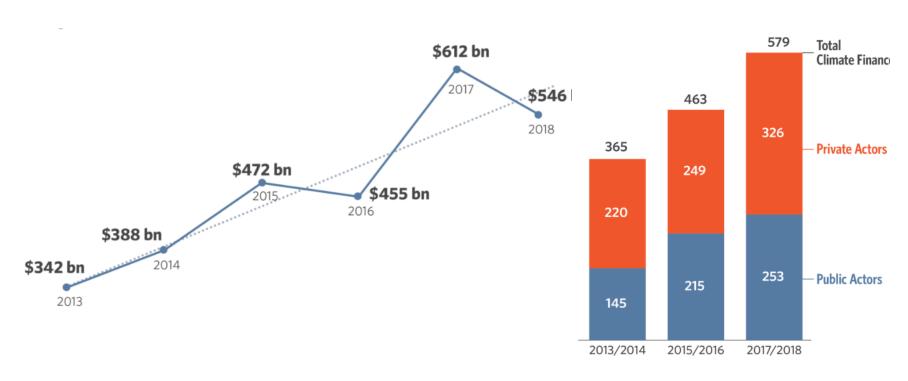






...but climate finance presents a powerful opportunity

TOTAL GLOBAL CLIMATE FINANCE FLOWS 2013 -2018

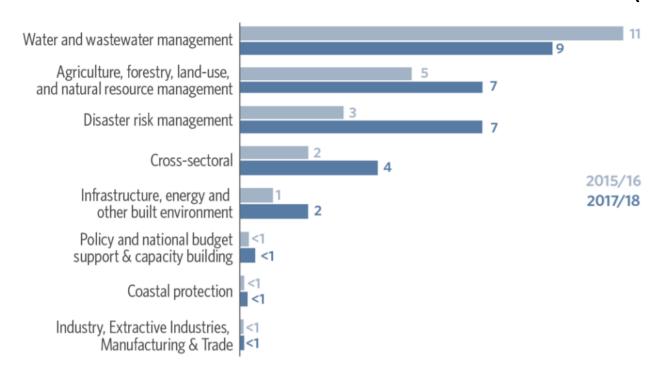


Source: Climate Policy Initiative



WASH and Adaptation financing

PUBLIC ADAPTATION FINANCE BY SECTOR 2015 - 2018 (USD billion)

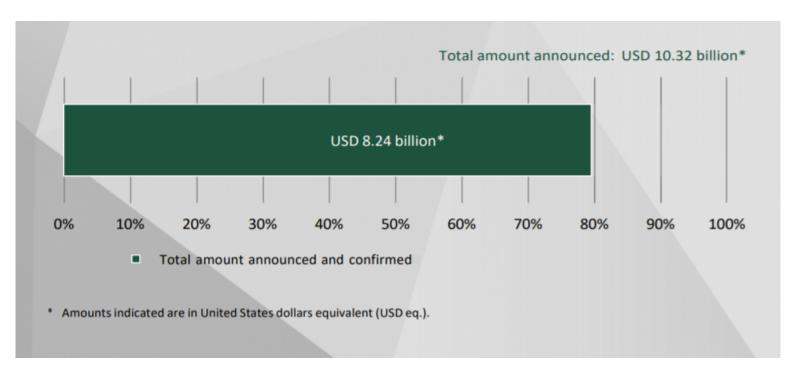


Source: Climate Policy Initiative



...money for climate action is taken from aid budgets (ODA)

STATUS OF GREEN CLIMATE FUND PLEDGES AND CONTRIBUTIONS (As of February 2020)



Prepared and Presented by Chibesa Pensulo, Water Specialist, GCF





CLIMATE FINANCE FOR WASH - THE ROLE OF GCF



CHIBESA PENSULO
GCF WATER SPECIALIST

SANITATION AND WATER FOR ALL (SWA) WEBINAR SERIES MARCH 2020



GCF's MISSION

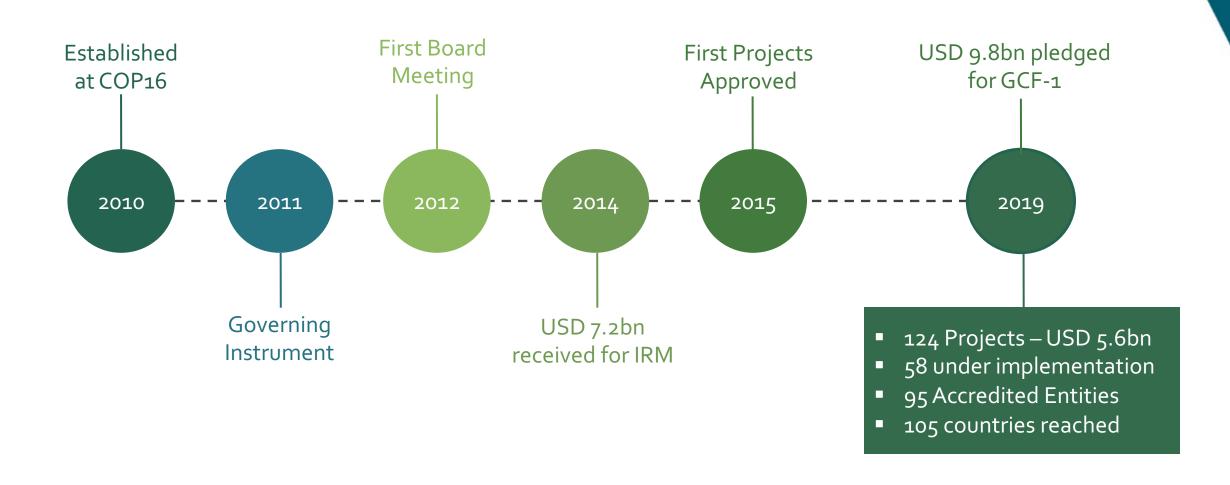
As an operating entity of the UNFCCC financial mechanism



to promote a **paradigm shift** to low-emission and climate-resilient development



A BRIEF HISTORY





















































Communauté du Pacifique







































































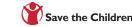


















































CLIMATE IMPACTS ON WASH SYSTEMS

Climate effect	Hazard	Impact on WASH sector
Decrease in precipitation	Drought	Reduction in raw water supplies, reduced flow in rivers, less dilution/increased concentration of pollutants in water, challenge to hygiene practices.
Increase in precipitation and severe weather	Flooding	Pollution of wells, inundation of wells, inaccessibility of water sources, flooding of latrines, damage to infrastructure, landslides around water sources, sedimentation and turbidity, challenges to sustainability of sanitation and hygiene behaviours, and waterborne diseases.
Increase in temperatures	Heatwaves	Damage to infrastructure, increase in pathogens in water leading to increased risk of disease.
	Melting and thawing of glaciers, snow, sea ice and frozen ground	Seasonality of river flows affected leading to a reduction in water availability in summer.
Sea -l evel rise	Flooding and saline intrusion into freshwater aquifers	Reduction in availability of drinking water, with high impacts on quality.

Source: GWP and UNICEF, 2014



GCF'S INTEREST IN WASH

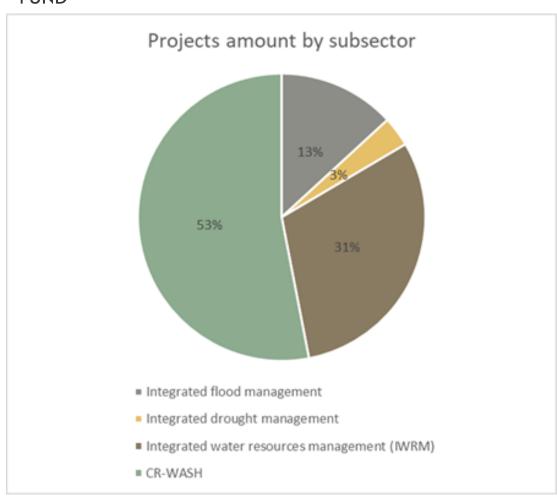
GCF's interest in WASH is in enhancing the **climate resilience of WASH systems** and **maximizing emissions reductions** therefrom.

Location	Examples
Water quality	Improving resilience of protected wells to flooding; small-scale systems for treating storm water; gully protection and rehabilitation; participatory water quality testing; treating water at the household level; water safety planning.
Water quantity	Increasing water storage, e.g. small multipurpose reservoirs and sand storage dams; rainwater harvesting technologies and artificially recharging aquifers; solar power water pumping; water conservation; increasing number of boreholes; water recycling and reuse.
Sanitation and hygiene	Raised pit latrines; septic tanks; relocation of latrines; small-scale biological systems; climate risk informed pre-triggering in community-led total sanitation approaches.
Enabling environments	Capacity building, e.g. knowledge generation and dissemination; hygiene education; decentralised management; national and local WASH sector coordination platforms that address development, DRR and emergency issues; integration of climate resilience into WASH sector strategies and plans; promotion of integrated water resources management.

Source: GWP and UNICEF, 2014



WASH IN THE GCF PORTFOLIO



- CR-WASH projects make up 53% of GCF's water portfolio, with approximately 300 million USD allocated to WASH projects, coupled with 485 million USD in co-financing.
- Six of the seven projects are in SIDS, where water supplies are threatened by multiple types of extreme weather events – floods, drought, hurricanes and storm surges.



WASH IN THE GCF PIPELINE

- At the start of GCF-1, there are 14 CR-WASH projects in the pipeline, requesting \$622 million in GCF funding.
- Half of the projects are in Africa, mostly in response to drought. The rest are spread across the Caribbean, South Asia and the Pacific, responding to different climate hazards.
- GCF is drafting sub-sectoral guidance for countries to develop CR-WASH projects that meet both climate and sustainable development objectives.
- Improved guidance for project design, enhanced country programming and NAP support, are expected to grow the pipeline for CR-WASH over GCF-1.





KEY REQUIREMENTS FOR WASH PROJECTS

- Clear climate science basis historical data and projections
- Quantifiable adaptation and/or mitigation impact potential, beyond 'business as usual' development project
- Paradigm shift potential to transform the whole WASH sector in the target country
- Evidence that the project will not worsen future water scarcity
- Water projects should include sanitation interventions, and viceversa
- Project design based on full water cycle e.g. groundwater recharge as well as abstraction
- WASH system powered at least partially by renewable energy



For more information, visit www.greenclimate.fund

Quick links:

GCF 101

GCF project portfolio

Simplified Approval Process (SAP) guidelines

Project Preparation Facility

Contact: Chibesa Pensulo

GCF Water Specialist

cpensulo@gcfund.org



Ethiopia's experience

Prepared and Presented by Abiy Girma, National ONE WASH Coordinator





SANITATION AND WATER FOR ALL



Financing to eliminate inequalities

General

- One WASH National Programme (OWNP): Main instrument for GoE to achieve the GTP II and SDGs WASH targets.
- The OWNP has become complex, with more multi-sector interfaces;
 a strategic approach is provided for reaching OWNP objectives
 (internal factors and external influences)
- Program's Development objective is climate resilient improved WASH access and adoption of good hygiene practices in an equitable and sustainable manner.
- Supported by DPs and CSOs is a basket funding instrument managed by Gov't in a consolidated WASH Account (CWA).

Program Components

Capacity Building

Program Pillars

Guiding principles



Capacity development

Capacity Harmonization

Partnership

Expansion or Elaboration of OWNP- Phase II

- Sustainable Sanitation & Hygiene for urban and rural areas is well elaborated emphasize on gender, equity, persons with disabilities and baby WASH
- Elaboration on cross cutting issues (water, quality, environmental safeguard, equity in WASH (gender, refugees, disability and other vulnerable groups)
- Climate resilient WASH is elaborated with
 - Two pertinent approaches
 - a. Securing water resource and improve sustainability
 - b. Management system and supply chain
 - Three- sub components
 - a. Water resources mapping, planning and monitoring
 - b. Climate resilient solutions
 - c. Emergency preparedness, early response and recovery

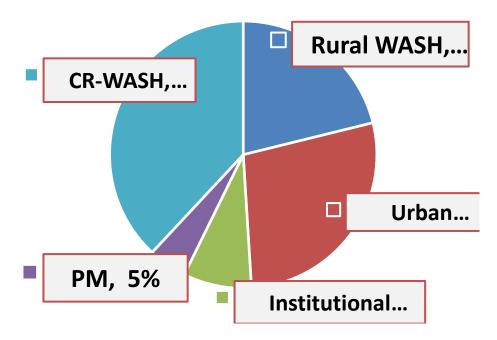


Current Status of WASH Sector Financing in Ethiopia

- Ethiopia requires US\$ 3.4 billion per year to achieve the WASH SDG targets
- OWNP Phase II (2018-2020): US\$ 6.5 billion is required of which a total of US\$2.5 billion is allocated for the CR-WASH (50% from GoE)
- Significant gap in cost recovery: partial cost recovery (80 % max) is applied only in urban areas (rural areas pay part of O&M)
- Efforts are underway to **strengthen revolving fund mechanisms** under WRDF (strategy document under preparation)
- GoE will continue the mutual accountability mechanisms for proper coordination of stakeholders through JTR and MSF platforms

Cost of the OWNP phase II by component

Estimated Total Cost for the short-to-medium term work for the five cost centers is estimated at US\$6.5 billion.



Annual expenditure to achieve SDGs (or equivalent Ethiopia standard) by 2030 is estimated at around US\$3.4 billion per year

Cost Sharing by Stakeholders



Note: Community contribution Rural 5% in Cash and 5% in labour and kind

Proposed solutions to narrow financing gaps

- **Diversification of financing modalities** (3ts taxes, tariffs, & transfers)
- Tapping climate finance and humanitarian nexus funding including
 GCF
- Enhance **private sector investment through PPP** modality (PPP Proclamation is approved in 2018)
- Accessing commercial loan & revolving fund through -- WRDF & MFI
- Apply sanitation levy fund
- Increased local financing mechanism including:
 - —Improve tariff & revenue collection: reduce high levels of NRW, poor tariff setting, business plan and operating costs
 - —Increase community contribution (in-kind & cash) on capital investment

What has worked & not worked on financing

- OWNP and CWA is functioning well and more DPs are joining in......
- Due to increased popularity of OWNP, public financing has doubled in 10 years
- WRDF is operating well in terms of providing access to WASH financing to cities/towns but lacks funding for rural areas
- Private sector investment and commercial loans are slowly increasing- challenges are:
 - low tariff in urban water supplies
 - limited capacity to pay of the public
 - Lack of PPPs legal framework
- Exploring PPP and private sector financing opportunities

OWNP –CWA Phase II components and % Allocation

No	Major Components	%
1	R - WASH	24%
2	U - WASH	18%
3	I - WASH	14%
4	CR-WASH	31%
5	PM	8%
6	Unallocated/allocate	6%
	for best performed	
	Total Cost	100%







Thank You!

Question and Answer



SWA Webinar

Incentive Based Financing to end inequalities and Climate Financing for sanitation and water

3-5 March 2020



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