



Resources

A review of resources and publications on WASH in developing countries



This edition of Resources contains a selection of reports, knowledge management documents, scientific journal articles, etc. that pS-Eau has collated over the last few months. This 13th issue focuses on water and sanitation service funding, water and sanitation services and gender, and water and sanitation services in crisis situations (security risks, population displacement, climate change and natural hazards).

The pS-Eau team

WATER SUPPLY SERVICES - PAGE 2

SANITATION SERVICES - PAGE 3

WATER AND SANITATION, HYGIENE AND HEALTH - PAGE 4

WATER RESOURCE MANAGEMENT AND PROTECTION - PAGE 5

SPECIFIC TOPICS

WATER AND SANITATION SERVICE FUNDING - PAGES 6 & 7

WATER AND SANITATION SERVICES AND GENDER - PAGES 8 & 9

WATER AND SANITATION SERVICES IN CRISIS SITUATIONS PAGES 10 & 11

WATER SUPPLY SERVICES

Etude qualitative des pratiques et des freins à une gestion pérenne des petites infrastructures d'adduction en eau potable dans le Sud de Madagascar

MSF, Anna Panizzoli, March 2023 (French)

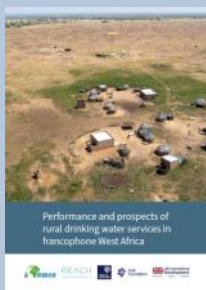


This study explores the factors underlying the gaps seen in the quality of water service infrastructure project management in Madagascar.

It includes recommendations for improving project management performance.

Performance and prospects of rural drinking water services in francophone West Africa

REACH, RWSN, Meleesa Naughton, Aline Saraiva Okello, Johannes Wagner, Sean Furey, Rob Hope, July 2023 (French, English)



This study examines the evolution of rural water supply policies and the performance of rural water service concessions in six countries of francophone West Africa: Benin, Burkina Faso, Mali, Mauritania, Niger and Senegal.

OUR PUBLICATIONS

Le pompage solaire, des repères pour l'action : options techniques et retours d'expériences.

pS-Eau: Perrine Bouteloup, Jérémy Guérin, Ana Sanchez (pS-Eau), Clément Lugagne (Cicle), January 2023 (French)



Recent studies on the use of solar energy to help develop water services have been prompted by sustainable development-related concerns and the need to control operating costs. Photovoltaic technology has evolved significantly over recent years, resulting in greater energy efficiency and lower investment and operating costs. This guide provides an overview of the factors to be taken into consideration when including solar energy in community water supply projects.

Note n°1 : Organisation des services d'approvisionnement en eau dans le cas d'intercommunalités au Burkina Faso



Note n°2 : Interactions entre collectivités territoriales et délégataires privés, retours d'expériences au Burkina Faso

pS-Eau, Perrine Bouteloup, July 2023 (French)

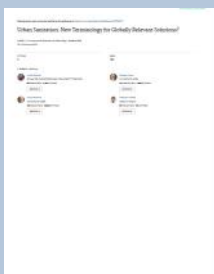


These notes were produced following a seminar held in Ouagadougou on 4th and 5th April 2023, which was organised by the ACTEA network with financial support from the Syndicat de Eaux d'Île-de-France (SEDIF).

SANITATION SERVICES

Urban Sanitation: New Terminology for Globally Relevant Solutions?

Environmental Science and Technology, Linda Strande et al., Oct 2023 (English)



This publication looks at the impact that using sometimes inaccurate and ambiguous terminology to define different sanitation solutions can have on the effectiveness and relevance of the systems put in place. It argues that there is a need to agree on or redefine the terminology adopted.

Wastewater Treatment in Island Locations

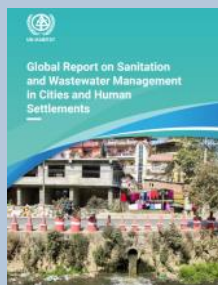
ARBE, SMILO, Stéphanie Prost-Boucle, Nicolas Wepierre, January 2023 (French, English)

This guide provides recommendations to inform the decisions of the managers of small islands wishing to reduce the impact of wastewater on their environment by introducing suitable sanitation technologies.



Global Report on Sanitation and Wastewater Management in Cities and Human Settlements

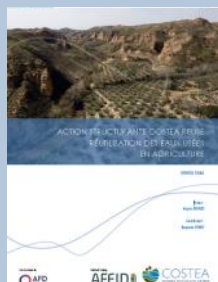
UN-Habitat, June 2023 (English)



This report details case studies of wastewater and faecal sludge management systems. It addresses how authorities are engaging with different thematic areas in support of three core functions: resource planning and management; responsibilities and accountability; climate resilience and innovation.

COSTEA REUSE Structuring Action: Wastewater Reuse in Agriculture - Final Report

COSTEA, Jacques Beraud, Nov 2022 (French, English)



COSTEA (the French Scientific and Technical Committee for Agricultural Water), led by the French Association for Water, Irrigation and Drainage (AFEID) and funded by the AFD, is a network that seeks to promote the sharing of knowledge and experience among irrigation stakeholders to support agricultural water activities and policies. This report documents its 'structuring action' of reusing wastewater for agricultural irrigation.

Guide à la décision pour la mise en œuvre d'un projet REUT - Réutilisation d'Eaux Usées Traitées

BRL ingénierie, Pierre SAVEY Delphine MARTY, Geoffrey FROMENT, Sophie MERAT, 2022 (French)



This guide focuses on designing a versatile sector for the controlled reuse of treated wastewater for a range of purposes in France and the Mediterranean basin. It is aimed at the managers of future projects and all stakeholders wishing to get involved in or promote the implementation of this type of project.

Water Reuse in the Middle East and North Africa, a sourcebook

IWMI, Javier Mateo-Sagasta, 2022



This guide highlights the main factors that will contribute positively to the development of wastewater reuse projects, such as: participatory processes; economic and finance models that improve cost recovery and sustainability; effective and adequate policies and regulations; risk management measures and gender mainstreaming.

WATER, SANITATION, HYGIENE AND HEALTH

Sanitation, Hygiene and Environmental Cleanliness for Child Development

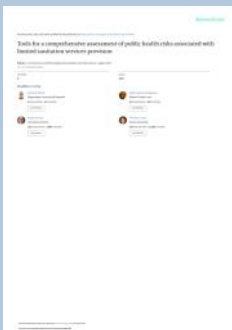
IDS, *Frontiers of Sanitation: Innovations and Insight 19*, Macintyre, A. and Strachan C., 2022 (French, English, Spanish)



This edition of *Frontiers of Sanitation* draws on the Transformative WASH concept to explore what may be required of WASH implementation stakeholders in efforts to support child development outcomes.

Tools for a comprehensive assessment of public health risks associated with limited sanitation services provision

ResearchGate, Daniel A. Okaali, Najib Lukooya Bateganya, Barbara Evans, Christine L Moe, August 2022 (English)



Three analysis tools were applied to Kampala city, Uganda, to evaluate areas with the highest health hazards due to poor

wastewater and faecal sludge management and to develop interventions to improve sanitation and reduce exposure. The three analysis tools used were the Pathogen Flow and Mapping Tool (PFMT), HyCRISTAL Health Hazard, and SaniPath.

Can open-defecation free (ODF) communities be sustained? A cross-sectional study in rural Ghana

Ed. Columbia University - Palisades, Caroline Delaire, 2022 (English)



This study examines the extent to which levels of toilet ownership and use were sustained in 109 rural communities in northern Ghana up to two and a half years after they had achieved ODF status. The study looks at the factors behind the reversion to open defecation.

Household choices of sanitation infrastructure and impact on disease in India

Sage Journals, Piyush Tiwari et al., April 2022 (English)



This article examines the factors influencing households' choice of toilet facility and the link with disease using the 76th round of the survey administered by the National Sample Survey Office for 2018-2019. The results indicate that social, economic and cultural factors have a significant impact on the households' choice of a toilet.

Predictors of pre-and post-care handwashing among community healthcare providers: a cross-sectional survey in Bangladeshi community clinics

IWA, Kamrul Hsan et al., 2023 (English)



This report sets out the results of a cross-sectional study conducted among 128 community healthcare providers in the Kurigram district of Bangladesh to investigate predictors of handwashing before and after clinical care encounters.

Investigation on children's handwashing behaviour and contamination levels in rural Cambodia

IWA, Gaku Manago et al, October 2023 (English)



This report documents a study carried out to investigate children's handwashing behaviour. It also assessed contamination levels and the quality of the water sources used for handwashing in rural Cambodia.

WATER RESOURCE MANAGEMENT AND PROTECTION

La recherche d'une synergie vertueuse des entrées "services" et "ressources", autour de l'eau; réflexion d'un opérateur de développement

GRET, Louisa Desbleds, Mathieu Le Corre, Valérian Juillet, March 2022 (French)



This note explores the possible links between a service-based entry point and a resource-based entry point from an Integrated Water Resources Management (IWRM) perspective.

Gire locale dans la zone des Niayes au Sénégal – Faire commun autour des ressources en eau ?

GRET, Louisa Desbleds et al., February 2023 (French)



This booklet examines five years of an Integrated Water Resources Management pilot project conducted in the Niayes region of Senegal.

Atlas des grandes questions scientifiques sur l'eau en Afrique de l'Ouest et du Centre

Pôle Eau de Dakar, Issa Sakho, et al., March 2022 (French)



This atlas reviews the scientific issues that shape the topic of water at the local and community levels of a number of transboundary river basins (Senegal River Basin, Gambia River Basin, the Senegal-Mauritania aquifer) and national basins (Casamance, Sine-Saloum). The findings of this review are then used to help define scientific research opportunities.

The United Nations World Water Development Report - WWDR 2023: Partnerships and Cooperation for Water

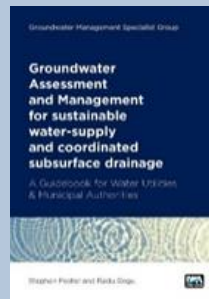


- Full Report
- Facts and Figures
UN-Water, UNESCO, March 2023 (French, English)

This report provides a direct basis for Conference of the United Nations discussions by describing how building partnerships and enhancing cooperation across every dimension of sustainable development are essential components for accelerating progress towards achieving Sustainable Development Goal 6 on water and sanitation and realising the human rights to water and sanitation.

Groundwater Assessment and Management for sustainable water-supply and coordinated subsurface drainage: A Guidebook for Water Utilities & Municipal Authorities

IWA, Stephen Foster and Radu Gogu, 2022 (English)



This guide highlights what water utilities and municipal government can do to improve groundwater assessment, management

and monitoring.

OUR PUBLICATIONS



Note de synthèse: Développer les services d'eau et d'assainissement, en intégrant une approche « gestion et protection des ressources en eau »

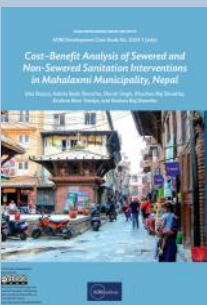
pS-Eau, Carole Chemin, December 2023 (French)

This note examines the challenges involved in developing water and sanitation services using a 'water resources protection and management' approach. It provides recommendations and resources for action aimed specifically at decentralised cooperation and non-governmental stakeholders.

WATER AND SANITATION SERVICE FUNDING

Cost-Benefit Analysis of Sewered and Non-Sewered Sanitation Interventions in Mahalaxmi Municipality, Nepal

ADB Development Case Study No. 2023-1, Isha Basyal, Kabita Bade Shrestha, Shirish Singh, Bhushan Raj Shrestha, Krishna Ram Yendyo, and Roshan Raj Shrestha, July 2023 (English)



This report

assesses the economic viability of various sanitation interventions through a cost-benefit analysis in the Mahalaxmi municipality of Nepal.

Water funds within village savings and loans associations: A promising solution to improve water user fee collection in rural Uganda

Aquaya, University of Western Australia, Katherine Marshall, Karen Settyl, Allan Mutegeki, Rachel Peletzl, Ranjiv Khush2, Caroline Delairel, April 2023 (English)



This study examines the way in which, and how effectively, volunteer committees in 10 villages in Kabarole district, Uganda, collect water fees and maintain water points.

This study examines the way in which, and how effectively, volunteer committees in 10 villages in Kabarole district, Uganda, collect water fees and maintain water points.

Will Households Invest in Safe Sanitation? Results from an Experimental Demand Trial in Nakuru, Kenya

IJERPH, Rachel Peletzl, Caroline Delaire, Joan Kones, Clara MacLeod, Edinah Samuel, Alicea Easthope-Frazer and Ranjiv Khush, February (English)



This study compares the stated and revealed willingness to pay for high-quality pour-flush latrines among households in low-income areas in the city of Nakuru, Kenya.

This study compares the stated and revealed willingness to pay for high-quality pour-flush latrines among households in low-income areas in the city of Nakuru, Kenya.

The Spillover Effects of Water Supply Infrastructure Development: A Theoretical Model

ADB, Naoyuki Yoshino, Santi Setiawati, Tifani Siregar, KE Seetha Ram, and Dina Azhgaliyeva, March 2023 (English)



This report develops a theoretical model of the spillover effects of water supply infrastructure developments. The model shows how the incremental tax revenues previously absorbed by the government only could be partly shared with water supply systems' investors and operators.

This report develops a theoretical model of the spillover effects of water supply infrastructure developments. The model shows how the incremental tax revenues previously absorbed by the government only could be partly shared with water supply systems' investors and operators.

Policy Brief: National Public Development Banks (PDBs): Key Actors Financing Water and Sanitation

AFD, March 2022, Olivier Crespi Reghizzi (French, English)



This Policy Brief provides recommendations for national public development banks (PDBs) and their shareholder governments. PDBs are in the public sphere by virtue of their mandate, ownership structure or their governance. PDBs have a specific mandate to contribute to public policy goals in order to promote the economic and social development of a country or a region.

Mobilising Capital for Water: Blended Finance Solutions to Scale Investment in Emerging Markets

Systemiq, May 2022 (English)



This report explores how water sector actors can boost global investment in water with blended finance solutions.

WATER AND SANITATION SERVICE FUNDING

Results-based funding for safe drinking water services: How a standard contract design with payment for results can accelerate safe drinking water services at scale

REACH, Uptime, Andrew Armstrong & Katrina Charles & Rob Hope & Duncan McNicholl & Kristina Nilsson & Saskia Nowicki, September 2023 (English)



This working paper presents an approach that advances contracts for results-based funding to incentivise the delivery of drinking water services. Standardised metrics for water quality, volume and revenue are proposed within a framework for ensuring protected and reliable drinking water services.

Long-Term Financing for City-Wide Inclusive Sanitation

ADB, Dwiky Wibowo et al., November 2023 (English)



This paper is based on a policy debate organised by the Asian Development Bank Institute (ADB) and Stanford University, in cooperation with the Bill & Melinda Gates Foundation, the Asia Pacific Water Forum and development partners, to discuss the challenges and opportunities of city-wide inclusive sanitation (CWIS). This CWIS concept involves providing safe, equitable and sustainable sanitation infrastructure and services for all citizens, regardless of their socio-economic status, and including those living in informal settlements and low-income areas.

The Impact of Pro-Poor Sanitation Subsidies in Open Defecation-Free Communities: A Randomized, Controlled Trial in Rural Ghana

Research, John T Timmer et al., June 2022 (English)



This article presents a study to determine the impacts of a pro-poor sanitation subsidy programme on sanitation conditions among the most vulnerable households in the community. The main objectives of this study were to identify the extent to which this pro-poor sanitation subsidy programme has improved sanitation conditions among the most vulnerable households, and determine the extent to which these improvements have had an impact on other households.



WATER AND SANITATION SERVICE AND GENDER

Menstrual Health and Hygiene in the context of sustainable development

Hochschule Rhein-Waal - Kleve
Louisa van den Bosch, January 2023 (English)



This thesis aims to investigate how menstrual health and hygiene is outlined in the context of sustainable development.

Les communs de l'eau et les communs urbains au prisme du genre

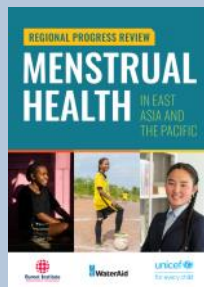
AFD, Maxime Forest, August 2023 (French)



This research paper studies water commons and urban commons from a gender perspective, which includes all the social and symbolic hierarchies associated with the division of gendered roles.

Menstrual Health in East Asia and the Pacific: Regional Progress Review

Burnet Institute, UNICEF, WaterAid, Alexandra Head, Chelsea Huggett, Pisey Chea, Heather Suttor, Brooke Yamakoshi and Julie Hennegan, May 2023 (English)



This report presents the findings of a regional review of progress made towards supporting menstrual health needs in 19 countries in the East Asia and the Pacific region between 2016 and 2022.

Gender Equality and Social Inclusion in Community-led Multiple Use Water Services in Nepal

IWMI, Barbara van Koppen et al, January 2022 (English, French)

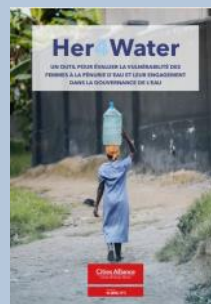


This paper traces how the Nepali government and non-governmental organisations working in the water, sanita-

tion and hygiene (WASH), irrigation and other sectors have joined forces since the early 2000s to address gender equality and social inclusion challenges by innovating community-led multiple-use water services (MUS). This paper focuses on women in vulnerable households.

Her4Water, un outils pour évaluer la vulnérabilité des femmes à la pénurie d'eau et leur engagement dans la gouvernance de l'eau

Cities Alliance, January 2023 (French)



This guide provides a gender knowledge base to raise the awareness and build the capacities of local actors to collect and analyse gender

-disaggregated water data. Its aim is to contribute to the development of more inclusive and sustainable water policies.



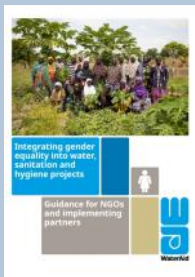
WATER AND SANITATION SERVICE AND GENDER

Who Benefits from Piped Water in the House? Empirical Evidence from a Gendered Analysis in India

ADB, Ashish Kumar Sedai, June 2021 (English)



This study demonstrates the importance of considering piped water supply as a right as part of a broader strategy to reduce gender differences.



WaterAid, August 2022 (English)



Integrating gender equality into water, sanitation and hygiene projects - Guidance for companies

WaterAid, May 2022 (English)

These guidance notes aim to support companies, NGOs and implementing partners to turn strategic commitments on community WASH and gender equality into integrated projects.

Gender Equality and Climate Resilience: Foundations for water, sanitation and hygiene for all

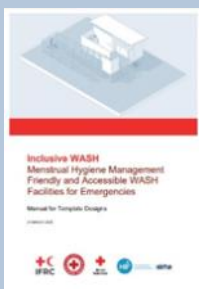
WaterAid, Kathryn Pharr & Sue Cavill & Tara Bartnik & Chelsea Huggett, April 2023 (French, English, Spanish)



This report highlights some key opportunities and approaches for applying a gender-responsive and climate resilient lens to WASH.

Menstrual Hygiene Management Friendly and Accessible WASH Facilities for Emergencies: Manual for Template Designs

The Red Cross, LCR, Elrha IFRC Alexandra Machado Soergel, March 2022 (English)



This manual provides guidance on the best way to sensitively and effectively meet the menstrual hygiene needs of women and girls.

Cross-sectoral benefits of action in sanitation — Policy brief

UCL WaterAid, February 2023 (French, English, Spanish)



This report outlines the cross-sectoral benefits of action in sanitation all along the sanitation chain that have a positive impact in other sectors, particularly health, education, industry, climate change and gender equity.

Cross-sectoral benefits of action in sanitation—Case studies

UCL WaterAid, February 2023 (French, English, Spanish)



This collection of three case studies provides practical insights into how multiple benefits are achieved, where commonly missed opportunities exist, and how equitable outcomes are leveraged through action in sanitation.

WATER AND SANITATION SERVICES IN CRISIS SITUATIONS

SECURITY RISKS, POPULATION DISPLACEMENT, CLIMATE CHANGE AND NATURAL HAZARDS

Guide Technique Eau, Hygiène et Assainissement en Situation d'urgence au Mali

Cluster Wash, July 2023 (French)



The aim of this guide is to provide a framework for national and international technical assistance to ensure that the emergency WASH response is tailored to the situation in Mali.

It contains three technical guidelines, for water, sanitation and hygiene, along with associated infrastructure and facilities models, as well as hygiene kits.

Environmental, social, and WASH factors affecting the recurrence of cholera outbreaks in displacement camps in Northeast Nigeria: a rapid appraisal

IWA, Kamrul Hsan, July 2023 (English)



This rapid appraisal explored factors that facilitate the recurrence of cholera outbreaks in sites hosting internally displaced persons (IDPs)

in Northeast Nigeria. It highlights the vulnerability of IDP camps to extreme weather-related events, which affect WASH practices. It also emphasises the importance of expanding WASH activities to host communities.

Burkina Faso : quelle pérennité financière des services publics d'eau potable en temps de crise ? - Rapport de recherche

Groupe URD, Aline Hubert, Louise -Anne Go, November 2022 (French)



This report examines how the security and humanitarian crisis in Burkina Faso has destabilised water services' organisational and economic models. It also suggests courses of action, particularly via international assistance.

OUR PUBLICATIONS

Note de synthèse: Le secteur du développement dans le domaine de l'eau et l'assainissement face aux situations de crises et d'urgence

pS-Eau, Jérémy Guerin, September 2023 (French)



In regions experiencing major upheaval at various levels (areas at risk of terrorist attacks, the weakening of local authorities, population displacements, etc.), it can be challenging for French NGOs and decentralised cooperation actors to determine how best to identify and set up relevant partnerships and projects. This paper presents possible options and courses of action for the water and sanitation sector, as this provides essential services for which a long-term local technical, organisational and financial support structure is required to ensure sustainability.

WATER AND SANITATION SERVICES IN CRISIS SITUATIONS

SECURITY RISKS, POPULATION DISPLACEMENT, CLIMATE CHANGE AND NATURAL HAZARDS

Co-developing evidence-informed adaptation actions for resilient citywide sanitation: Local government response to climate change in Indonesia

Sage Journals, Juliet Willetts et al., 2022 (English)



This paper describes a co-production research process which engaged local governments in four cities in Indonesia experiencing different climate

hazards.

The Overlooked Solution: Strengthening climate resilience through sanitation systems – policy brief

WaterAid, Kathryn Pharr, Thérèse Rudebeck, July 2023 (French, English, Spanish, Portuguese)

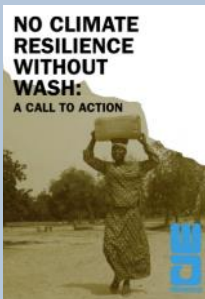


This report sets out the need to take a systems-wide perspective to building climate resilience along the entire sanitation chain and highlights key opportunities and approaches to achieve this.

opportunities and approaches to achieve this.

No Climate Resilience without WASH: A Call to Action

WaterAid, October 2022 (French, English)



This briefing note aimed at policymakers and experts in both the climate and WASH sectors proposes recommendations for developing climate resilient services in West Africa.

Nexus Urgence et Développement dans le cadre de la crise humanitaire au Burkina-Faso

Experts Solidaires, Jean Pierre Mahé, January 2023 (French)



This paper focuses on the link between emergency and development interventions by examining a range of projects implemented in

Burkina Faso.

Gestion Intégrée du Risque Inondation (GIRI) à l'échelle du quartier dans les villes africaines

AFD, Sylvain Meslier & Marie Morel & Bruno Valfrey, May 2023 (French)



By reviewing the successes and problems encountered during three pilot projects, this booklet seeks to outline:

- How Integrated Flood Risk Management (IFRM) principles can be adapted for settlements in African cities constructed in low-lying flood plains or next to rivers;
- The role of NGOs or other international solidarity actors within this IFRM approach by involving local communities and institutional stakeholders;
- The factors that facilitate the success of these projects.

To download a document, click on the title.

To view the full list of documents and their references on our database, please click [here](#).

Resources

A review of resources and publications on WASH in developing countries



As there is a constant wealth of information being produced on the WASH sector, we regularly compile and publish *Resources*, a short literature review available in both French and English. Although by no means exhaustive, we hope that this selection of resources and articles from recent French and English publications will provide you with some practical and easily accessible references.

Find all previous issues at:
www.pseau.org/fr/biblio-ressources

