



Water and Wastewater Management



Over 50 years of high quality results together with our partners

Water and Wastewater Management

Since its establishment in 1949, Finnish Consulting Group (FCG) has focused on environmentally and socially sustainable development, as well as support for the advancement of national institutions responsible for physical infrastructure and societal well-being. We provide services covering the entire project cycle worldwide in Africa, Asia, Europe, the Middle East, the Pacific and Latin America, having implemented more than 5 000 projects in 150 countries across the globe.

FCG is a leading consultancy company in providing water and wastewater management solutions in Finland and internationally. FCG has long-standing international expertise in the sector, delivering quality services at the highest international standards. We specialise in water resource management, urban and rural water supply, water and sewerage utilities, capacity development, designs and construction supervision for water networks, wastewater networks and their respective treatment plants, sectoral studies and policy development. Our strength lies in a local market presence, a versatile international experience and in a highly experienced and qualified staff.

Examples of Selected References

Nepal

Rural Village Water Resources Management Project – MFA of Finland–Phase I 10/2006–8/2010, Phase II 9/2010–2/2016,Phase III 3/2016–2/2022

The Overall Objective of the phase III is 'Improved health and reduced multidimensional poverty within the project working area'. The project purpose is 'Universal access to basic WASH services, and improved livelihoods with establishment of functional planning and implementation frameworks for all water uses and livelihood in the project working area'. The project is a continuation from the two previous successful phases, and it also works closely with the other Finnish-funded WASH project, the Rural Water Supply and Sanitation Project in Western Nepal.

Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan

Water and Adaptation Intervention in Central and West Asia – ADB 3/2011–9/2013

The technical assistance had two phases: The first phase included the development of a knowledge base on likely climate impacts affecting the Amu Darya and Syr Darya river basins. The second phase included the development of regional capacity to utilize the outputs in regional, national, and river basin adaptation planning.

Turkey

Technical Assistance and supervision of Nizip Water and Wastewater Project – EuropeAid 5/2013–12/2017

The project as a whole aimed to achieve a high level of environmental protection and compliance with the EU wastewater sector directives and the establishment of a wastewater management system for the Nizip Municipality. This was accomplished in accordance with the Turkish Legislation and the EU acquis for reducing environmental pollution in the region. The specific aims of the project were the construction and supervision of the drinking water supply network replacement, as well as the extension and upgrade of the existing Nizip wastewater treatment plant.

Palestinian Territories

GZ-Emergency Capacity Building Project to the Palestinian Water Authority: Technical, Planning and Advisory Team in the Water and Sanitation Sector (TPAT) – WB, AFD & SIDA 7/2011–7/2014

The project aimed to assist the Palestinian Water Authority (PWA) in completing the water sector restructuring process, consolidating the sector reform as well as providing inputs and guidance in making the PWA and their respective institutions operational under the new legal and institutional

framework. The project supported the PWA in establishing service oriented sector institutions that apply participatory working methods and economic benefits to the population. This was all accomplished with a transparent poverty reduction perspective.

Finland

Turku Central Wastewater Treatment Plant – Turun Seudun Puhdistamo Oy, 9/2003–12/2012

FCG provided consulting services for the Turku Central Wastewater Treatment Plant, which included feasibility studies, detailed designs and preparations of tender documents. A modern treatment process was chosen to meet the strict Finnish and EU requirements. The treatment includes primary sedimentation, activated sludge reactors, secondary sedimentation and filtration as post-treatment.

Tanzania

Mbeya Urban Water Supply and Sanitation Project, Phase II – European Commission & KfW, 9/2006–6/2012

The Phase II project improved the rehabilitated water supply system by upgrading the existing facilities, continuing the reduction of water losses as well as developing additional production and distribution infrastructure. All activities were backed by supporting measures, including customer awareness campaigns and capacity strengthening of Mbeya Urban Water and Sewerage Authority (UWSA).

Vietnam

Ho Chi Minh City Wastewater and Drainage System Improvement Program – ADB, 3/2018–3/2019

Ho Chi Minh City's vulnerability to climate change exacerbates the need for proper drainage and wastewater management in the city. The preliminary outputs of the West Saigon catchment project include: a new interceptor system, new separate pipeline systems for storm run-off, a new wastewater pumping station and a strengthened institutional capacity. Additionally, further support has been provided to women's participation in climate resilience responses and to vulnerable local communities adapting to climate change.

Cambodia

Design study for the Third Rural Water Supply and Sanitation Services Sector Development Program – ADB 9/2017–2/2019

The project supports the government's commitment to expanding rural water supply and sanitation access while simultaneously leveraging difficult and critical decentralization reforms that are necessary to ensure that the investment loan (and other investments in the sector) is sustainable and meeting the objectives. The program

outcome will be: improved access to safe water supply, sanitation and hygiene for rural areas in selected priority provinces in Cambodia.

Ethiopia

Consultancy Services for Detail Design and Tender Document Preparation (Phase 1) for Sibilu Dam and Ancillary Structure, Pumping Station, Weserebi Treatment Plant and Transmission Main and Distribution System – WB 08/2017–11/2018

The Sibilu dam is a part of the solution to meeting the future water demands in Addis Ababa. The project undertakes the design of the Sibilu dam and ancillary structures, pumping station, Weserebi Water Treatment Plant (capacity 505 000 m³/d), transmission main and distribution network.

Uganda

Consulting Services for Development of Water Source Protection Plans – GIZ & Ministry of Water and Environment (Uganda) 08/2015–07/2016

The objective of the project was to protect the water sources of catchment areas in three Ugandan towns (Arua, Mbale and Bushenyi). This was done by supporting the Ugandan National Water and Sewerage Corporation (NWSC) in the development of agreed participatory water source protection plans with clear implementation, financing and monitoring strategies for each site.

Kenya

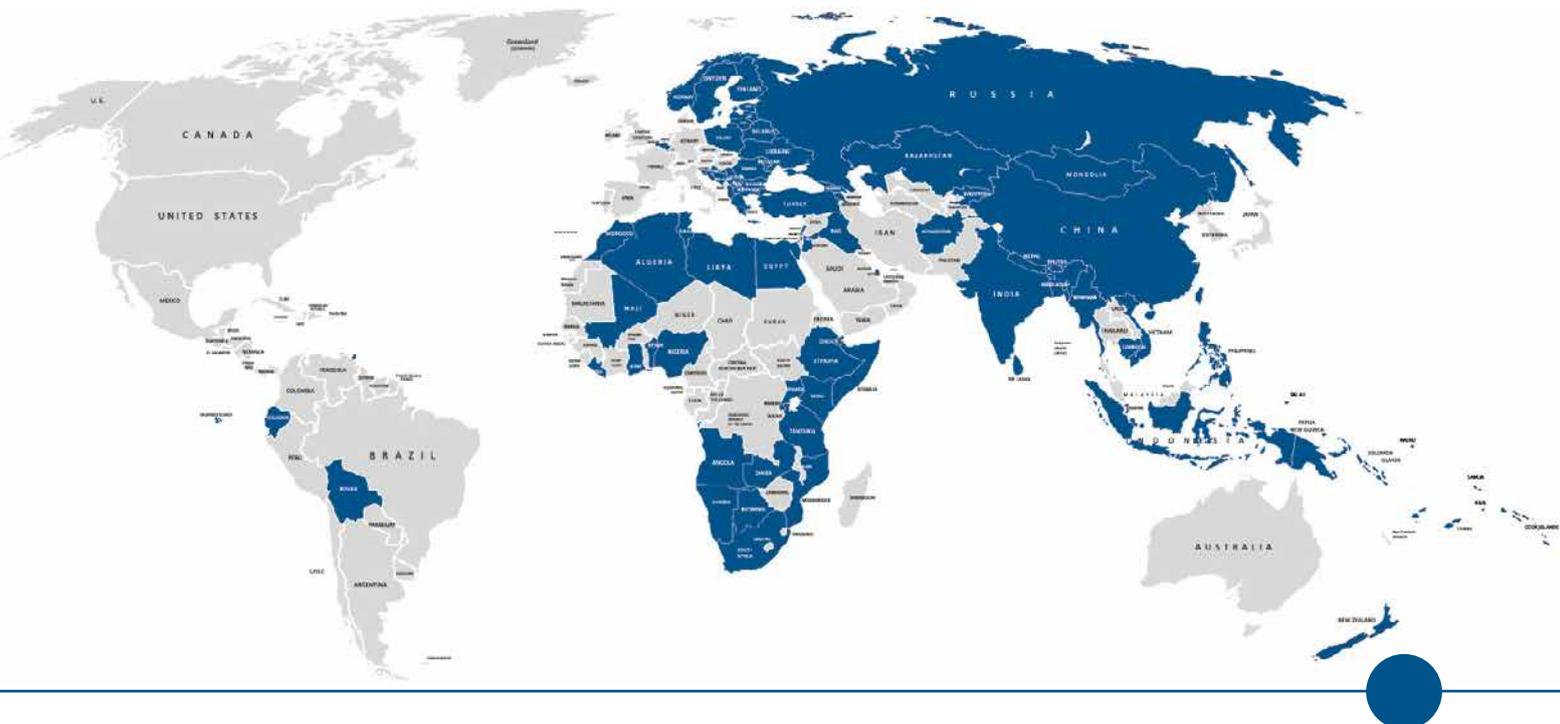
Technical Assistance for Equitable Access to Quality Water, Basic Sanitation and Enhanced Water Resources Management in Rural Kenya – MfA Finland, Sida & Gov. of Kenya – Phase I 8/2010–7/2013, Phase II 01/2015–1/2019

The overarching objective of the programme is to reduce social and spatial inequalities in water access in the rural areas of Kenya. It aims to achieve this objective by enhancing the capacity of counties to provide guidelines and support for integrated water, sanitation and hygiene initiatives in underserved communities, improving rural safe water coverage, improving rural sanitation coverage and enhancing institutional capacity of the Water Services Trust Fund.

Bangladesh

Irrigation Management Improvement Project – Muhuri Irrigation Management Operator – ADB & Gov. of Bangladesh 2016–2020

The objective of the project is sustained growth in irrigated agriculture through means of efficient and sustainable management of large scale irrigation schemes.



FCG – Working for well-being

FCG Group's expertise is founded on our long-standing global experience and the highest international standards. FCG International is a key provider of education, skills and innovation services, natural resources management, and water and energy sector solutions in Finland and globally, FCG ANZDEC brings in New Zealand expertise in agricultural sector development, FCG Sweden complements this with good governance expertise and FCG Asia with climate change expert services.

Our core expertise

- Water Supply and Sanitation
- Natural Resources Management and Environment
- Rural Development and Livelihoods
- Energy and Climate Change
- Education, Skills and Innovation
- Good Governance, Public Administration Reform and Institutional Development

We work with

- Municipal and national governments, public institutions
- Non-governmental organisations
- Semiprivate firms and private developers
- Bilateral donors
- International organisations including the WB, EU, EBRD, ADB, AfDB and UN

FCG's water sector expertise includes:

- Feasibility studies, development plans, process studies, automation and instrumentation studies
- Water supply and sewerage master plans for urban and rural areas
- Stormwater management engineering and modelling
- Process and capacity design
- Design and tendering documents for: Water supply, Waste water treatment, Sludge management Pumping stations, Biogas plants, Water and sewage networks and transfer lines
- Modelling of treatment processes, networks and automation
- Industrial wastewater surveys
- Risk Analysis and Water Safety Plans
- Support for water and wastewater utility management and benchmarking— financial and operational performance improvement (FOPIP)
- Water Quality Monitoring Programmes
- Institutional development & Training
- Social and Environmental Assessments & Audits

Covering the entire project cycle

- Identifications
- Preparations and Appraisals
- Reviews, monitoring and evaluations
- Project implementation and management

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