



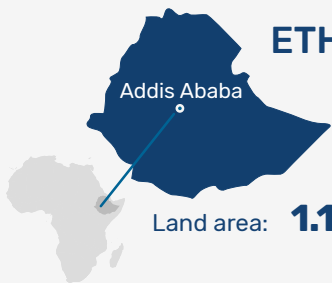
TRAIDE

Investment Opportunities in the Ethiopian Water Sector

TRAIDE Ethiopia

Ethiopia is one of the fastest growing countries in the world. Economic development and population growth strain the already limited water resources, a situation which will become further aggravated by climate change impacts. The Government of Ethiopia (GoE) has embarked on a long-term strategy to address water-related challenges and to improve the sector's overall performance. The GoE aspires to provide safe water to all Ethiopians, reduce the impact of wastewater on natural resources, and to increase the uptake of enhanced irrigation techniques to increase food production. The Dutch water sector has a long history of co-operation with Ethiopia and can provide technologies and services to address Ethiopia's water challenges.

ETHIOPIA



Land area: **1.13 million km²**



Arable land: **513,000 km² (45%)**

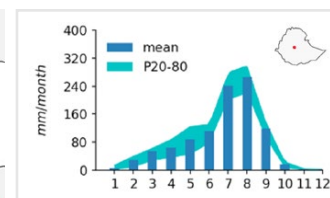
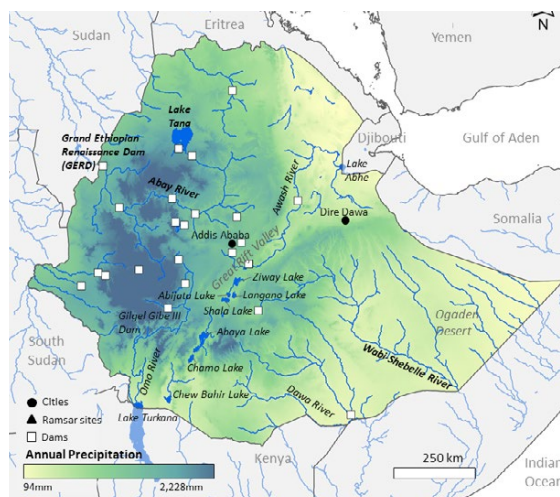


Population: **115 million (2020)**



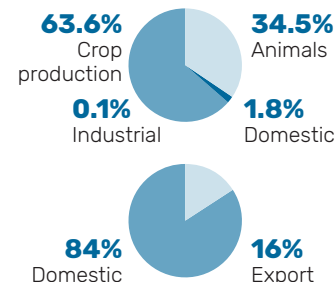
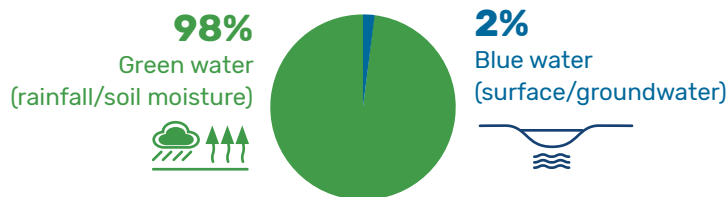
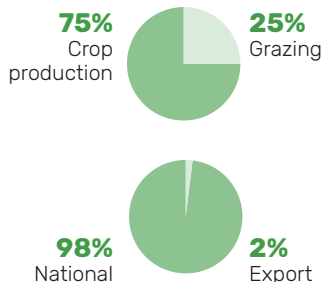
GDP: **USD 107.6 billion**

Surface water resources and annual precipitation values for Ethiopia; mean monthly precipitation values for Addis Ababa (top right)

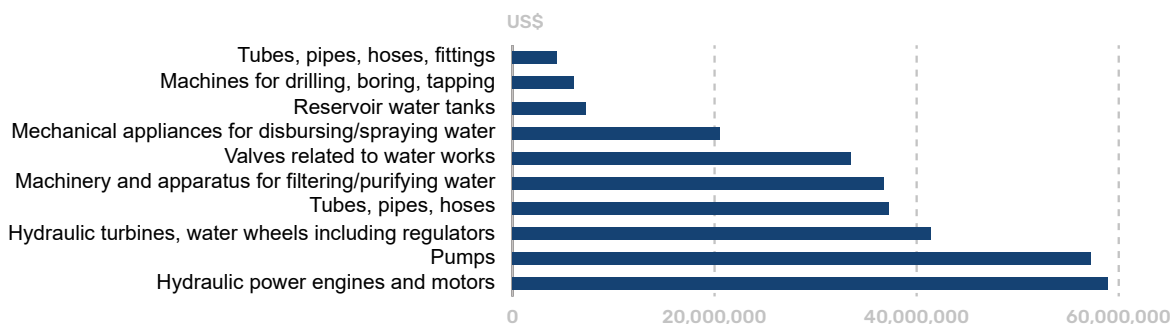


WATER USE IN ETHIOPIA

Water use in Ethiopia: **77.2 billion m³**



Value of different categories of water sector-related imports to Ethiopia (2020)



CHALLENGES IN THE ETHIOPIAN WATER SECTOR

1. CLIMATE CHANGE IMPACTS <ul style="list-style-type: none"> Increased evaporation (higher temperatures) Longer drought periods Increased flood risks (higher rainfall intensity) 	2. CATCHMENT DEGRADATION <ul style="list-style-type: none"> Erosion Sedimentation & eutrophication of reservoirs 	3. GROUNDWATER <ul style="list-style-type: none"> Lack of data on availability and use Unregulated groundwater development 	4. DRINKING WATER <ul style="list-style-type: none"> Low access to at least basic drinking water services (especially in rural areas) Drinking water pollution (especially high salinity and fluoride) 	5. IRRIGATION / AGRICULTURE <ul style="list-style-type: none"> Low water use efficiency Unregulated water use Flooding 	6. INDUSTRY <ul style="list-style-type: none"> Discharge of untreated wastewater Insufficient enforcement of pollution regulations 	7. FOR BOTH HOUSEHOLDS & INDUSTRY <ul style="list-style-type: none"> Insufficient municipal wastewater treatment facilities Insufficient cost recovery of water supply
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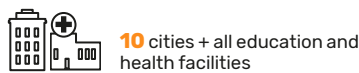
DEVELOPMENT PLAN

Water-related goals of the Government of Ethiopia outlined in their 10-year development plan

WATER ACCESSIBILITY



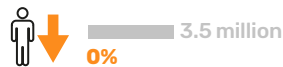
SEWERAGE SYSTEMS



WATER LOSS



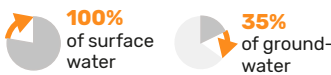
EXCESSIVE FLUORIDE



PROTECT NATIONAL INTERESTS



INVENTORY OF WATER RESOURCES



INTEGRATED RIVER BASIN DEVELOPMENT



IRRIGATION NETWORKS



MODERN IRRIGATION TECHNIQUES



EFFICIENCY IN EXISTING IRRIGATION SCHEMES



JOB OPPORTUNITIES



Opportunities in different water sub-sectors



CATCHMENT MANAGEMENT

- Hydro(geo)logical assessments
- Consultancy on catchment approaches and degradation measures
- Catchment measuring and monitoring (including remote sensing)
- Capacity building



GROUNDWATER

- Hydrogeological assessments (including borehole mapping)
- Measuring and monitoring equipment
- Capacity building on sustainable management
- Recharge, Retention and Reuse (3R) solutions



WASTEWATER TREATMENT

- Construction (industrial as well as municipal)
- Equipment and technologies
- Important industries: leather, textile, food and beverages, chemicals, pulp and paper, and mining/metal
- In-situ wastewater treatment facilities (e.g. containerised systems)



FLOOD RISK REDUCTION

- Technical advice (e.g. through hydrological modelling)
- Flood forecasting and early warning systems
- Flood defence structures
- Nature-based solutions



IRRIGATION

- Consultancy on irrigation water availability (feasibility studies)
- Capacity building related to water efficiency in irrigation
- Irrigation equipment and spare parts
- Measuring and monitoring equipment, tools and services (including remote sensing)



DRINKING WATER

- Construction of water delivery systems
- Off-grid water delivery systems (drinking water or multiple use)
- Measuring and monitoring equipment
- Large-scale purification systems
- Household purification systems
- Capacity building on utility service delivery strategies

Interested in doing business in Ethiopia?

TRAIDE aims to increase sustainable business between The Netherlands and Africa. Are you also interested in doing business in Ethiopia? We are here to help you.

CONTACT:

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