



THE WATER BIDDING PROGRAM



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About the Water Bidding Program

It is an initiative of The Mosaic Institute designed to **preserve and educate** about our greatest asset: **water**.

Raising awareness **today** to improve our **future**.

By **supporting innovative projects** that can create **social and economic transformation** in their territories, the Water Bidding Program has impacted Brazil for hour years.

Supported projects cover:

- Preserving headwaters;
- Increasing water flow;
- Implementing water and sewage treatment systems;
- Reusing water;
- Cleaning up permanent preservation areas;
- Researching new conservation technologies;
- Providing environmental training and education.

The Social Investment Development Institute (IDIS) helps the Water Bidding Program plan, validate, review organization documents, select projects, formalize donations, and provide technical and financial control of the supported projects.

About the Water Bidding Program

51

projects have been supported by the Water Bidding Program

These are good partnerships that fight for better practices to ensure better **management of water resources in Brazil** and the availability of quality water for future generations.

The Water Bidding Program supports a number of organizations focused on water management, including associations, foundations, and cooperatives that are non-religious, non-partisan, and up to date with their tax obligations. They also include higher learning institutions, both public and private.



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The projects are in regions that most need them:

Water and Sustainability



Mosaic Fertilizantes is a signatory of the **United Nations Global Compact** and adopts practices that are aligned with the **Sustainable Development Goals (SDG)**.



All 36 projects supported by the Water Bidding Program help achieve the goals of **SDG 6 – Water and Sanitation**. Indeed, the 2019 edition was recognized in two categories in the **award of cases of success** for this objective.



Other projects supported by the Program also focus on other Sustainable Development Goals:





**THE WATER BIDDING
PROGRAM**

2019



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Key results of this edition

27

water collection and/or water and sewage treatment systems installed



105

people trained to install social technologies



+45,000

square meters of soil conserved



10,000

liters/day of treated water and/or sewage



750

people engaged in environmental education and joint efforts



+1,000

trees planted under the projects



Check out
all initiatives



Water is life

A project designed to restore and preserve water sources of the Macaúba community

Catalão (GO)
Federal University
of Goiás (UFG)

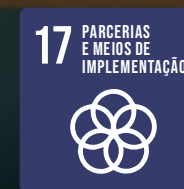
Objective

Recover and protect four springs located in the Macaúba community to increase the water flow of local streams and restore native vegetation. This contributes to biodiversity in the Cerrado biome and engages society in the process.

+100 people taking part in project implementation

4 springs recovered during the project

+1,000 trees planted helping preserve 34,000 square meters of land



Multi-trophic aquaculture

for water efficiency and food production

Registro (SP)
UNESP Registro

45 people trained during the implementation of the project

15 multi-trophic aquaculture systems installed, benefiting local smallholders

3 L/S Treated water **1** L/S of water reused in the installed systems

Objective

Develop, implement, monitor, and assess a multi-trophic aquaculture system, which combines smallholder fish farming, a source of income for families in Vale do Ribeira, and the production of the common duckweed (*Lemna minor*), a water plant that reduces sewage in fish farming and supplies vegetable biomass.



Planting Water

Promoting environmental sanitation
with social technology

Cajati (SP)
Green Initiative

Objective

Implement the Planting Water Program in the Lavras district, a Sustainable Development Reserve in Cajati, to promote environmental sanitation by installing filtering gardens, biowater systems, and banana-tree circles.

Mobile Game

Raising awareness of children on the use of water

Rio Grande (RS)

Federal University of Rio Grande Foundation (FURG)

Objective

Develop a mobile game to raise awareness of children and youth on the importance of water, promoting and encouraging good practices in managing and conserving water resources and promoting citizenship among the youngest participants.

1 Free recreational tool available for both iOS and Android

Involvement of **50** primary school students in the development and assessment of the game

+100 accesses to the Water Game during the introduction period



Conservation

of the Japaratuba River sub-basin

Japaratuba River basin (SE)

Water Mammals Foundation (FMA)

4 municipalities in the region benefited by project initiatives

6 public schools benefited by the initiative

+600 people in the school community took part in environmental education initiatives

Objective

Organize lectures and workshops for children, youth, and adults on the importance of the Japaratuba River for local development and the environment, reinforcing the need of society taking part in restoring and preserving water.



Installation

of septic tanks in a rural community

Patrocínio (MG)

Associação Cerrado Vivo

8

properties received sanitation

35

social players trained to install social technology

7

partnerships established between civil society, public authorities, and schools

Objective

Train residents of the Martins community to install TEVAP septic tanks, a social technology that provides basic sanitation in rural areas and prevents the contamination of the soil and bodies of water.



Identify

priority areas to restore forests in the Uberaba River APA

Uberaba (MG)

University of Uberaba (UNIUBE)

520 km² were mapped for project execution

6 priority zones were identified for action

3 partnerships between public authorities, academia, and civil society created

Objective

Identify priority areas to restore forests or adopt soil and water conservation management practices in the Uberaba River APA, providing information to analyze the technical and economic feasibility of a program to pay for local environmental services.



Identify

priority areas to restore forests in the Uberaba River APA



On-site treatment

of the Uberaba River sub-basins using
Moringa Oleifera

Uberaba (MG)

Federal University of the
Triângulo Mineiro Region
(UFTM)

+70%

demonstrated efficiency of
bioremediation using
Moringa Oleifera

200

people engaged in
environmental education and
joint efforts to clean up areas
and plant trees

123

trees planted and 700 square
meters of soil conserved

Objective

Demonstrate the efficiency of the use of Moringa Oleifera seeds for the bioremediation of bodies of water contaminated with heavy metals and high turbidity, developing a simple, low-cost method of treating water as an alternative to usual methods.



Alternative solution

for collecting, using, and treating water

Paranaguá (PR)

Young Betel Challenge

+70

people benefitted directly from access to clean water and sanitation

4

social technologies installed (2 sewage treatment systems, 2 water collection and treatment systems)

20

people trained to install social technologies that provide access to water and sanitation

Objective

Implementation of low-cost social technologies for environmental sanitation by an organization, Young Betel Challenge, focused on supporting and welcoming youth suffering from chemical addiction, to ensure drinking water and sanitation to people in vulnerable situation.





**THE WATER BIDDING
PROGRAM**

2020



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Key results of this edition

23

water collection and/or water and sewage treatment systems installed



188

people trained to install social technologies



+6 million

square meters of soil conserved



28,000

liters a day of water and/or sewage treated, approximately



+2,000

people engaged in environmental education and joint efforts



+5,000

trees planted under the projects



Check out
all initiatives



Training

communities in rural basic sanitation as a way to restore water resources

Patrocínio (MG)

Cerrado Vivo Association for Preserving Biodiversity

7,000 liters of water and/or sewage treated every day

+2 million square meters of soil conserved

50 people benefitted directly with access to sanitation

Objective

Train the Tejuco community to install septic tanks and provide basic sanitary education.



Training

communities in rural basic sanitation as a way to restore water resources



Future Waters

restore, manage, and encourage protection of resources in Catalão (GO)

Catalão (GO)

Federal University of Catalão (UCAT) and the Research Support Foundation (FUNAPE)

185 people trained in good practices to recover and conserve the environment

625 trees planted and 10,000 square meters of soil conserved

3 theses and dissertations written and

1 one publication (Future Waters of the Cerrado)

Objective

Promote awareness, a change of attitude, and social transformation in the management of water resources, to improve the quality and availability of water.



Waters of the Saint-Hilaire Lange National Park

participative monitoring of the water basin
to preserve and restore
riparian vegetation

Paranaguá (SP)

Mater Natura –
Environmental Studies
Institute

20,000 square meters of riparian
forests restored

+2,000 trees planted
and **35**,000 m² of soil
conserved

21 communities benefitted directly from
access to clean water

Objective

Restore riparian vegetation and implement a trail for environmental education activities, including community management and awareness initiatives for the use of eco-systemic services of the Atlantic Forest in the state of Paraná.



Pingo D'água

rural environmental education and sanitation

Rio Verde (GO)

Goiano Federal Institute of Education, Science, and Technology (IFGoiano) and Research Support Foundation (FUNAPE)

4

social technologies installed: water collection and treatment system using clean energy, sewage treatment, tree nursery, and waste management

440

students, teachers, and employees of a rural public school benefited with access to clean water and sanitation

1

spring recovered

Objective

Implement systems that ensure access to water and sanitation in a rural municipal school, as well as developing environmental education and initiatives to restore springs.



Cuidando das Águas

sanitation and environmental education in the far south of the municipality of São Paulo

São Paulo (SP)

Instituto Ambiental

Objective

Help provide greater access to drinking water and sanitation in the region by building ecological alternatives to treat sewage and disseminate building practices among residents.

350

people benefitted directly with access to sanitation

+16
,000

liters of sewage treated every day

1.45

metric tons of organic pollutants reduced



Parque do Paço

Restore water sources and vegetation of the Paço Park Permanent Preservation Area (APP)

Uberaba (MG)

University of Uberaba (UNIUBE)

1,500

trees planted during project implementation

250

park users benefited every day

+1,600

people taking part in the training programs

Objective

Recover springs and vegetation of Parque do Paço, a park and environmental leisure area in Uberaba, helping improve the quality of life and encouraging environmental education by restoring the park.



Water, education, and food

chatting about urban vegetable
gardens in schools

Anápolis, Catalão, Ouvidor, and Rio Verde (MT)

Federal University of Goiás (UFG) and the
Research Support Foundation (FUNAPE)

Objective

Designing environmental education initiatives by
planting urban gardens with integrated irrigation
systems using collected rainwater at four schools of
the public school system

+54
,000 liters of rainwater collected and reused during
project implementation

24
,000 school lunches
prepared with products
from the school
gardens, and

800 people benefited monthly
with access to quality food

1,700 people of the school community benefited directly and 33
people trained to replicate the technology



Production

of water in the Lira River basin

Sorriso (MT)

Associação Amigos da Terra Sorriso

Objective

Train local technical personnel to recover springs and build contour curves and containment basins; install 300 drains to accelerate the recharge of the water table and increase the flow of the Lira River.

3,250,000 m²

area of soil conserved, helping recover 11 springs

29.95

liters/second of rainwater collected during project implementation

40

People trained to install drains that boost water seeping into the soil, and

70

people engaged in environmental education



Reducing the water footprint

Develop 3D prototypes for micro-irrigation to reduce water footprint in the banana crop in western Bahia

Barreiras (BA)

Federal University of Western Bahia (UFOB)

15%

reduction in water use by banana crops

30
,000

liters of water per day, per hectare, saved

75

people trained to replicate this technology

Objective

Improve water sustainability of the banana crop in the western part of the state, using 3D-printed micro-irrigation prototypes.



Preventing water contamination

biodigesters to treat hog residues to produce energy and biofertilizers for small properties

Alfenas (MG)

José do Rosário Vellano University and Fundação de Ensino e Tecnologia de Alfenas (UNIFENAS)

5
,000

liters of water treated every day

100%

efficiency in water treatment

+21

people trained to replicate this technology

Objective

Prevent soil and water contamination and produce energy and biofertilizers using a biodigester installed to treat residues and sewage from a hog farm.



Local Environmental Collective (COLMEIA)

restoration of the spring that feeds Córrego Feio, in Araxá (MG)

Araxá (MG)

Centro Universitário do Planalto de Araxá (UNIARAXÁ)

Objective

Revert heavy erosion in one of the tributaries of the Feio Stream – which supplies water to the municipality.

700,000
terraces built

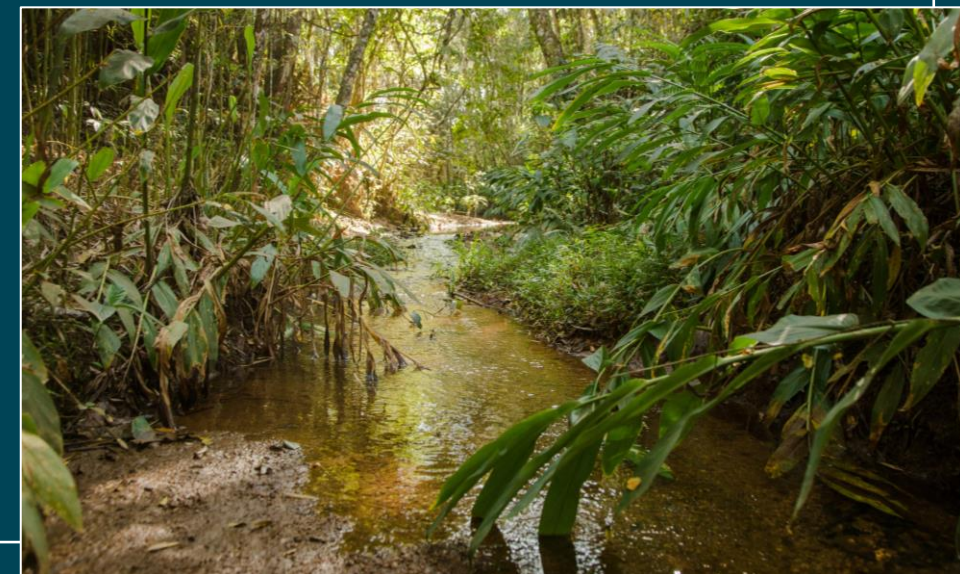
162
trees planted

106
people benefitted indirectly from access to clean water



Local Environmental Collective (COLMEIA)

restoration of the spring that feeds Córrego Feio, in Araxá (MG)



Social and environmental education

learning with and reviving springs

Rondonópolis (MT)

Grupo Arareau de Pesquisa e Educação

Objective

Promote the sustainable use of water resources through educational activities that led to an environmental assessment and regeneration of the spring and water-quality analysis.

800

trees planted, 28,000 square meters of soil conserved, and four springs restored

25

people trained during the implementation of the project

19

communities benefited with access to clean water or sanitation





**THE WATER BIDDING
PROGRAM**

2021



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Key results of this edition

61

water collection and/or water and sewage treatment systems installed



285

people trained to install social technologies



35,411

square meters of soil conserved



Check out all initiatives

10,483

liters/day of treated water and/or sewage



748

people engaged in environmental education and joint efforts



3,810

trees planted under the projects



Community vegetable garden

Mulheres em Ação: conscientious use of water in food production

Catalão (GO)

Centro de Integração Social da Mulher – Vida Mulher Viva.

Objective

Transform a rundown, at-risk area in a community center for environmental and social work by planting a community garden.

1

community garden planted

40

people trained in food production techniques and the sustainable use of water

120

families benefited directly by the project



Forest restoration

at the Córrego da Saudade Permanent Protection Area (APP) and build linear park

Uberaba (MG)

University of Uberaba (UNIUBE)

Objective

Restore a degraded Permanent Preservation Area (APP) of the Saudade Stream and build a community area to start implementing the park.

17,000 people benefited directly by the project

300 trees planted and 10,000 square meters of soil conserved

440 people engaged in environmental education and 150 members of the community involved in the project



Forest restoration

at the Córrego da Saudade Permanent Protection Area (APP) and build linear park



Recover and monitor

springs to increase the flow
of the Uberaba River

Uberaba (MG)

Instituto Agronelli de Desenvolvimento Social

Objective

Manage water resources of Fazenda São Francisco, map and monitor the existing springs to boost the flow of the streams.

1,100 trees planted,
and **5,000** m² of soil
conserved

495 people attending courses and lectures on how to recover
springs and headwaters

25 rural communities benefited with access to clean water



Recover and monitor

springs to increase the flow of the Uberaba River



SEMEAR

plant an agroecological vegetable garden
and reuse rainwater

Uberaba (MG)

APAE Uberaba

Objective

Support effective initiatives to recover and conserve natural resources, promoting their rational use within the APAE.

750

people benefited directly by the project

1

collection and treatment systems to reuse water in the community garden

4.16

liters/second of water collected or reused

24

hours of training to 35 community members



Convert

organic pollutants in the water into energy using chemical adsorption and photoelectric catalysis.

Campo Grande (MS)

Federal University of Mato Grosso do Sul (UFMS) and Research, Teaching, and Culture Support Foundation (FAPEC)

Objective

Develop reactors to degrade organic pollutants while producing energy.

1 scientific research effort

1 solution developed to increase the availability of quality water



PROJECT UNDERWAY

Organic vegetable garden at APAE

environmental education, sustainability, and health

Conquista (MG)
APAE Conquista

Objective

Plant an agro-ecological garden connected to a rainwater collection system to promote good practices in food production and water management.

20 people engaged in environmental education and joint efforts to clean up areas and plant trees

1 installed water collection system to ensure the reuse of 2.18 liters/second of water

40 trees planted



Technology and social innovation

as the bases for the rational use of water in the production of food in family aquaculture

Registro (SP)
UNESP Registro

Objective

Improve smallholder aquaculture, developing and implementing technologies to treat sewage and providing income to smallholders using bioproducts and supporting the rational use of water to produce food.

28 liters/second of water treated and reused in six systems installed

150 family smallholders trained to install social technology

Create **3** startups and publication of **8** articles in specialized magazines and periodicals



Water networks

biodigester septic tanks as a sanitation alternative

Candeias (BA)
Humana Brasil

Objective

Install 20 biodigester septic tanks in the Passé district, in Candeias (BA), to prevent diseases, protect the water table, and produce quality organic fertilizer

20 septic tanks installed, providing sanitation to 20 families and preventing soil contamination

20% reduction in water-transmissible diseases in the community

80 members of the community took part in the project



Social Development

through Water at Quilombo Patioba

Japaratuba (SE)

Associação Quilombola do Povoado Patioba

60%

reduction in water-transmissible diseases

120

hours of workshops on the sustainable use and treatment of water for 200 members of this *quilombola* community

800

people benefitted directly from access to clean water

Objective

Implement a water treatment system at the community's three deep wells, providing access to clean water and raising awareness to preserve these sources through cleanup and recovery of the area



PROJECT UNDERWAY

Recapta Project

Patos de Minas (MG)
Engenheiros Sem Fronteiras

3700 people benefited directly by the project

5 water collection systems installed to collect and reuse 0.28 liter/second of water in four public schools

About **700** people attended lectures and educational activities on good practices in water management

Objective

Install a rainwater collection system at municipal public schools to reuse the water in organic vegetable gardens and other non-drinking uses, as well as educate students and staff on the importance of water resources.



PROJECT UNDERWAY

Training

communities in rural basic sanitation as a way to preserve water

Patrocínio (MG)

Associação Cerrado Vivo (CerVivo)

Objective

Train the community to install TEVAP evapotranspiration septic tanks to improve the quality of life, in addition to offer basic sanitary education.

15

TEVAP systems installed in rural properties to prevent soil contamination

240

people benefitted directly from access to sanitation

40

people trained to install social technologies



Training

communities in rural basic sanitation as a way to preserve water



Recovery

of the Luiz José Barcelos spring

Tapira (MG)

ONG Corrente do Bem

Objective

Restore the forest around the spring to increase the flow of water and preserve the headwaters.

1

spring recovered by planting 300 trees and fencing-in an area of 330m²

25

members of the community engaged in the project

2,000

people benefited by the restoration and protection of this spring



Revitalization

of the Luiz José Barcelos spring



Adjusting

water drawing and use of smallholders
in farmer markets of Alfenas

Alfenas (MG)

Associação Renovar

Objective

24 smallholder families benefited directly

3 springs revitalized and **2,000** tree saplings donated

10 hours of training in environmental law and sustainable soil management for 20 smallholders

4 partnerships established between civil society, public authorities, and universities

Adjust the drawing and use of water by 20 smallholders by donating saplings, cleaning up the Pedra Branca stream, and recovering the spring.



Local Environmental Collective (COLMEIA)

Recover access area to the Córrego Feio Special Protection Area (APE), in Araxá (MG)

Araxá (MG)

Local Environmental Collective (COLMEIA)

800 people benefited directly by the project

3,000 m² area cleaned up, and **450** trees planted

12,000 m² of soil conserved

Objective

Reduce soil pollution and contamination of the water table by restoring vegetation, raising awareness of the community on good preservation practices, and encouraging the improvement of water quality.



PROJECT UNDERWAY

Local Environmental Collective (COLMEIA)

Recover access area to the Córrego Feio Special Protection Area (APE), in Araxá (MG)



Alternative system

for treating domestic wastewater –
evapotranspiration tanks

Alfenas (MG)

Instituto Consciência e Ação

15

TEVAP septic tanks installed in
rural properties

45

people benefitted directly from
access to sanitation

Objective

Install 15 alternative systems to treat wastewater to prevent contamination of the water table by properties along the Capivara River.



PROJECT UNDERWAY

Learn about and support the Water Bidding Program

The Water Bidding Program is an initiative that **impacts** and **transforms** the lives of Brazilians through **innovation**.

These projects help develop ESG practices, transforming public policies and the lives of cities and communities and preserving Brazil's environment.

Support initiatives such as this one. **Help the future of our water.**



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Be a partner of a better future.



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IDIS
DESENVOLVENDO O
INVESTIMENTO SOCIAL