

SOTRAVIC
water • environment • energy

Business introduction

History of the Company



1986

Creation of Sotravic Limitee and recruitment of its first employee Mr Lalljee

Launch of our first irrigation project



1989

Implementation of our first Potable Water project



1995

Installation of our first Sewerage Network and Treatment Plant

Sotravic Ltee manpower reaches 100no employees



2006

Diversification to solid waste management with taking over of National Landfill at Mare-Chicose



2009

Logistics capacity grows with state of the art technology to a fleet of 1000 no equipment



2011

Diversification to energy sector with Gas to Energy Power plant at Landfill – feeding 3,3MW of clean energy to national grid



2012

Registration of the Gas to Energy project as the first Clean Development Mechanism (CDM) project in Mauritius under the Kyoto Protocol



2021

International Operations – export of service capabilities based on win-win partnerships.

Company Activities

Water & Infrastructure

Design, build and operate water infrastructure, whether it is potable water retainer, sewage, irrigation, treatment plants or reservoirs.

Waste & Energy

Design, build and operate solid waste infrastructure and renewable energy plants.

Equipment & Logistics

Procure, maintain and repair all Sotravic Limitee's plant and equipment.
Research and deploy new technologies.

Corporate services

Human Resources, Research & Development, Tendering, Commercial, Finance, Communication, Legal & Secretarial, Procurement and Information Systems. The shared services endeavour to support the core activities of the organisation.

Group Structure



NOTE
1: Subsidiaries
2: Related Companies

Change and innovation have been the key drivers of advancement and diversification for Sotravac Group.



Innovation has not only become a differentiator in our competitive market but a strategic tool for empowerment of our people as staff are encouraged to find smarter ways of doing business.

Potable Water

Over the past 35 years Sotravac has been a key contributor in upgrading the aging Mauritius water network. Over time the company has executed nearly Rs 4bn of infrastructure in often very difficult conditions, due to the populated and occupied working environment.

Sotravac installed hundreds of water pipeline infrastructure in all parts of Mauritius in basaltic ground of volcanic origin. Water is a valuable resource due to Mauritius size and limited storage options and the conservation thereof remains a National interest.

Sotravac is often approached by Government to execute works on an emergency basis as was the case in the much needed water diversion project from Mare Longue dam to the Mare aux Vacoas feeder in which Sotravac completed the works within budget and 4 months early.

Part of Sotravac's success has been due to its own large Plant fleet, which today is in excess 1,000 major Plant items. This capacity has enabled Sotravac to tender for the most difficult projects and successfully execute the work even under the toughest conditions.

Sotravac specializes in the following potable water infrastructure installations;

High Pressure Pipelines, Reservoirs, Pump stations, Telemetry Solutions, Water Treatment Plants, large scale Pivot Irrigations and Water Feeder Canals.



Sewerage

As in the case of Potable Water Sotravic has also been at the heart of installing various major new Sewer pipeline networks in order to conserve the environment and reduce pollution.

Prior to 2006 Mauritius had little by way of established Sewer networks. In response Sotravic combined forces with international contractors to execute 4 of the 5 largest sewer construction projects awarded to date in Mauritius.

The principal objectives of these projects were to:

- 1. Protect the coastal environment;*
- 2. Avert pollution of surface and ground water resources;*
- 3. Reduce health risk due to inadequate collection, treatment and disposal of sewage;*
- 4. Contribute to sustainable socio-economic development*

Sotravic continues to use its increasing experience, extensive plant and equipment resources and financial strength to consolidate its position as market leader in the field of Sewer infrastructure. The Plaines Wilhems Sewerage Project involved several subprojects which covered the installation of sewer pipeline networks to provide 40,000 households connections including the construction of major pump stations and treatments plants to manage these sewer networks.

Sotravic has sound experience in designing, upgrading and installing sewerage networks in many difficult types of terrain and densely populated areas to meet the growing demands of society and also protecting the environment.



Renewable Energy

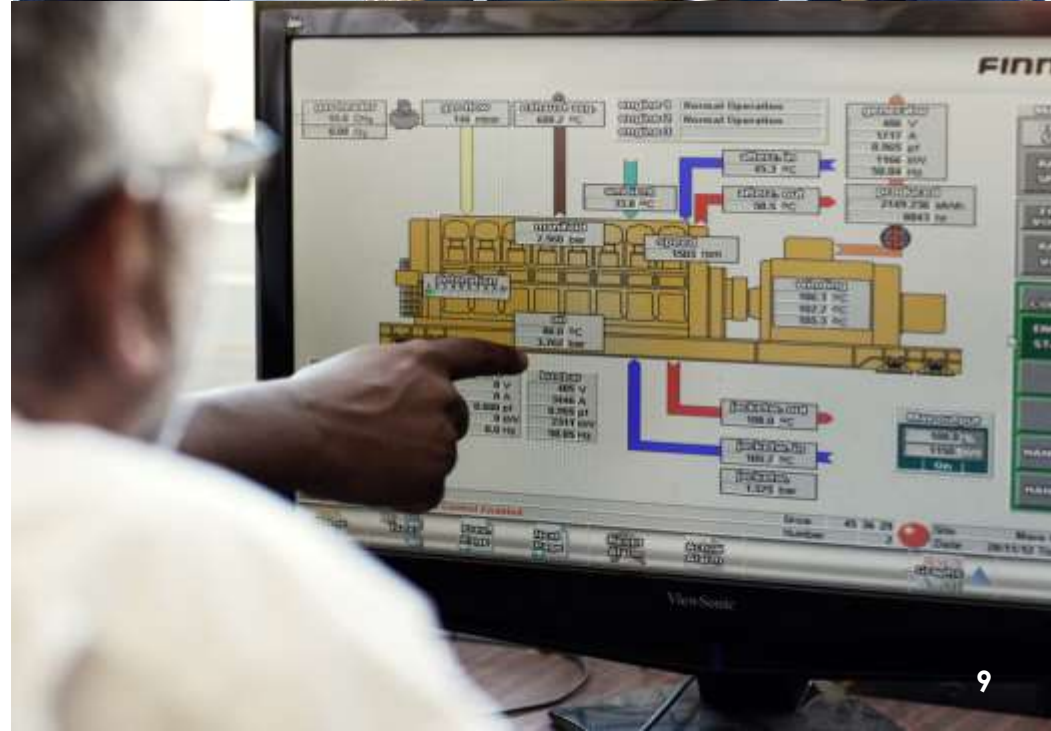
As a direct result of Sotravic's initiative and focused drive towards innovative green engineering solutions, the installation of the gas extraction system has allowed a Waste Landfill site to become an important source of renewable energy for Mauritius.

In October 2011 Sotravic became the first Independent Power Producer to supply, to the Central Electricity Board (CEB), energy produced solely from a Renewable Source. The plant will generate 110 million Kwh over the next 5 years. The process involves the conversion of Landfill Gas into Energy by means of electrical generators capable of running on Landfill Gas.

Previously the Landfill Gas collected at the Mare Chicose Landfill Site was simply flared, however the gas contains approximately 50% Methane and thus represents an important source of energy. For Gas management and specifically the capture of methane gas, Sotravic installed numerous additional vertical gas wells up to 30m deep. In addition manifolds were installed to improve the collection. The manifolds play an important role in optimizing the management of landfill gas by allowing precise control over each gas well in one easily accessible location.

The plant generates about 3Mw of clean renewable electricity per month which is released into the national grid. To date more than 40Mw have been produced and CO2 emissions reduced by more than 40,000tonnes.

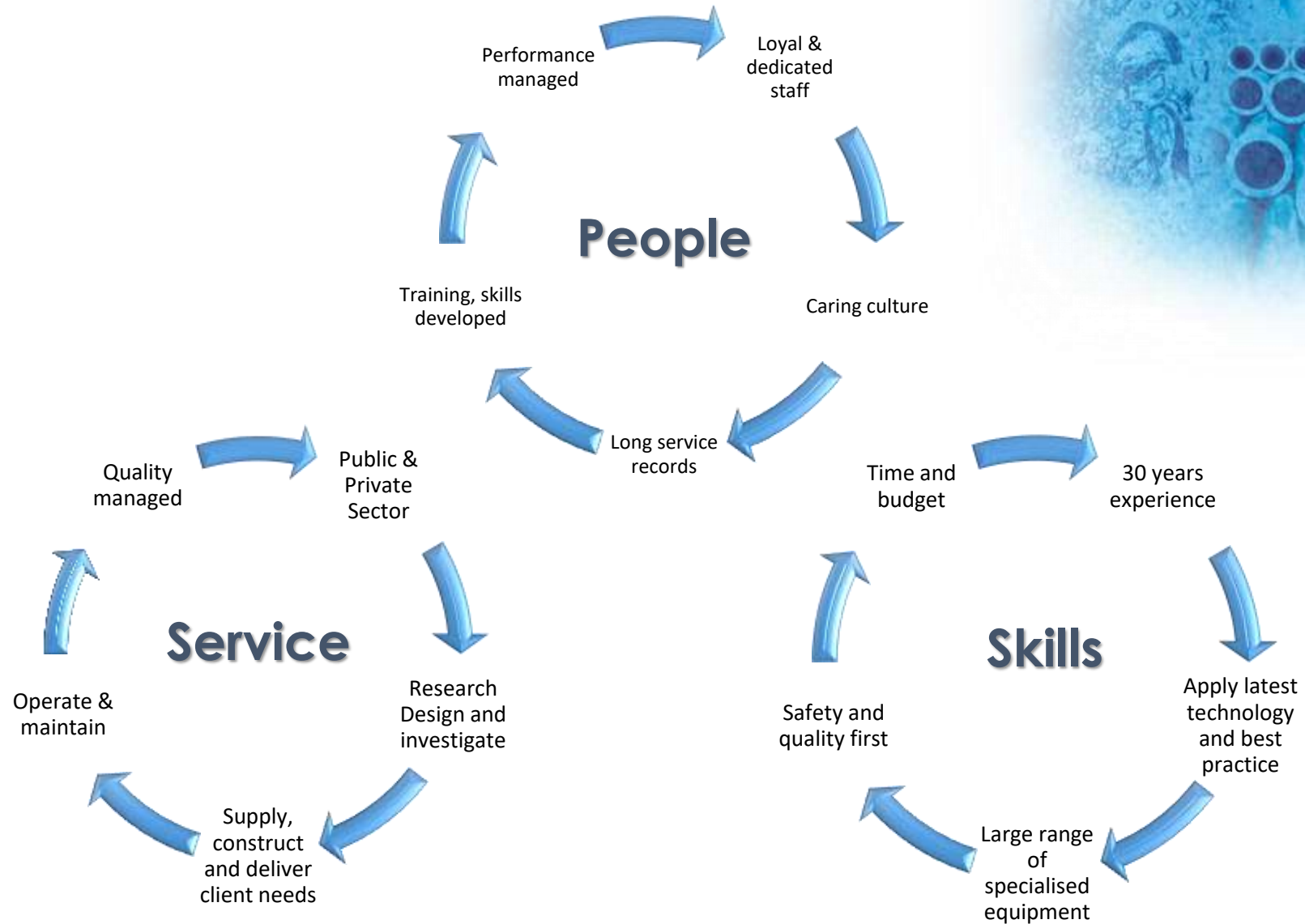
The project complies with the CDM requirements and is registered with UNFCCC under the Kyoto Protocol for the generation and sale of Carbon Credits (CER's).



AGENDA

- History
- Core Strengths
- Group Structure - Business units
 - Infrastructure
 - Geotechnical Investigation Solutions (GIS)
 - Construction
 - Equipment Rental
 - Waste & Energy

Core Strengths



Group Structure

Business Units



NOTE
 1:Subsidiaries
 2:Related Companies



Plaines Wilhems District

142km Sewer network & House connections

Forming part of the Plaines Wilhems Sewerage Project Stage 1, the Project objective was to connect a maximum of existing properties in the regions of Quatre Bornes, Rose Hill-Beau Bassin and Bambous to a new sewerage network. The work comprised construction of approximately 132,000m of street sewers, 10,000m of trunk sewer, 3000m of pumping main together with the survey and design and construction of 13,000 sewer house connections and the construction of a major new sewerage pumping station. The work also required the replacement of about 50,000m of existing outdated CWA water supply pipelines.

PROJECT TITLE

Plaines Wilhems Sewerage Project – Stage 1. WW99F: Construction of Reticulation Network and House Connections – Lot 1A

PROJECT FACTS

Project Duration: 92 months
 Contract Value: Rs 3,9 Billion
 DI pipes: 5,000 m
 Sewer pipes: 142,000 m
 CWA pipes 40,000 m
 House Conns: 13,000 no

CHALLENGES

Construction of sewers in confined spaces, narrow roads under traffic and with multiple existing services. Managing major Variations

CLIENT TEAM

Employer: WMA
 Project Manager: WMA
 Engineer: Lotti & Associati

SOTRAVIC TEAM

CM: Sheik Varsally / Ewan Terblanche
 PM: Desiree Chung
 2009-2016



POTABLE WATER

SEWER

WASTE

ENERGY

EQUIPMENT



Port Louis District

80,000m³ Water Treatment Plant

This Project is a Design-Build-Operate contract for the complete civil and electro-mechanical works for the rehabilitation and upgrade of an existing water treatment plant to produce 80,000 m³/day of potable water for the City of Port Louis; all whilst maintaining full operation of the plant. Works include the rehabilitation of existing slow sand filters and new construction of pre-treatment works, rapid gravity filters, backwash and chemical treatment plants and buildings, pump galleries and operations rooms together with connecting pipework, new road networks and replacement of the boundary walls. Contractor's operation of the Plant is for a period of two years.

PROJECT TITLE

Upgrading of Pailles Water Treatment Plant:
Contract CWA/C2013/27

PROJECT FACTS

Project Duration: 20 months
O & M: 24 months
Contract Value: Rs 726 million
Water Treatment 80,000 m³/d
Concrete 6,800 m³
Pipework 1,200 m
Filter media 3,000 m³

CHALLENGES

Design and build the new treatment plant in a very tight schedule within the existing treatment plant while keeping the existing water treatment plant running

CLIENT TEAM

Employer: CWA
Project Manager: CWA

SOTRATIC TEAM

CM: Maurice Hiu
PM: Sheiland Malloo (Civil)
Jean Pierre Wan (M&E)

2013-2015



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Plaines Wilhems District

52km Non Revenue water network

Comprising two contracts carried out simultaneously, this project forms part of a major CWA programme of replacement of aged water mains in the Upper Mare aux Vacoas water supply zone. The Works are located entirely in urban areas and comprise the design, supply and construction including all civil works of a total of 51.9 km of DI and HDPE water pipelines up to 400mm diameter as trunk mains, service mains and laterals including fittings and valves plus a total of 6,500 connections either to existing water metres or existing pipelines.

PROJECT TITLE

John Kennedy DMA-C2014/30
 & Curepipe & Lislet Geoffroy DMA-C2014/32
 Internal reference: **STC457 & STC458**

PROJECT FACTS

Project Duration: 12 months
 Contract Value: Rs 403 Million
 DI pipes: 44,000 m
 HDPE pipes: 8,000 m
 Connections: 6,500: Reinstatement: 97,000 m²

CHALLENGES

Coordination of multiple stakeholders for design, procure and construct in congested traffic conditions in short contract period.

CLIENT TEAM

Employer: CWA
 Project Manager: CWA

SOTRAVIC TEAM

CM: Maurice Hiu
 PM: Neil van Rooyen – STC 457
 PM: Naden Ramasawmy
2015-2016



POTABLE WATER

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Pamplémousses District

900m³ Sewer Treatment Plant

This Project is for the replacement and upgrading of the entire existing wastewater and storm water drainage infrastructure at a major District Hospital including construction of a new sewage pumping station and wastewater treatment plant complete with all electro-mechanical works. Works were carried out with the hospital remaining in full operation and with minimum disturbance followed by operation and maintenance of the installations for a period of 12 months.

PROJECT TITLE

Improvement of Wastewater and Stormwater Infrastructure at SSR National Hospital:
Contract MHPQ/WKS & S/2011/Q02 CPB/8/2012

PROJECT FACTS

Project Duration: 12 months
O & M Duration: 12 months
Contract Value: Rs 118 million
uPVC 110-300mm dia: 4400m
Concrete 600mm dia: 1650m
New Pumping Station

CHALLENGES

Working within an operating hospital environment replacing the existing services which have to be kept live. Very strict noise, working times and dust control within hospital were observed.

CLIENT TEAM

Employer: Ministry of Health
Project Manager: Gibb

SOTRATIC TEAM

CM: Maurice Hiu
PM: Armio Lafleur
2013-2014



POTABLE WATER

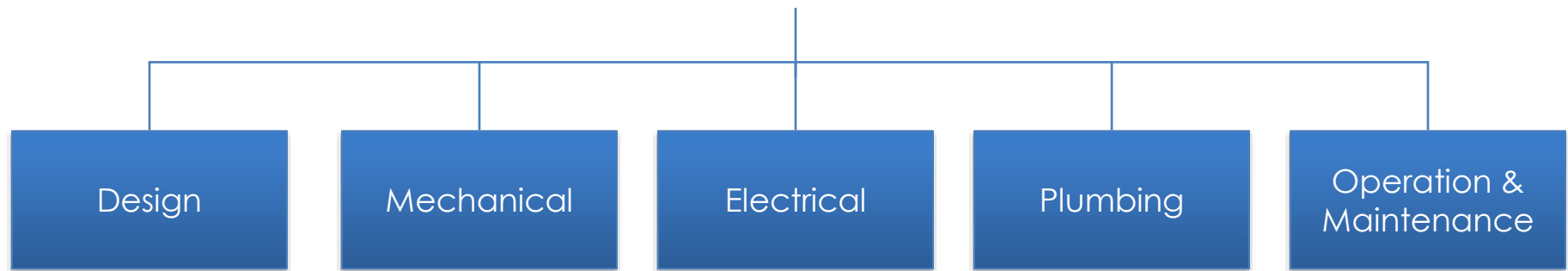
SEWER

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EQUIPMENT

Business Activities



We have an in-house Design & Engineering team including many external design partners to solve any project demand. Our teams are committed to quality and we provide a one-stop Mechanical, Electrical and Plumbing solution to our clients. Sotravac MEP Ltd is fully compliant and registered with CIDB and CEB.





Pamplémousses District – Ongoing Operation and Maintenance Services for Wastewater Treatment Plant

This Project was initially for the replacement and upgrading of the entire existing wastewater and storm water drainage infrastructure at a major District Hospital including construction of a new sewage pumping station and wastewater treatment plant complete with all electro-mechanical works. Works were carried out with the hospital remaining in full operation and with minimum disturbance followed by operation and maintenance of the installations for a period of 12 months.

PROJECT TITLE

Operate & maintain the Wastewater Infrastructure at SSR National Hospital:

PROJECT FACTS

Project Duration: 12 months
O & M Duration: 12 months
Contract Value: Rs 36 million

CHALLENGES

Working within an operating hospital environment replacing the old live network by a new system. Very strict noise, working times and dust control within hospital were observed.

CLIENT TEAM

Employer: Ministry of Health
Consultant:
Gibb

SOTRAVIC TEAM

CM: Dhanraj Gopaul
PM: Krishna Ramrup



INFRASTRUCTURE

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EQUIPMENT



Grand Port District – Ongoing

Operation and Maintenance Services for Wastewater Treatment Plant and associated works

The SSR International Airports company project includes for the complete operation and maintenance of the entire wastewater treatment facilities and lifting stations ,which include the operating and maintaining plant equipment installations in proper operating order. Treating the waste water flow arriving at the plant, in compliance with the discharge parameters as specified. Ensuring sludge treatment and waste disposal under conditions complying with public health and safety regulations and submission of regular test reports.

PROJECT TITLE

Operation & Maintenance Services for the Wastewater Treatment Plant & associated works at the SSR International Airport

PROJECT FACTS

Project Duration: 36 months
O & M Duration: 36 months
Contract Value: Rs 8.7 million

CHALLENGES

Refurbishing the main components while the plant in Working conditions.

CLIENT TEAM

Employer: Airports of Mauritius

SOTRAVIC TEAM

CM: Dhanraj Gopaul
PM: Krishna Ramrup



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EQUIPMENT



Port Louis District – completed

Drinking Water Treatment Plant – 80,000 m³/day

This Project is a Design-Build-Operate contract for the complete civil and electro-mechanical works for the rehabilitation and upgrade of an existing water treatment plant to produce 80,000 m³/day of potable water for the City of Port Louis; all whilst maintaining full operation of the plant. Works include the rehabilitation of existing slow sand filters and new construction of pre-treatment works, rapid gravity filters, backwash and chemical treatment plants and buildings, pump galleries and operations rooms together with connecting pipework, new road networks and replacement of the boundary walls. Contractor's operation of the Plant is for a period of two years.

PROJECT TITLE

Upgrading of Pailles Water Treatment Plant:
Contract CWA/C2013/27

PROJECT FACTS

Project Duration: 20 months
O & M: 24 months
Contract Value: Rs 726 million
M&E works—Rs 296 million
Water Treatment 80,000 m³/d
Pipework 1,200 m
Filter media 3,000 m³

CHALLENGES

Design and build the new treatment plant in a very tight schedule within the existing treatment plant while keeping the existing water treatment plant running – Operate plant with high turbidity up to 400 NTU

CLIENT TEAM

Employer: CWA
Consultant: GIBB

SOTRAVIC TEAM

CM: Dhanraj Gopaul
PM: Jean Pierre Wan (M&E)



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Port Louis District – Ongoing St Martin Wastewater treatment plant

The St Martin Wastewater treatment plant receives both domestic and industrial wastewater under gravity from Plaine Wilhems area through the trunk main sewer network. There is no control over the amount or timing of the inflow to the treatment plant. The wastewater is treated in three stages and the treated effluent is supplied for irrigation of the nearby sugarcane fields. The aim of this project is to operate and maintain the treatment plant and ensure the effluent discharge meets the effluent environmental standards.

PROJECT TITLE

Operation and Maintenance
of the St Martin WWTP
Contract 445S

PROJECT FACTS

Project Duration: 84 months
Contract Value: Rs 917 million
approx
M&E works- To operate and
maintain WWTP

CHALLENGES

To operate and maintain a
treatment plant which is more
than 17 years old.
A condition assessment of the
plant forms part of the
contract

CLIENT TEAM

Employer: WMA

**TEAM: JV Sotracic Ltee and
Chinawater Everbright LTD**



INFRASTRUCTURE

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ENERGY

EQUIPMENT



Black River District – completed

Sewage water pumping station

This Project is a Design-Build contract for the construction of street sewers, sewer house hold connections, a sewage pumping station complete with electro-mechanical works, a rising main to St. Martin Waste water Treatment Plant and the installation of a surge vessel .

The sewage pumping station is located at Bambous and collects about 80 % of the waste water generated from the south western part of the Quatre Bornes catchment.



PROJECT TITLE

Plaines Wilhems Sewage Project - Lot 1A
Contract WW 80F

PROJECT FACTS

Project Duration: 12 months
Contract Value: Rs 24 million
Pumping station 10,800 m³/d
Surge vessel 6000 lts
Street sewers 98,600 m
House hold 13,000 no.
Rising main 4,200 m

CHALLENGES

Design and build the new pumping station 7 m deep on the bank of river coming out of La Ferme reservoir.

CLIENT TEAM

Employer: WMA
Project Manager: C. Lotti & Associates

SOTRAVIC TEAM

CM: Joseph Kong
PM: Dhanraj Gopaul (M&E)

INFRASTRUCTURE

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Pamplémousses District – completed Sewage water pumping stations

This Project forms part of the overall Baie du Tombeau Sewerage scheme which has a main objective , to sewer the catchment , treat the collected waste water and dispose the effluent in an environmentally sound manner .It involves the construction of three pumping stations complete with electromechanical works and equipped with remote radio telemetry and a SCADA system for control and monitoring.

This set-up enables collection and disposal of the waster water via the Baie du Tombeau Sewage Plant.

PROJECT TITLE

Construction of sewerage and water supply works
Contract WW 110A

PROJECT FACTS

Project Duration: 24 months
Contract Value: Rs 720 Million
M&E works : Rs 17.6 million
Pumping station 16,400 m³/d
Street sewers 8000 m
House hold 500 no.
Rising main 770 m

CHALLENGES

Build the new pumping stations 6 m deep in low lying sandy areas with exceptionally high water table coupled with remote monitoring and control system.

CLIENT TEAM

Employer: WMA
Project Manager: Gibb Mauritius

SOTRAVIC TEAM

CM: Joseph Kong
PM: Dhanraj Gopaul (M&E)



INFRASTRUCTURE

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Port Louis District – Ongoing Sewage Water Pumping Station

This Project forms part of the overall Pailles Guibies Sewerage scheme which has a main objective, to sewer the catchment, treat the collected waste water and dispose the effluent in an environmentally sound manner. It involves the construction of one pumping station complete with electromechanical works and equipped with remote GSM telemetry and a SCADA system for control and monitoring.

This set-up enables collection and disposal of the waste water to the Montagne Jacquot Wastewater Treatment Plant.

PROJECT TITLE

Pailles Guibies Sewerage
Project Phase I – Construction
of trunk sewer and Pump
Station
Contract WW259W

PROJECT FACTS

Project Duration: 18 months
Contract Value: Rs 170 million
M&E works—Rs 39.9 million
Pipework 4,150 m

CHALLENGES

Design and build the new
pumping station 9 m deep
on the bank of Grand River
North West estuary.

CLIENT TEAM

Employer: WMA
Consultant: GIBB

SOTRAVIC TEAM

CM: Maurice Hiu
PM: Dhanraj Gopaul



INFRASTRUCTURE

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EQUIPMENT



FLACQ District – completed Water pumping station

This Project is located in the region of Belle Rose, Ecoignard and Caroline. The main objective of this project is to rehabilitate a borehole pumping station complete with all electro-mechanical works, install a surge vessel for pipeline protection and to construct a rising main from the pumping station to an uphill service reservoir.

This station is equipped with remote GPRS telemetry system and this set-up enables control and monitoring of the service reservoir.

PROJECT TITLE

Construction of sewerage and water supply works
Contract WW 110A

PROJECT FACTS

Project Duration: 12 months
Contract Value: Rs 69 Million
M&E works : Rs 3.2 million
Borehole station 6000 m³/d
Rising main 6000 m
Water works

CHALLENGES

Refurbishment works while keeping the water distribution in operation.

CLIENT TEAM

Employer: CWA
Project Manager: CWA

SOTRAVIC TEAM

CM: Joseph Kong
PM: Dhanraj Gopaul (M&E)



INFRASTRUCTURE

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WASTE

ENERGY

EQUIPMENT

Design Partners



World leader in treated water. Specialises in water and wastewater treatment & desalination large scale projects

SULZER

Sulzer is a worldwide company specialised in the supply of pumps, mixers and specialised water&wastewater equipment



Dubai based company specialist in large scale wastewater and desalination projects

Partnership
Agreements

vonRoll

Specialist in large scale water and wastewater design and construction projects

TOSHIBA

UEM, a Toshiba group company specialist in turnkey services in water and wastewater collection treatment and disposal

FUTURE TECHNOLOGIES



Dubai based company specialised in small/medium scale and package water/wastewater treatment plants

Supplier Partners



Completed Projects

Operation & Maintenance

- **SSR International Airport** - Operate & Maintain of Waste water treatment plant- **8.7M**
- **Pailles Water Treatment Plant** - Design, Build, Operate and Maintain of water treatment- **43 M**
- **NHDC housing** – Construct, Operate and maintain of Sewer pump station and controls- **1.1M**

Irrigation

- **Nothern Plaines** - Design, supply, install, operate & maintain of Centre Pivots - **34.2 M**
- **Labourdonnais** - Supply, install, operate & maintain of Centre Pivots- **3.6 M**
- **Indian Resorts & Hilton** - Design, supply, install of turf irrigation project- **2.8 M**

Water Pump Stations / Treatment Plants

- **Midlands Dam** – Design and Construction of water intake & pumping station- **15.8 M**
- **Pailles Water Treatment Plant** - Design, Build, Operate and Maintain of water treatment- **296 M**
- **SSRN Hospital** - Design, Build, Operate and Maintain of water treatment- **36M**

Completed Projects

Telemetry

- **Caroline** - Supply and installation of borehole pumps to Reservoirs incl telemetry system- **3.2M**

Sewer pump station / Treatment Plants

- **Baie du Tombeau** – Construct & Operate of Sewage and Water pump stations- **17.6 M**
- **Roche Bois** - Design and Construction of Sewer pump stations- **4.6 M**
- **Bambous Lot 1A** – Design, Construct, Operate and Maintain of Sewer pump station- **24 M**
- **Cote D'Or** - Design, Construction of Sewerage pump station- **13.8 M**
- **NHDC housing** – Upgrade, operate and maintain of Sewer pump station and controls- **1.1M**
- **Pailles Guibies** - Design, construct, operate and maintain of Sewer pumping station- **39.9 M**
- **St. Martin** - Upgrading of pumps and accessories at Wastewater Treatment Plant- **3.2 M**

Infrastructure



Water infrastructure



Sewer infrastructure



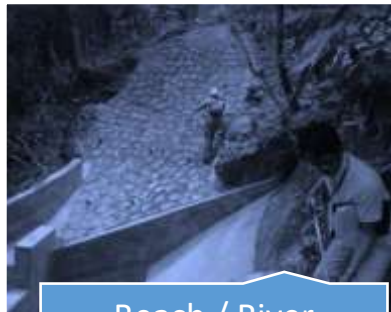
Earthworks

Achievements

Achievements

Achievements

- 2 Million m3 bulk earthworks
- 4 Million m3 trench excavation
- Forest and river clearing
- Deepening of water reservoirs
- Erosion protection
- Exploration pits



Beach / River Rehabilitation



Mechanical & Electrical



Geotechnical solutions

Achievements

Achievements

Achievements

- All fully treatment plant and
- Foundation investigations
- Installation of water boreholes and small piling works
- Geophysical surveys
- (CWA)




ARMADA
RENTAL


ARMADA
RENTAL

A large, close-up photograph of an excavator bucket, rendered in a monochromatic red color. The bucket is positioned diagonally, with its teeth pointing downwards and to the left. The background is a solid, vibrant red, and the foreground shows a rough, rocky surface.

ARMADA RENTAL

YOUR ONE-STOP-SHOP FOR THE RENTAL OF HEAVY AND MEDIUM SIZE EQUIPMENT



ARMADA RENTAL AT A GLANCE

Have you ever scouted the island for the rental of a concrete mobile mixer or a bulldozer or even a generator? Many clients have in fact asked us about the rental of heavy and medium size equipment and after due consideration and some market surveys, we realized the need to have a rental pool of well-maintained, reliable and great quality equipment. From there, Armada was born.

Armada is part of a leading engineering and contracting company since 1986. We are a premier, full-service equipment-rental firm-providing our customers the equipment, services and solutions they need to achieve optimal performance safely, efficiently and effectively.

The company owns more than 1,000 construction and engineering equipment with the largest fleet of hydraulic excavators and air compressors in Mauritius.

FOCUS ON SERVICE & NO COMPROMISE ON QUALITY

A pioneer of the equipment-rental industry, Armada believes in sustained technological innovations, expanded product offerings and value-added services. We are versatile and offer customize solutions for the benefit of our customers.

Our aim is to supply our customers with quality equipment and unparalleled service. We provide our equipment with fully trained operators and 24 hours service assistance to ensure quality of our offerings without disruption. We also provide the full logistic of trucking our equipment to and from the different sites. Furthermore, through our wide pool of national and international engineers we can assist our customers in their various projects.

CUSTOMER SERVICE CENTRE

In our quest to deliver the best of services to our customers, we have partnered with a reputable call centre from Reunion Island with 15 years' experience in customer care.

All demands, needs, requests will be handled by a group of professionals and tracked to ensure that the appropriate service is delivered quickly and swiftly.

This shows how Armada puts the customer first.

We currently service the following sectors :



BUILDING
AND CONSTRUCTION



CIVIL ENGINEERING



GEOTECHNICAL ACTIVITIES



BOREHOLE DRILLING



EARTHWORKS
AND LANDSCAPING



PIPE LAYING
AND TRENCHING



WATER AND SEWER
TREATMENT PLANTS



IRRIGATION



DREDGING



LOGISTICS
AND TRANSPORT



REMOVAL OF BOULDERS
AND ROCK PLACEMENT



LIFTING
AND HANDLING

RESOURCES & MAINTENANCE

The company employs over 100 skilled personnel and operators. The entire fleet is serviced by the representatives of our different A grade brands. Our in-house dedicated service team ensures optimum condition of all our equipment at all times.

Much emphasis is laid on training. Our ongoing in-house development programs ensure that our staffs are trained in all aspects of product performance, system enhancements and service delivery. Specialized training for our heavy equipment operators is provided by the international manufacturers abroad.

Our fleet is one of the strongest in the industry, with a product line that includes everything from small hand-held tools to large earthmovers.

We strongly acknowledge and value that our fleet is the cornerstone of our business and we ensure the highest quality standards for the equipment we rent. As such, we purchase new equipment from the industry's leading manufacturers. Each time a rental item is returned to us, our expert technicians thoroughly clean, inspect, and service the item, making it job ready for the next customer. Armada has a rigorous maintenance and service program through its rental-fleet lifetime. Armada has a rigorous maintenance and service program through its rental-fleet lifetime.

We provide 24/7 workshop intervention within the hour. For minimum disruption to the work sites, we carry maintenance works after hours. We follow a strict preventive maintenance plan in accordance with our quality control processes, which enables us to deliver the highest quality in service. In the unlikely event of a problem with the equipment, a replacement is provided to ensure that we deliver upon our promise.

AC 109

ARMADA 20km/h

CNH



INFRASTRUCTURE

WORKSHOP/STORES

The company has a 800m² in-house maintenance workshop, a tyre store, a wash bay and a 350m² material store for the storage and management of all parts. This enables us to maintain our equipment in top condition and ensures parts availability at all times.

Furthermore all our equipment are regularly inspected and serviced by their respective manufacturers.

REFUELING DEPOT

The 20,000-litre diesel refueling depot is refueled via large tankers and distributed via 5000L in-house mobile diesel bowsers to the various sites and to projects. All equipment and vehicles are fitted with the latest fuel management and fuel ring technology for secure and accurate fuel dispensing. We can provide our customers with daily reports on fuel consumption and work progress to evaluate efficiency.

ARMADA GOES GREEN

All used oil from our workshop is carefully collected and properly orientated and safely reoriented to an oil recycling company. All water from our washing base are collected and recycle for use.



TECHNOLOGY

As we are an innovative and upcoming company, we have invested in equipment of the latest technology to ensure that our clients and us can perform at the highest levels. For example Troxler x-ray machine to verify compaction in trenches or test pumps to verify leakage in pipe laying works. Furthermore to provide better service, we have acquired the following systems :

FUEL MONITORING

This software is designed to integrate all aspects of fleet and fuel management under a single application. It enhances the efficiency of our operations with a close monitoring of KPIs for each equipment.

GPS TRACKING

We used AVL fleet GPS to monitor both the whereabouts and usage of our equipment for maximum efficiency.



TIME & ATTENDANCE

ViperTex Management System is an advanced modular Payroll and Finger print Time & Attendance System. The Time & Attendance Solution together with Sagem Finger Print technology provides accurate employee's attendance; better controlling the amount of overtime and allowances paid as well as leave management.



ENTERPRISE RESOURCE PLANNING

BuildSmart is a web & SQL based Construction Enterprise Accounting system, designed by construction professionals tailor-made for the construction industry.



PRODUCT RANGE



TRACK EXCAVATORS



BACKHOE LOADER



TRACK DOZERS



SITE DUMPER



SKID STEER



LOADALL



WHEEL EXCAVATORS



TRACTORS



WASTE COMPACTOR



LOADERS



TRACK LOADERS



MATERIAL TRUCKS



WASTE CARRIERS



LORRIES



DREDGER



FORK LIFT



PLATE COMPACTOR



AIR COMPRESSOR



DIESEL BOWSERS



LOWBED TRAILER



DRILLING RIGS



COMPACTION ROLLER



VIBRATING TAMPER



BREAKERS



GENERATORS



1MW LPG GENERATOR



CONTAINERS



WATER PUMPS



WASTE SKIPS

OUR VALUE PROPOSITION

1. We deliver A grade equipment with skilled and experienced operators to your door step.
2. We provide 24/7 workshop assistance to deliver quality without disruption.
3. A professional customer service centre ensures you get the best services at all times.
4. We provide tailor made solutions and technical counselling to cater for all your needs.

Account queries – (942-0000)
Sales / Rental – (942-0000)
Breakdowns – (942-0000)
Manager – (942-0000)



Equipment Rental

1000
equipment

Large Fleet

30
years

30 years experience



Workshop / maintenance



Logistics / Transport



Customer service centre



Highly trained + skilled operators



24hr service assistance



Specialized equipment

Product Range

 TRACK EXCAVATORS	 BACKHOE LOADER	 TRACK DOZERS	 SITE DUMPER	 SKID STEER	 LOADALL
 WHEEL EXCAVATORS	 TRACTORS	 WASTE COMPACTOR	 LOADERS	 TRACK LOADERS	 MATERIAL TRUCKS
 WASTE CARRIERS	 LORRIES	 DREDGER	 FORK LIFT	 PLATE COMPACTOR	 AIR COMPRESSOR
 DIESEL BOWERS	 LOWBED TRAILER	 DRILLING RIGS	 COMPACTION ROLLER	 VIBRATING TAMPER	 BREAKERS
 GENERATORS	 1MW LPG GENERATOR	 CONTAINERS	 WATER PUMPS	 WASTE SKIPS	

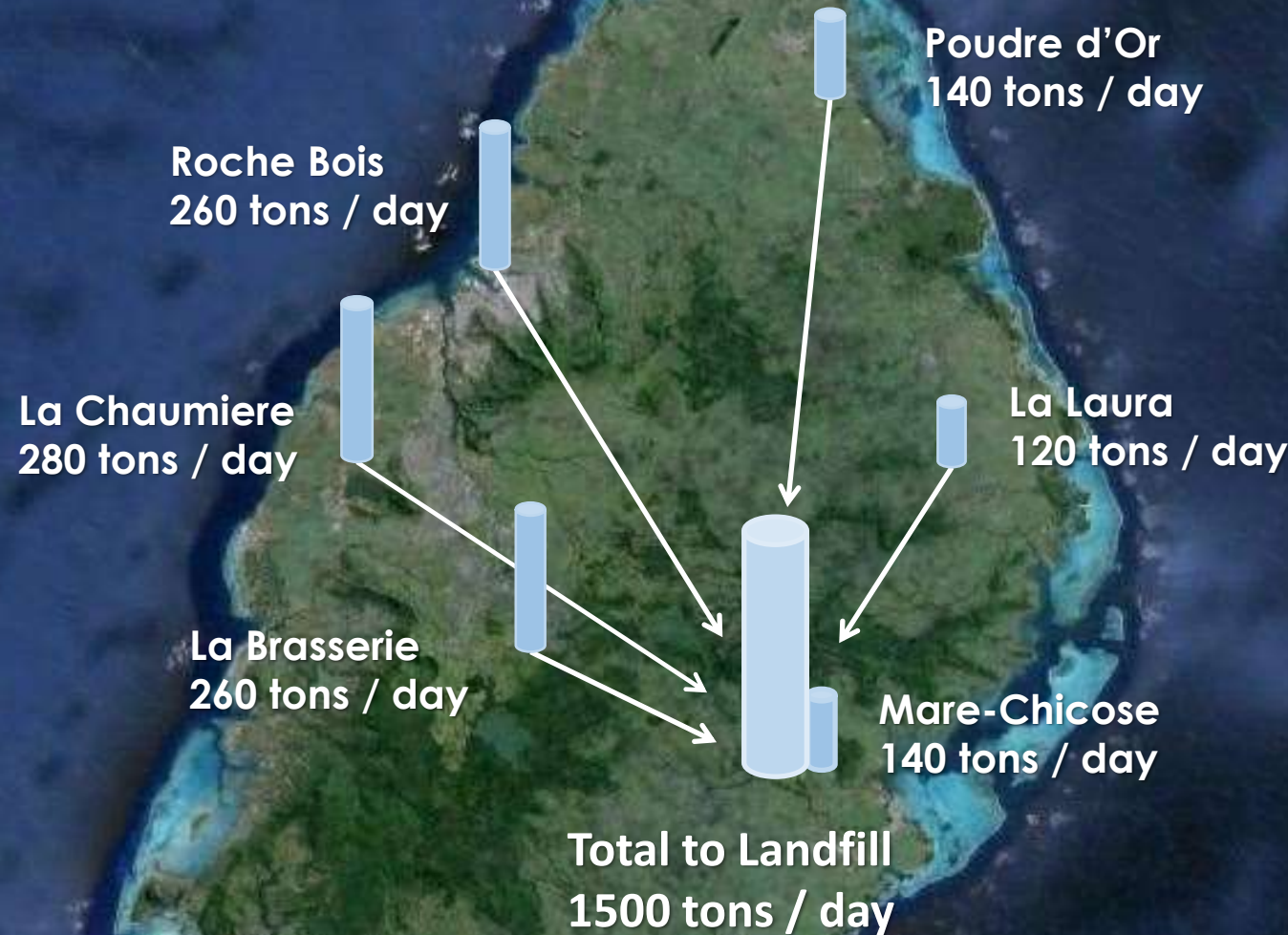
Our value proposition

- We deliver A-grade equipment with skilled and experienced operators at your door step.
- We provide 24/7 workshop assistance to deliver quality without disruption.
- A professional customer service centre that ensures you get the best services at all times.
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AGENDA

- History
- Core Strengths
- Group Structure - Business units
 - Infrastructure
 - Geotechnical Investigation Solutions (GIS)
 - Construction
 - Equipment Rental
 - Waste & Energy

Industry today



540,000 tons of waste per year

5 operating Transfer Stations

1500 Tons per day transported in 30 tons trailers to Mare-Chicose

35 to 40 trailers every day

Average waste travel: 40 km

Mare Chicose Sanitary Landfill

Constructed in 1996 and currently covers 45 ha

Consists of 7 waste cells and receives 540 000 t/a

- Weighbridge with lorries incoming and outgoing
- Screening of incoming waste before acceptance on site

Engineered with proven technologies

- Impermeable membranes and final capping
- Stringent gas and leachate management
- Continuous environmental monitoring by third parties

Sotraviv operates the landfill and energy plant

- Construction, operation and maintenance of cells
- Developed and owns the landfill gas to energy facility



Waste & Energy

Handling 400t of waste per day



Waste Collection



Management of
Transfer stations



Landfill Management



Gas to Energy

Waste Compaction






Grand Port District – in progress Management of Landfill site



Management and operation of the Mare Chicose Landfill Waste Site has been awarded since. Operations comprise – Reception/inspecting/weighing/depositing/grading to slopes and compaction of 530,000 tonnes/year of Municipal Waste - Draining of 10,000m³/month of leachate and transport by tankers to approved discharge point - Extraction of 2,000m³/hour of landfill gas and pumping to flares or power station - Generation of 3MW electricity from landfill gas – Gas management to maximize UNFCCC Carbon Credits. - Health and safety and security measures - Recording and reporting data on all of above.

PROJECT TITLE 
Management, Operation and Maintenance of Waste Cells at Mare Chicose Landfill.

PROJECT FACTS 
Project Duration: 14.5 years
C. Value: Rs 1,150 million
Waste Handling: 530,000t/yr
Leachate Removal:
10,000m³/month

CHALLENGES 
Constant monitoring of and preparedness for risk in a potentially dangerous environment. Plant maintenance in a damaging environment.

CLIENT TEAM 
Employer: Min of Environment
Employer's Rep: LUXconsult (Mts)

SOTRAVIC TEAM
GM: Mehran Abdouramane
PM: Axel Jost/Armio Lafleur/Franz Lautner



POTABLE WATER

SEWER

WASTE

ENERGY


PLANT





Grand Port District – in progress 23ha Landfill Site Construction



The contract for the continuation of construction of the Mare Chicose Landfill Waste Site was awarded in 2006 followed by further contracts up to 2018. Since 2006, 8 waste cells have been constructed totalling 23 Ha with either HDPE or bentonite enhanced clay watertight linings with electronic leak detection and ground water and leachate drainage systems. Following waste placement further construction includes water and gas tight cell capping and drilling of gas extraction wells and the gas collection system. Ancillary works include access roads, gas flares, lined leachate collection ponds, hazardous waste cells, security measures etc.

PROJECT TITLE 
Construction of Waste Cells
at Mare Chicose Landfill Site

PROJECT FACTS 
Project Duration: 14.5 years
Contract Value: Rs 1 600 million
New waste Cells: 235,000 m²
Capping: 425,000 m²
500mm gas wells: 260 No.
Pipelines: 23,000 m

CHALLENGES 
Construction of embankments and linings in high rainfall area. Drilling and maintaining 500mm dia. gas wells up to 30m deep.

CLIENT TEAM 
Employer: Min of Environment
Employer's Rep: LUXconsult
(Mts)

SOTRAVIC TEAM
GM: Mehran Abdouramane
PM: Axel Jost/Armio
Lafleur/Franz Lautner



POTABLE WATER

SEWER

WASTE

ENERGY

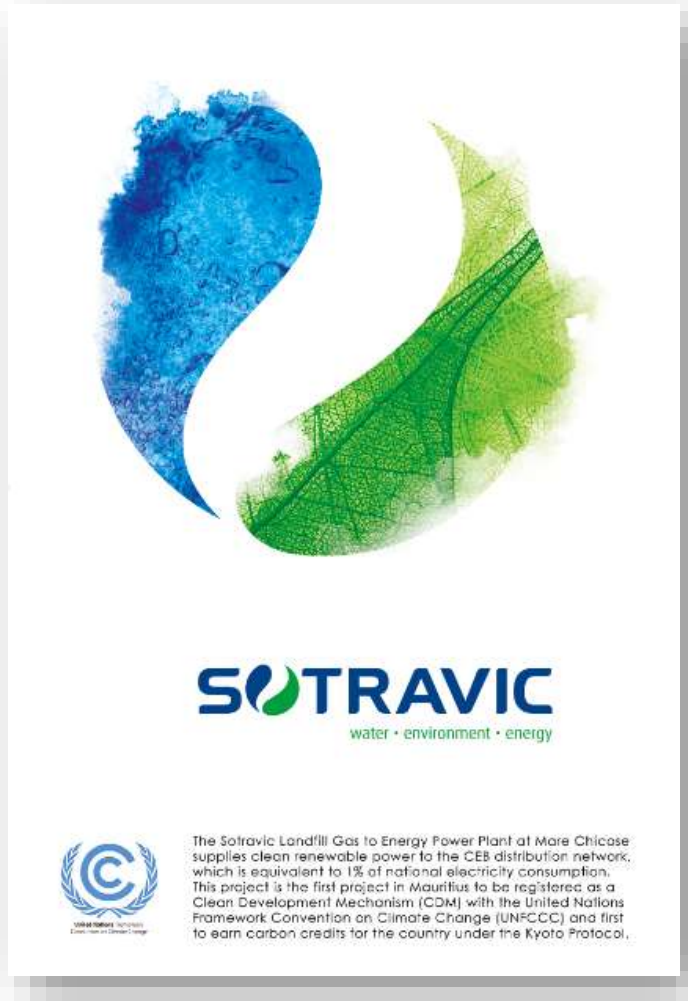
PLANT

Landfill Gas to Energy plant is the sole Mauritian project certified under Kyoto Protocol

- ▶ Landfill gas (approx 50% CH₄) from waste decomposition collected by network of 100 Gas wells connected to 3 Gensets for Power generation
- ▶ Total 3.3 MW and 1% of the Country's electricity 22 Gwh certified since 2012
- ▶ Certified Emission Reductions Revenues – shared between Ministry of Local Government, CEB and Sotraviv



United Nations
Framework Convention on
Climate Change



The SOTRIVIC logo is positioned in the center of the slide, featuring a stylized 'S' shape composed of a blue water droplet and a green leaf. Below the logo, the text 'SOTRIVIC' is written in a bold, blue, sans-serif font, with 'water • environment • energy' in a smaller, green font underneath. At the bottom left of the slide, there is a small version of the UNFCCC logo. To its right, a paragraph of text describes the project: 'The Sotraviv Landfill Gas to Energy Power Plant at Mare Chicose supplies clean renewable power to the CEB distribution network, which is equivalent to 1% of national electricity consumption. This project is the first project in Mauritius to be registered as a Clean Development Mechanism (CDM) with the United Nations Framework Convention on Climate Change (UNFCCC) and first to earn carbon credits for the country under the Kyoto Protocol.'



Black River District – in progress

120000t Waste Transfer Station



The operation of La Chaumière Waste Transfer Station is one of a number of Waste Management contracts carried out by Sotravac. La Chaumière started operation by Sotravac in May 2010 with the contract presently extended up to end 2015. The project comprises – Receiving waste and operating the Transfer Station on a daily basis - Maintenance of offices, infrastructures, weighbridges, lighting, other services including computer systems and software - Transport of all daily incoming wastes in special Roll-on and Roll-off lorries and truck trailers from the Transfer Station to Mare Chicose Landfill.

PROJECT TITLE



Operation & Maintenance of La Chaumiere Transfer Station (TS), Carting of Waste from La Chaumiere Compost Plant to TS & Transport Waste from La Chaumiere TS to Mare Chicose Landfill –

PROJECT FACTS



Project Duration: 3 years
Contract Value: Rs 176 million
Waste Transit: 180,000 t/year

CHALLENGES



Neighbouring industries impacting operations by pollution, fires or blasting. Constant monitoring and management of health, safety, security and welfare.

CLIENT TEAM



Employer: Min. of Environment

SOTRAVIC TEAM

CM: Alvin Kuppadu



POTABLE WATER

SEWER

WASTE

ENERGY

PLANT



Plaines Wilhems District – in progress 80000t Waste Transfer Station



The operation of La Brasserie Waste Transfer Station is one of a number of Waste Management contracts carried out by Sotravac. The project comprises – Receiving waste and operating the Transfer Station on a daily basis - Maintenance of offices, infrastructures, weighbridges, lighting, other services including computer systems and software - Transport of all daily incoming wastes in special Roll-on and Roll-off lorries and truck trailers from the Transfer Station to Mare Chicose Landfill.

PROJECT TITLE

Operation & Maintenance of La Chaumiere Transfer Station (TS), Carting of Waste from La Chaumiere Compost Plant to TS & Transport Waste from La Chaumiere TS to Mare Chicose Landfill –

PROJECT FACTS

Project Duration: 3 years
Contract Value: Rs 103 million
Waste Transit: 80,000 t/year

CHALLENGES

Neighbouring industries impacting operations by pollution, fires or blasting. Constant monitoring and management of health, safety, security and welfare.

CLIENT TEAM

Employer: Min. of Environment

SOTRAVIC TEAM

CM: Alvin Kuppadu



POTABLE WATER

SEWER

WASTE

ENERGY

PLANT

