



O.D.E

Office De l'Eau
Martinique

"Agir aujourd'hui pour
préserver l'eau de demain..."

ACTIVITY REPORT SYNTHESIS

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The **word of the President**

Claude LISE, PRESIDENT

‘ODE SHALL INTENSIFY ITS ACTIONS TO FACE, AT A BASIN LEVEL, MAJOR ENVIRONMENTAL ISSUES’

13 years after promoting the proposal to establish the Offices de l’Eau des Outre-Mer – Water Offices in the OTCs, and contributing to the creation of ODE Martinique in 2002, I was very pleased to take over its presidency in 2016. Indeed, I am particularly committed to this structure, which today demonstrates expert knowledge in Martinique, in main land France, and even on the international scene, and I am committed to pursue my actions and promote water, marine environments and coastal areas conservation on our island.

2016 activities were reflected in the many initiatives undertaken in conjunction with Office de l’Eau missions, carried out by a team with unprecedented expertise whose dynamism deserves a mention.

The Office De l’Eau intends to increase its activities in 2017, as defined under the third PPI 2017-2022, and address issues relating to water management sustainability, in compliance with the SDAGE 2016-2021, and to address the major environmental challenges facing us, at the basin scale.



Editorial

Michéla ADIN, MANAGING DIRECTOR

‘ODE, SUPPORTING AN INTEGRATED WATER MANAGEMENT IN MARTINIQUE’

2016 marks, for ODE, the launching of a new management cycle of the Martinique’s basin. It also is the year that sees the end of the 2nd Programme Pluriannuel d’Intervention (PPI – Multiannual Intervention Program) 2011- 2016, and the drafting of the 3rd PPI 2017- 2022.

The year 2016 was also marked by the initiation of a new governance, and Claude LISE taking over as Chair of the Executive Board.

Last but not least, 2016 will be a landmark year in terms of international cooperation, with the continuing and strengthening of the cooperation cycle launched in 2014.

Beyond these changes, ODE continued to carry out its core missions, on the fields of knowledge research, information dissemination, raising awareness among communities, and providing a financial and technical support to water operators.

Martinique’s ODE team and I are proud to present you with our 2016 activity report.

Our work still goes on and we are more motivated than ever, striving to improve knowledge on water in order to better inform and foster awareness in our communities in Martinique!



Ensuring water governance in the Martinique Basin



► Implementation of SDAGE 2016 - 2021

ODE has carried out initial actions from the new Water Development and Management Framework Directive (SDAGE) and its Program of Measures (PDM). It integrates climate change impacts, lays emphasis on wetlands, marine areas and their ecosystems, onsite sanitation and river fishing.

► Drafting of the 3rd PPI 2017 - 2022

Adopted in December 2016, ODE wishes to develop its 3rd Multiannual Program jointly with its partners.

► Striving to work at the core of large-scale projects

Some work undertaken in 2016:

- Discussion on a social water policy
- Distribution of structuring projects: creation of a Marine Park, creation of the Galion River Committee and the OMB (Biodiversity Observatory of Martinique), the South Coast Contract, the "Martinique a sustainable Island" program, the Plan EAU Dom (OCT's Water Plan), the "Unique Forest Label"
- We joined the Conseil Maritime Ultramarin du Bassin des Antilles (Overseas Maritime Council of the Caribbean Basin - CMUBA)

► Develop partnerships

- Drafting of the 2017 – 2022 agreement with DEAL (Environment, Spatial Planning and Housing Bureau)
- Multiannual tripartite agreement ODE/ONF (National Forest Office) /PNRM (Regional Natural Park of Martinique):
16 actions in 2016, a financial support of 178,500 Euros
- Conservatoire du Littoral – coastal protection agency: 11 actions, 135,900 Euros contribution
- Technical support agreement with IFREMER, 30,000 Euros contribution
- CIRAD (French Agricultural Research Centre for International Development): signing of the Chlor-Eau-Sol - Chlorine-Water-Soil Agreement, 57,000 Euros contribution

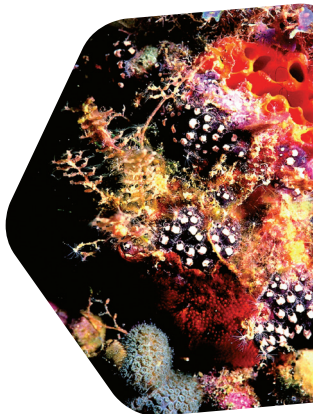
► Launching of new private partnerships:

- Partnership with Dénébola Cruises to implement awareness actions for the water ecosystems and the maritime environment protection,
- Partnership with Expédition 7^{ème} Continent, designing of multimedia tools on waste drifting, school focused interventions.



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Monitor and investigate aquatic environments quality and usage pressure



► Monitoring networks have been optimised

The coastal network has been redefined and now has 9 'sea grass beds' stations, 15 'coral reefs' stations, and 20 physiochemistry and phytoplankton stations. The river network has 28 stations, and the groundwater network, 21 stations.

► Improving knowledge of marine environments

21 researches were launched, 10 are completed, 11 are still ongoing.

► Some key researches:

- Chlor-Eau-Sol, on chlordecone contamination
- Martinicans and rivers
- Madibenthos expedition with the Natural History National Museum
- Ecological continuity and ability to overcome obstacles for Martinican species
- Reducing fungicides impact in banana packaging stations
- Achieving good status for Oman River
- Sea grass beds with the CNRS

AN INTENSIVE YEAR MONITORING THE WATER RESSOURCE

278	days spent on monitoring networks and marine environments quality
197	days out for the field unit
382	samples taken from rivers (field unit)
80	routine monitored stations
4	surveyed control stations (wastewater treatment plants impact) 3 river discharges, 1 sea discharge
73,890	new data entered on the AQUATIC database (river chemistry ODE database, 675,396 in total)
9,759	data on groundwater quality fed on the ADES (national database)
621	water chemistry parameters (430 surface waters, 191 groundwaters)
5	biological indicators: diatoms, invertebrates, corals, sea grass beds, and phytoplankton (organisms found in rivers that provide information on the water stream status)

Key figures

137	field days in total:
58	ATTENTIVE projects days
41	days on Oman River
20	wastewater treatment plants monitoring days
12	electrofishing days

3 Providing technical advice and professional expertise to local governments



▶ Developing the competence of stakeholders

Two vocational trainings organised and 40 people trained:

- 'Preparation, management and monitoring of grant application' in partnership with ONEMA (Water and Aquatic Environments International Office) and the Prefecture.
- Environmental Education on primary schools' request

▶ Draft agreements with professionals

Two multiannual agreements signed. One with the Chamber of Agriculture: implementing vocational courses on the themes of irrigation optimization, livestock manure management... One with the CNFPT (National Centre of the Territorial Public Service): local government's staff responsible for water management, and council workers development programme.

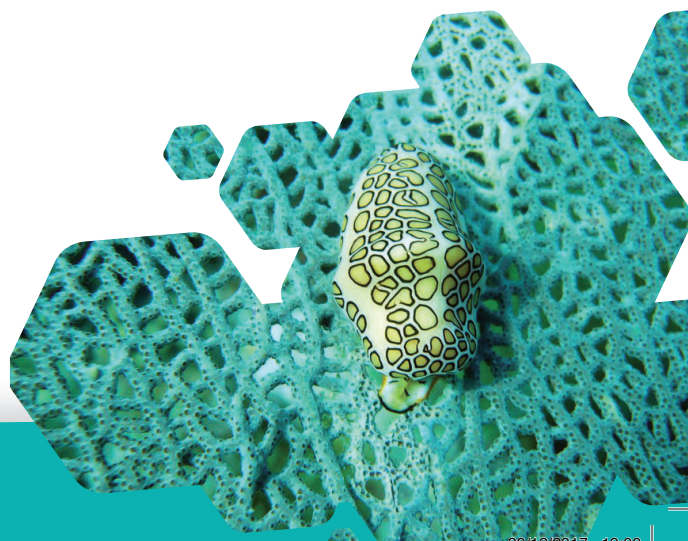


▶ Supporting local governments and private parties

270 technical support days: advising towns on river management, STATSPANC (Technical and administrative assistance service for the Public Control Service of Non Collective Sanitation Systems), management of the sludge generated by sanitation plants, Drinking Water sanitation stewardship, definition of water streams, definition of sensitive areas, phytosanitary pollution, environmental contracts consultation, natural reserves, advisory role on Local Planning Regulations, on SCOT, water law records, ecological continuity...

Furthermore, ODE has been involved in:

- providing support to sanitation plants with investigations on human and logistical resources needs
- rain water characterization study; identifying sanitation plants in order to encourage greater account taken of this resource by local governments and private entrepreneurs
- continuation of the ATTENTIVE project, a French Vertical Flow Constructed Wetlands sanitation project



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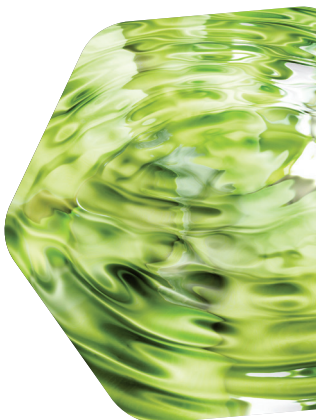
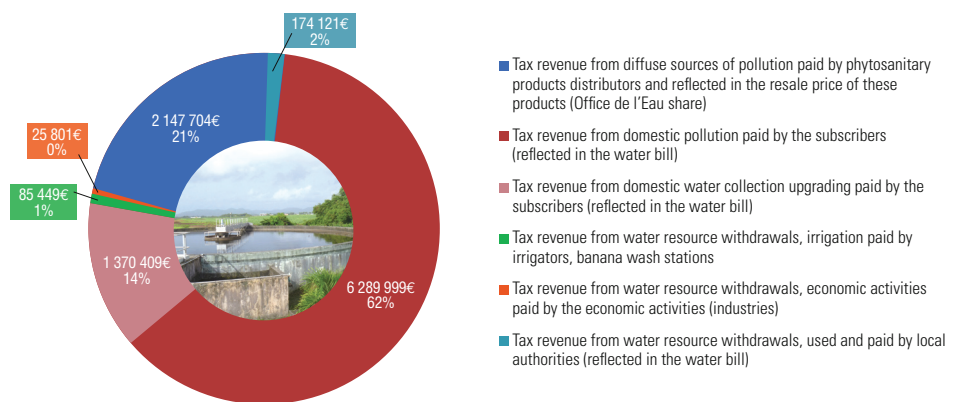
Promoting the water resource by financing public and private operations



► Taxes: over 10 million in revenues

All water users pay a tax to fund water resource management and protection actions. 10,093,483 Euros of revenue from the 2015 financial year, of which, 9,808,112 Euros came from water bills (97%).

Basin revenues: financial year 2015



► Subsidies: Over 4.5 million Euros of granted subsidies

ODE draws from these taxes to grant subsidies to public and private stakeholders to develop and support projects of common interest, and a balanced approach to managing and protecting the water resource:

- 4,563,769 Euros from 2016 revenues

- an extra 102,735 Euros taken from the original 2017 budget credits

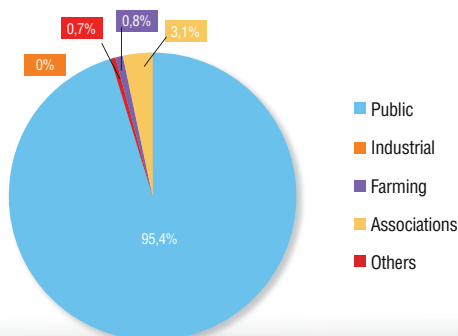
The public, prime beneficiary

95.4% of subsidies were granted to the public sector, local authorities, stakeholders of the basin, and 4.6% to the private sector.

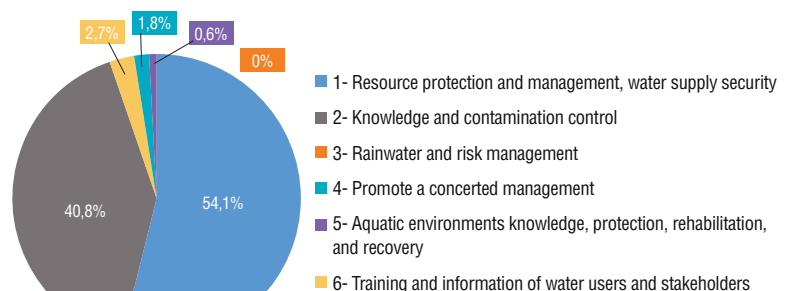
► Protection of the resource, a priority

94.9% of subsidies were granted to resource protection and pollution control operations.

ODE subsidies granted in 2016 distribution per beneficiaries



Distribution of ODE granted subsidies in 2016



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Providing citizens with accessible information on water



► Improve information dissemination

Several water studies have been disseminated, aquatic environments quality assessment, economic assessment, and Cost-efficiency analysis of the SDAGE Programme of Measures. Three general public brochures were edited and distributed.

► Raising awareness among all users

Trade fares, conferences and events organised by partners, the number of public speaking events is on the increase.

Educational activities representing over 35 days of field visits: 1,500 pupils reached ranging from primary schools to post graduate students.

ODE has participated in all of Martinique's major events: Valora, D'Clic Logement (Housing Forum), Tour des Yoles (Yawl Boat Race), 20th anniversary of the Basin Committee, Science Celebration Day, Sustainable development week, International Forestry day, World Water Day...



► An intensified media attendance

Television, radio, papers, websites and social media... The Office has increased its media coverage in order to reach a greater public. At the end of 2016, its Facebook page had reached 1,573 'Like'.



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The 'Observatoire de l'eau' – Water Observatory – a collaborative instrument for everyone



► www.observatoire-eau-martinique.fr : a growing audience

- In 2016: 31,296 unique visitors, during 40,832 sessions,
- And a total of 90,553 browsed pages
- 640 downloadable documents

► No fewer than 6 information tools

- The mapping web portal <http://cartes.observatoire-eau-martinique.fr>
- www.geomartinique.fr
- GIS database Chlordecone-Eau
- Web GIS water police application for internal use (DEAL agreement)
- GIS Web page of catchment areas for internal use (ARS – Regional Health Agency - agreement)
- Editing of data collected by the Sentinelle Réseau (Sentinel Network)



► Support to partners

- Involvement in the following researches: social pricing policy for water and sanitation, Key environmental figures, OPMR (Observatory of Prices, Margins and Revenues) water and sanitation public services rates;
- Research data collection, in particular on landslide risks vulnerability of sanitation and drinking water systems.



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Passing the French know-how on to the Caribbean, the international water governance will be a focal point



► Institutional cooperation

- Annual general assembly of INBO (International Network of Basin Organizations) in Merida, Mexico (June), presentation on 'Water and climate change in tropical island basins'
- 14th Euro-INBO international Conference (October), participation in the round table 'adaptation to climate change'
- 4th edition of the International Rendez-vous on Integrated Water Management, in Quebec (November)
- COP22, Morocco (November), presentation on 'Preserving the quality of water in Martinique, reality, threats, and prospects'.



► Regional cooperation

- Participation in sub-regional programming meetings
- Organisation of the 42nd meeting of the Caribbean Global Water Partnership steering committee, in Martinique
- New member of the North American Network of Basin Organisations (NANBO)
- Contact with Latin American Network of Basin Organisations (LANBO)

► Decentralised cooperation

- Completion of a project : restoration of the drinking water supply system and rehabilitation of water standposts in Haiti, town of Thiotte
- Technical start-up support in Havana, Cuba, in partnership with the International Office for Water and the Agence de l'Eau Adour-Garonne (Adour-Garonne Water Agency)



PROSPECTS...



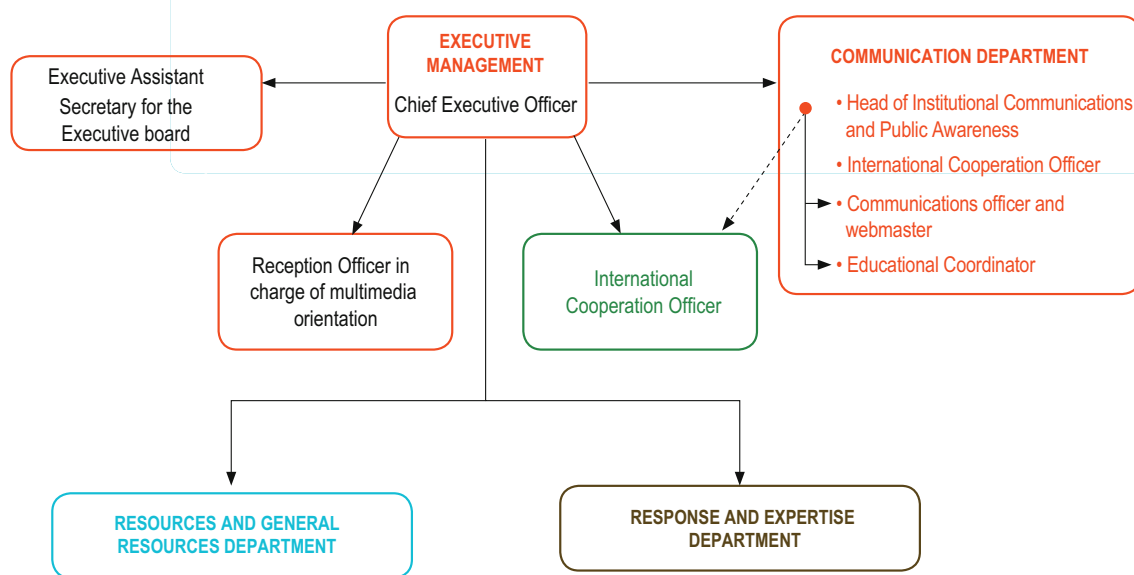
▶ 3RD PPI 2017-2022, 6 large scale projects

- Design Island based decision-making support tools
- Implement AEP (Sewerage and Drinking Water) systems and collective sanitation planning
- Implement a water supply network and collective sanitation stewardship
- Manage rainwaters and control water runoff
- Upgrade non-collective sanitation facilities and insure their sustainability
- Reduce environmental impact of development and port activity areas

▶ Turn ODE into a water resource centre

A place of reference for everyone, providing spaces where conferences, exhibitions, workshops... could be hosted.

▶ Reflecting on a new internal organisation



▶ A TEAM AND RESOURCES COMMITTED TO ADDRESS WATER RELATED ISSUES

End of 2016, ODE has rallied 25 staff members in the service of the water resources

ODE's Executive Board

- 18 members entitled to vote: 15 from the Basin Committee and 3 State representatives
- 4 members may take part in an advisory capacity.

... AND NOW 2017 / 2018 KEY ISSUES

► Bridging the gap between water and biodiversity local policies

The law on biodiversity of August 8th, 2016 has redefined water and biodiversity governance. It sets up the Agence Française pour la Biodiversité (French Agency for Biodiversity – AFB) with the merging of the former ONEMA, Marine Protected Areas Agency, and bringing together national parks as well as the technical workshop for natural areas. In the OCTs, the Basin Committee becomes in 2017 the Comité de l'Eau et de la Biodiversité (Water and Biodiversity Committee – CEB). ODE has therefore a new Executive Board. Biodiversity has however not been on the Office de l'Eau's agenda.

► Optimisation of tax collection, a major financial challenge

► Drawing up indicators specific to a basin island in a tropical environment and to inherent pressures

► ODE Martinique's expertise dissemination across the Caribbean

- Promote a 'French style' expertise on integrated water resource management
- Expertise adapted to tropical environments
- Willingness to strengthen knowledge and expertise exchanges with other islands.





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