

Incubation and financing of water and climate projects

INVOLVEMENT OF FRENCH WATER AGENCIES IN ADAPTATION TO CLIMATE CHANGE



Sandrine ROCARD,
Seine-Normandy water agency executive director

rocard.sandrine@aesn.fr

French water agencies

Implement water policy in cooperation with governmental services at the basin level

Bring **technical advice** and **financial support** to all project managers (local authorities, economic users, associations)

Collect taxes and grant subsidies for actions that preserve water resources and aquatic ecosystems

Manage the **basin committee** (water stakeholders “Parliament”)



6 main basins



**Seine-Nor
mandy
basin**

Main objectives :

preserve **water resources** and achieve good ecological status for all waterbodies (EU 2000 water framework directive),
preserve **biodiversity** in the context of **climate change**

Climate change adaptation strategies

2015 (COP21) : Paris Pact on water and adaptation to climate change in the basins of rivers, lakes and aquifers

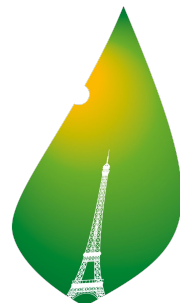
climate change adaptation strategies in each French basin

Seine-Normandy basin : dec 2016, oct 2023



Objectives of the Seine-Normandy basin strategy :

- 1- **Reducing water dependency**
- 2- **Preserving water quality**
- 3- **Anticipating the consequences of coastal erosion and sea level rise**
- 4- **Preserving biodiversity and ecosystems services**
- 5- **Increasing infiltration to limit runoffs**
- 6- **Promote the natural filling of groundwater ressources**
- 7- **Combating vulnerability to heat waves**
- 8- **Supporting stakeholders for profound behavioral changes**



COP21 • CMP11
PARIS 2015
UN CLIMATE CHANGE CONFERENCE

Climate change adaptation strategies

Provide **guidelines and tools**
for local action :

Think globally, act locally !

Plans and measures to be built collectively

at the local sub-basin level (**governance** : state/government services, local authorities, industrials, farmers, associations) and **shared with all users**

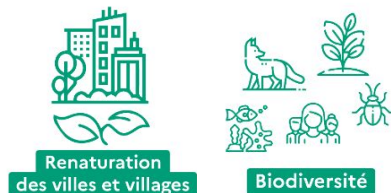
Improved and shared **knowledge of the evolution of the water cycle** in climate change context, of the **state of the resource**, of **withdrawals**

Promote **water sobriety** for all sectors
and **nature based, multifunctional solutions**



Climate change adaptation funding

Since 1964 : water agencies (taxes & subsidies)
A mutual organization dedicated to water resources
€ 13 billions for 2019-2024
(€ 4 billions for the basin : water and climate program)
More than 50 % dedicated to climate change adaptation



January 2023 : green fund - for accelerating ecological transition in territories – water agencies in charge of two measures
€ 250 millions in 2023 (€ 81.3 millions for the basin)
For the basin : € 19 millions in support of biodiversity
€ 62.3 millions for the renaturation of cities and villages

March 2023 : national water plan – sobriety as a main objective
€ 475 millions / year additional resources for water agencies in 2025-2030 (taxes)

Anticipating consequences of coastal erosion & sea level rise

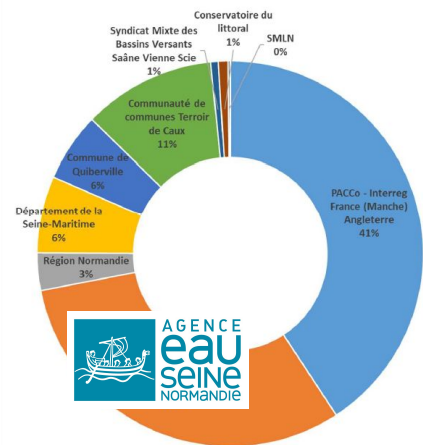
Basse Saône 2050 project

Multithematic spatial recomposition project

Project amount : € 16 million
Subsidies amount : € 5 million



Subsidies per funder



Strategic relocations (1, 2, 6)
Improvement of water quality (3)
Restoration of aquatic and wetland environments (2, 4, 5)
Flood and submersion risk management (2, 6)



Cristal Union project in Bazancourt

1 million cubic meters of water saved annually
Towards water autonomy for all facilities in 2023

Project amount : € 27 million
Subsidies amount : € 10.5 million



Recovery and storage of process water (50 % of the weight of processed sugar beets is recovered)



Replace external water (drilling) with process water
Example : for steam production



Reuse of process water for irrigation in crop cultivation

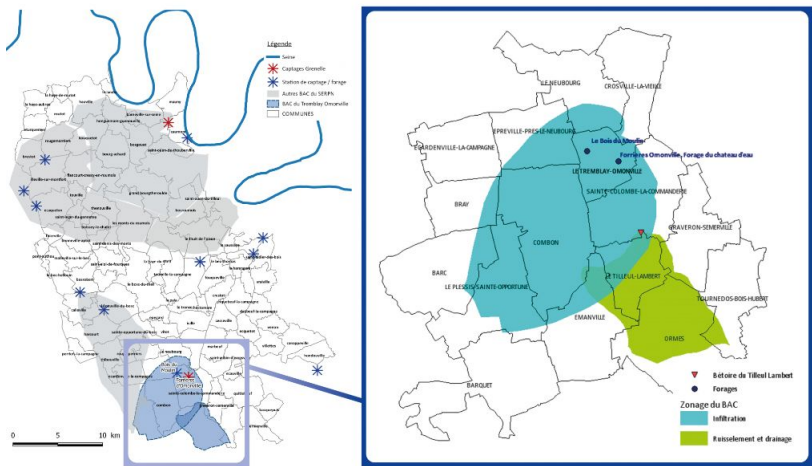
Preserving water quality & reducing water dependency

Payments for environmental services

Roumois and Plateau de Neubourg Water Union

Project amount : € 1.9 million (2019-2024)

Subsidies amount : € 1.9 million

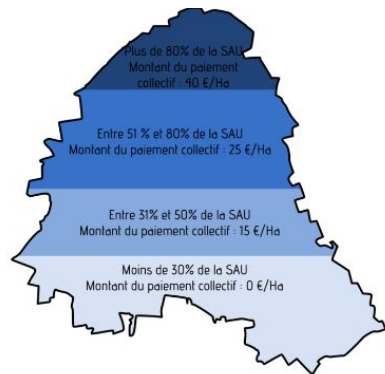


Tremblay Omonville's water catchment area

Individual
performance



Collective
commitment



61 farmers involved

2.500 ha agricultural
areas committed in the
water catchment area

Combating vulnerability to heat waves Increasing infiltration – Preserving biodiversity An urban forest in Paris



Project amount : € 3 million
Subsidies amount : € 1.3 million



12 400 square meters of project area
Over 4 000 square meters of forest
for a total of 470 trees

60% canopy cover index
50% of restricted area

Water & climate projects for Africa initiative

- Performance of wastewater treatment plants
- Wastewater recycling
- Water savings in agriculture...

Technology and infrastructure

Aquatic biodiversity

Governance

- Nature-based solutions (planting in the flood plain, promoting the protection of wet meadows ...)
- Limit waterproofing
- ...

- Linkage with urban planning documents
- Share good practices
- Increase awareness and inform on major impacts (coastal erosion, flood...)

13 projects incubated over 5 years (2018-2022)

in the context of institutional partnerships between French water agencies and foreign authorities

Countries	Territories
Burkina Faso	6 municipalities of Nakanbe basin / Massili basin / unpstream of Mouhoun basin
Cameroon	Sanaga Basin
Malawi	Upper South Rukuru basin and Mzimba river
Madagascar	Districts of Itasy, Haute-Matsiatra, Vakinankartra
Morocco	Sebou basin
	5 municipalities of the Arghen valley and Tiout Oasis - Souss Massa basin
Niger	Dallol Maouri basin
Senegal	Somone basin, OMVS
Benin	5 municipalities of coastal lagoons (Mono downstream), Lower and middle valley of the Oueme basin

Subsidies amount (6 agencies) :

€ 0,65 million



Thank you for your attention !

