

SIAAP 2030

Strategic directions

A new deal

Protection of the environment and natural habitats

Financial sustainability

Shortage of resources

Climate change

Urban pressures

Bathing

Greater Paris Metropolis

Vision & missions

Offer the best service at the lowest cost

Fully deploy the potential of wastewater management for the benefit of people, the city and the environment

Put our resources at the service of the climate

Put wastewater management at the service of a smart and sustainable city

Take account of the challenges posed by the activities of the city of tomorrow

EFFICIENT WASTEWATER MANAGEMENT

Programs

OPERATING with efficiency and sobriety

MANAGING the wastewater treatment system at the SIAAP level

OPTIMISING maintenance

STRENGTHENING asset management and control of the investment process

OPTIMISING purchasing related to operations and maintenance

AN ASSET FOR THE SUSTAINABLE CITY

RECYCLING resources at the territorial level

INITIATING urban synergies

TAKING INTO ACCOUNT evolutions in society

Actions

1. Improve the energy efficiency of electrical equipment
2. Optimise primary sedimentation (instrumentation and injection of FeCl)
3. Improve biological treatment by means of bio filtration
4. Improve biological treatment by means of BRM with the goal reducing costs
5. Optimise sludge treatment facilities, including incineration of the sludge on MAV
6. Optimise the thickening process ahead of digestion starting from the experience of the Seine downstream
7. Control the impact of SAV renovation on the risk of gas and the consumption of associated reagents
8. Optimise the management of fats in SIAAP plants and networks
9. Optimise the consumption of flocculation products (Nutriox, Ferrous Chloride...)
10. Optimise the consumption of reagents in physico-chemical deodorisation units
11. Improve tools and resources in order to be more efficient on a daily basis
12. Improve the effectiveness of maintenance on the SIAAP's overall wastewater treatment system (network)
13. Develop the robotisation of maintenance in the SIAAP's networks

14. Optimise the regulatory flexibility (treatment plants and networks) for compliance with the WFD within the SIAAP zone
15. Better management of accidental pollution which is liable to occur at the perimeter of the collection basin
16. Implement a coherent and appropriate macro-process to ensure the overall control of the wastewater treatment system
17. Implement a coherent and appropriate macro-process for exchanges with the authorities (DRIEE, AESN, Europe)
18. Increase the room for manoeuvre of the networks and ensure the security of the power supply to treatment plants
19. Increase flow variations and loads on the treatment plants
20. Increase the capacity of treatment plants that are restricted by organisational constraints
21. Better understand the purification capacity of SIAAP treatment plants and their adequacy compared to the evolution of loads
22. Set up help for plant and network instructions, and a global and shared vision of the system environment
23. Improve the assessment of the financial impact on the flow management trade-offs
24. Develop a multi-criteria process for optimising the flow distribution
25. Adapt and revise the current indicators to reflect the system performance, including the WFD objectives

26. Harmonise the maintenance policy through tools and practices
27. Define the maintenance functions to be centralised and implement them
28. Define and implement a methodology for assessing the criticality of facilities
29. Harmonise availability indicators for facilities
30. Improve and develop conditional maintenance
31. Homogenise, improve and better formalise maintenance planning based on CMM
32. Harmonise the use of CMM across all SIAAP departments
33. Reorganise multi-year planning in order to better co-ordinate it (intersites - centralised operation)
34. Optimise inventory management
35. Establish a "central workshop"
36. Assess the potential for internalisation
37. Improve document management to take into account all significant technical changes

38. To carry out a physical diagnosis of assets and implement a monitoring process for buildings and facilities
39. Complete the methodology and governance to prioritise investments in renovation
40. Redefine the organisation of future new projects in the context of the number of major design and development projects
41. Consolidate the physical and accounting inventory of assets
42. Redefine and coordinate technical support
43. Improve the knowledge and monitoring of real estate heritage to ensure the sustainability of structures and their accessibility

44. Improve the selection process for reagents
45. Renegotiate the sludge disposal contracts with a SIAAP vision
46. Improve the use and monitoring of contract execution procedures
47. Further optimise major maintenance contracts
48. Optimise electromechanical maintenance contracts
49. Continue to optimise energy purchasing
50. Implement the means by which information may be input into the CMM by external companies
51. Boost the functioning of the professional Purchasing network

52. Reuse industrial water to save drinking water
53. Optimise the energy consumption of SIAAP sites
54. Optimise the production, use and recycling of biogas
55. Develop the sludge recycling strategy
56. Recover the heat produced by turbo-compressors
57. Recover unavoidable heat
58. Develop the strategy for ash disposal and recycling
59. Consolidate energy challenges and the associated strategy
60. Manage waste products (BTP, OM, laboratory, excavated soil, etc.) excluding treatment waste (sludge, sand, etc.)
61. Improve sand recycling
62. Develop reuse for the SIAAP and its partners

63. Develop relationships with contributors to the Greater Paris wastewater management system in order to better coordinate operations
64. Promote a comprehensive and concerted policy on wastewater treatment at the level of the Greater Paris territory
65. Better management of rainwater in close collaboration with partners in the territory
66. Anticipate the effects of urban development and population growth in the Ile-de-France region
67. Improve the management of non-domestic wastewater
68. Improve the understanding of environmental conditions (soil, subsoil, groundwater) and the associated risks
69. Promote a single consolidated set of regulations at the territorial level

70. Develop an evaluation of the implementation of selective urine collection in the SIAAP territory
71. Translate the actions of the SIAAP into an environmental footprint
72. Strengthen actions to preserve and improve biodiversity at SIAAP sites
73. Develop a quick method for determining the sanitary quality of the Seine and the Marne
74. Carry out a complete inventory of the sources of olfactory pollution in the networks
75. Develop and implement an Open Data project

Driving forces for progress

EMPLOYEES AND INNOVATION AT THE HEART OF CHANGE

STRENGTHENING safety management

STRENGTHENING and sharing expertise

BOOSTING innovation

76. Affirm the safety leadership of the management
77. Consolidate management by common objectives
78. Improve the monitoring of performance indicators that are as close as possible to the field
79. Clarify roles and responsibilities in terms of health, occupational and industrial safety
80. Further implant a homogeneous approach of REX/PEX in the SIAAP's culture
81. Take better account of safety in the design / modification of facilities
82. Implement common and periodically reviewed monitoring tools to ensure regulatory conformity
83. Improve the short and medium term welcome and support for new hires: assimilation and maintenance of safety procedures
84. Make progress on the question of internal control (auto-control, managerial control, control by a third party)

85. Better disseminate familiarity with the Water Law Regulations concerning the different sites and networks
86. Formalise the maintenance skills management policy
87. Perpetuate the thematic operator networks and improve decision-making
88. Promote the networking of centrifugation skills so as to improve practices
89. Formalise a network of technical experts for thermal processes
90. Consider the sharing of intra-plant and inter-plant skills, in particular for automation engineers
91. Harmonise the organisation of personnel on call and better formalise the associated training
92. Put in place the means to transfer staff temporarily in order to meet operational needs
93. Implement a simulator that mimics control of the Wastewater Treatment System for training employees

94. Be open towards similar public sanitation services
95. Guarantee the deployment and exploitation of tools developed by R&D
96. Coordinate R&D activity and its deployment in relation to the SIAAP 2030 programs concerned
97. Establish a scientific committee that is largely outward-looking
98. Envisage the sale of products and services emanating from innovation within the SIAAP