



- Using innovative ideas, state-of-the-art technologies and cutting-edge applications to meet as many operational needs as possible.
- Enrichment of research archives with scientific material related to new company activities and establishment of electronic access to the aforementioned archives for knowledge sharing purposes.
- Bridging research and entrepreneurship through projects that are implemented by EYDAP in collaboration with young students and scientists from Universities and Technical Universities.

The analysis is carried out for:

- Internal needs of the Company, (Operations Divisions).
- External agencies (Environmental Inspectors, EARTH / Ministry of Environment, Energy and Climate Change and Regional Divisions, acting as reference laboratories).
- Ongoing EYDAP research programs

#### 4. Objectives and planned activities

Preparation and submission of targeted project proposals funded within the framework of EU programs (HORIZON 2020, NSRF etc.).

Involving additional specialized and experienced scientific personnel in R&D procedures so that the company satisfies the requirements of its participation in a wider variety of research and development projects.



**Athens Water Supply & Sewerage Company**

**Research and Development**

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**Research and Development**

Care for the water  Respect for the environment



Athens Water Supply & Sewerage Company



EYDAP TODAY



The Athens Water Supply and Sewerage Company (EYDAP), operating in the greater Attica area, is the largest company in the Greek water and wastewater services industry. EYDAP is responsible for water collection, transfer, treatment and distribution to the consumer’s tap.

Furthermore, the company is also responsible for wastewater collection, transfer and treatment with consistency, reliability and above all, environmental responsibility, achieved by employing state-of-the-art scientific methods and technologies.

EYDAP Research and Development activities

As a modern water and sewerage service provider, EYDAP, should identify the challenges that it is likely to face over the next 10 to 20 years and take action to exploit opportunities - in particular, those presented by new technological possibilities.

One of the key modernization actions is investing (through self-funding and/or public co-financing) in research activities, technological development and innovation.

**The Research and Development Department (R&D)**, established in early 2011, consists of EYDAP’s highly competent scientists who focus on the development and dissemination of know-how and innovation as well as the adoption of an extrovert orientation.

**The aim of the R&D department is applied research enhancement which improves and resolves issues concerning company operation and promotes proposals for:**

- Acquiring new knowledge which can be integrated into corporate productive functions.
- Service quality improvement through new technology utilization e.g. environmental and energy footprint reduction.
- Developing new knowledge which can be integrated into a wide variety of operational procedures.
- Service quality improvement through new technology utilization e.g. environmental and energy footprint reduction.

- Development and provision of new services that benefit consumers.
- Utilization of tools derived from innovative methodologies.
- Operational cost reduction (e.g. through procedure automation).
- Research Center infrastructure development (e.g. modernization and laboratory accreditation).
- Establishment of hard copy and digital research archives with access to the company Intranet that enable scientific knowledge dissemination.

The R&D Department paves the way for a substantial contribution to the company’s research and development needs in order to maintain a high level of expertise and implement innovative ideas and cutting-edge technologies.

Research activities:

- Searching for EU-funded research proposals (HORIZON 2020, NSRF 2014-2020) and internal research projects.
- Participating in the following funded research projects within the framework of the Seventh European Funding Program (FP7):
  - i. DESSIN** project, intended to demonstrate new technologies for the implementation of the Water Framework Directive (60/2000). The Athens pilot plant is one of the five pilot applications implemented in Germany,



Norway, the Netherlands and Spain where innovative technologies for water reuse aimed mainly to irrigation of green urban areas are demonstrated.

**ii. MARSOL** project intended to demonstrate the enrichment of aquifers with treated wastewater and halting of sea water inflow. In particular, four universities, four research institutes, six SMEs, three local authorities and four water-sewerage companies from various European countries are involved in MARSOL.

iii. Participation in the COST project and specifically in the action ES1105 / CYANOCOST based on addressing the algae growth in reservoirs. More than 40 scientific institutions and companies are participating.

iv. Participation in the TRUST program that aims at the development of studies and proposed solutions on optimizing the management of all activities related to the “urban water”. The program involves 30 scientific institutions and companies.

v. Running two self-funded research projects related to the study of alternative water treatment methods and their efficiency improvement.

2. Upgrading the research center’s building infrastructure:

Completion of the building infrastructure renovation necessary for the modernization of the research center in order to transform it into a demonstration center that will operate through ICT

systems. The renovated facilities house, inter alia, the following:

- i. Pilot test building.
- ii. Research project archives building.

3. R&D Laboratories

- The scope of certification has been updated to meet the ISO 17025 standards regarding research center laboratories. This ensures the reliability and validity of results.
- More than 25000 determinations of physico-chemical, microbiological and biological parameters are performed annually in the research center laboratories.

