

ECOS

COMPANY PROFILE

Introduction

ECOS Consulting S.A. is a dynamic consulting firm providing engineering services in the water sector overarching both fresh and sea water.

Drawing on more than six decades of engineering excellence, ECOS Consulting S.A. provides integrated engineering and consulting services in the fields of water infrastructure, port and marine engineering, and environmental management.

With expertise in hydraulic engineering, water resources management, marine and coastal infrastructure, and environmental consultancy, ECOS delivers innovative and sustainable solutions across a wide range of projects.

Combining technical excellence with a multidisciplinary approach, the company supports public authorities, utilities, international organizations and private-sector clients in addressing complex infrastructure and environmental challenges.





History

Founded in 1998 under the leadership of Dr P. Panagopoulos, ECOS Consulting S.A. was created through the merger of two highly respected consulting firms, bringing together complementary expertise in water engineering, infrastructure development and water resources management.

The company's roots date back to 1960, when Gofas & Associates S.A. pioneered the design of major water infrastructure projects in Greece, including dams, water supply systems, irrigation schemes and wastewater treatment facilities. This engineering heritage was further strengthened through the integration of ECOS Consulting Ltd., established in collaboration with Dutch water experts from Delft Hydraulics (now Deltares).

Today, ECOS combines this rich legacy with modern engineering practices to deliver innovative and sustainable solutions in water infrastructure, marine works and environmental management.

Strategic Financial Overview

The firm maintains a robust mean annual turnover of approximately €700,000, with the majority of this revenue stemming from the Greek Public Sector.

Breaking down the revenue streams, approximately 75% of the firm's turnover is generated from infrastructure development services. The remaining 25% is derived from its project management services, highlighting a diversified yet focused approach to its core business activities.



Aim of the Firm

The triangular firm logo refers to the three success elements:

Aspiration of technical excellence;
We spare no effort in achieving the highest standards of technical excellence, with the application of state-of-the-art technologies enhanced by judicious innovation and supported by life-cycle costing of project alternatives. Attention is given to detail, in order to ensure the best possible implementation of the services provided.

Efficiency and effectiveness in the provision of its services;
The company aims to provide its services in the best interest of its Clients; these include cost-efficiency of the services provided and flexibility of scope and content according to the project needs. In providing our services, advice is offered to Clients on environmental, social, financial or temporal implications of alternative policies.

Environmental & social sensitivity;
The success or failure of projects depends on their environmental and social acceptability. Integration in the natural environment constitutes a major challenge of design, with implications in the size, shape and materials used and the operational characteristics planned for.

Also, the design of projects enhances their acceptability and effectiveness by taking into account the local social sensitivities; this is supplemented by a structured dialogue with the project stakeholders where possible.

Member of

ΣΕΓΜ
Hellenic Association of Consulting Firms

efca
European Federation of Engineering Consultancy Associations

FIDIC™
International Federation of Consulting Engineers

Human Resources

ECOS is managed by three shareholding executives:



KATERINA TRIANTAFYLLOU
Civil Engineer-
Environmental Engineer Ph.D.
President & Managing Director



THEODOROS MELACHRIS
Civil Engineer,
Vice-President



TASOS VARVERIS
Chemist &
Environmentalist,
D.E.S.S

The staff of the firm numbers some 15 scientists and engineers, many of them at MSc level, in civil hydraulics-maritime structures, environmental protection, economics. Staff turnover is low as a result of the company's vision vesting with value its personnel.

ECOS' multidisciplinary team is complemented by a network of highly qualified experts and distinguished professionals covering a wide range of technical and scientific disciplines. The company's long-standing collaboration with Professor C. Memos since 2015 has further enhanced its capabilities in port and coastal engineering, while additional specialist support is mobilized whenever required in areas such as geotechnical engineering, electromechanical systems and ecosystems management. This flexible and collaborative approach enables ECOS to successfully address complex project requirements and deliver integrated, high-quality solutions.

Design is supported by state-of-the-art computation, processing and presentation software, e.g. MIKE Hydro Basin, MIKE21, Delft 3D flow. As of 2008, the firm features an electronic library.



Innovation

ECOS has culture of intellectual freedom that promotes judicious innovation in its projects, based on the thoughtful development of state-of-the-art technologies, in order to minimize risk for the Client while improving project utility.



Life-cycle Costing

The firm applies life-cycle costing for the evaluation of viable alternatives in the design process, for the identification of the most suitable solutions. Life-cycle costing includes integration of operation and maintenance costs with investment costs, as well as valuation of the environmental and social costs where applicable.

Environmental Integration

The firm has a policy on environmental integration since 1995: projects are designed for their best possible integration into the natural and built environment. This is accomplished through appropriate project sizing, tuning of operational characteristics and selection of materials.

Aesthetic Design

The aesthetic design of infrastructure is an important element of social appreciation. ECOS places special emphasis on the aesthetic design of its projects, in terms of the relative scale of their elements and the best possible integration into environment.

Constructability and Health & Safety Policy

The firm has a policy on health & safety in place since 2008 by which designs are vetted for constructability, in order to ensure applicability along with health & safety of construction workers.





Business Integrity

ECOS is committed to the highest level of business integrity, with the adoption of the Code of Conduct of the European Federation of Engineering Consultancy Associations (EFCA) and the Hellenic Association of Consulting Firms (HELLASCO).

Quality Management

The provision of the firm's services is Client-driven; services are tuned to the requirements and interests of the Clients. In addition to Clients, particular attention is focused on financing authorities, which determine the conditions for project implementation; also, on stakeholders, which may contribute vital insight for the success of the project This has earned the firm a solid reputation. ECOS has a quality management system in place since 2001 which ensures that:

- Adequate resources are allocated to each project
- All work is fully coordinated in the firm, and
- All work is internally reviewed before submission

Professional Indemnity Insurance

ECOS carries professional indemnity insurance for international projects as per Client requirements.



Infrastructure Development

Services for infrastructure development concern water-related infrastructure and marine works, namely: Dams and related structures; water treatment plants and water supply; sewage collection treatment & disposal; urban drainage, irrigation and drainage; river regulation and flood control; ports, marinas and fishing harbours; coastline protection.

Services offered include:

Design Services

- Masterplan studies
- Feasibility and financial studies
- Preliminary and final design
- Tender documents

Technical Assistance

- Project management (financing, scheduling, permitting)
- Supervision of construction
- Public procurement & PPP project setup

ECOS brings detailed engineering experience to bear in the design of its projects and the preparation of construction tender documents. Its project management and project construction supervision activities has brought in valuable experience in design and tender preparation.

Environmental Management

Environmental management services concern:

Environmental policy, legislation and impact assessment; ecosystem protection and management; water resources and flood risk management; coastal zone management.

Services offered include:

Specialized Studies

- Environmental Impact Assessment
- Strategic Environmental Assessment
- Baseline studies of ecosystems
- Studies for ecosystem protection
- Studies for implementation of environmental legislation
- River Basin Management Plans
- Water quality management plans
- Flood Risk Management Plans
- Coastal zone Management

Plans Technical Assistance

- Policy formulation and implementation
- Project management
- Contract supervision





Research

The firm is open to collaboration in applied research initiatives falling under its area of expertise.

An example is the partnership with two Universities (NTUA & AUTh) and one company (MarineTraffic) in implementing the programme: Decision Support Tool for Navigation Management in Ports, funded by the European Union & the Greek State, 2014-2021.

Clients

ECOS has undertaken consulting projects for a wide range of Greek and International agencies of the public as well as the private sector, the most important of them being:

- The Greek Ministry of Infrastructure and Transportation
- The Greek Ministry of Energy and Environment
- The Greek Ministry of Rural Development and Foods
- The Greek Ministry of Development
- The Greek Ministry of Maritime Affairs & Insular Policy
- Water Development Department - Ministry of Agriculture, Rural Development and Environment of Cyprus
- The Athens Water Supply and Sewerage Company (EYDAP S.A.)
- The Thessaloniki Water Supply and Sewerage Company (EYATH S.A.)
- The Greek Public Electricity Company (DEH S.A.)
- The Greek Public Gas Company (DEPA S.A.)
- The World Health Organization (WHO)
- Hutchison Port Holding, the Hong Kong-based port operators
- EarthTech Inc., the US-based consulting firm for water and the environment



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