Water Supply & Irrigation

- **Environmental Impact Assessment and Special Ecological Assessment (SEA) study for the Anthili & Roditsa Irrigation Networks Upgrade in Fthiotida (2023)**
- **Environmental Study for the Renewal – Extension of the Environmental Terms of the Project "Construction and operation of the Smokovo dam as well as related works in the Prefecture of Karditsa"**
- **Environmental Impact Assessment Study for the project of Iasmos dam in the prefecture of Rodopi.**
- **Environmental Impact Assessment study for the project "Design of works for the transportation and distribution of water from Nestos River for the irrigation of the Xanthi's plain in aim to the restoration of the aquifers of the region – WFD 60/2000/EE.** The study was prepared for the Ministry of the rural development and food for the environmental permitting of the construction and the operation of all the necessary works for the transportation and the distribution of irrigation water to the plain of Xanthi from Nestos River. The total irrigated area is about 30,000 ha and today for the irrigation needs the ground waters are overexploited. The main issues of the study were the estimation of the impacts in the surface and underground water of the area and the definition of the adequate minimum environmental flow in the river's Nestos Delta which is a Ramsar's Convention protected area.
- **Environmental study for the construction of the irrigation network Feres- Monastiraki and the main irrigation canal in Evros Region (North-eastern Greece).** The project includes the construction of an irrigation network in an area of about 4,000 ha and the improvement of the flow capacity of the main distribution canal supplied from the Evros River. The area is close to the Evros' Delta which is protected according to the Ramsar convention. The study was prepared for the Regional Authority of East Makedonia and Trace for the environmental permitting of the planed project. The main issues of the study was the estimation of the impacts in the protected area due to the agricultural activities and the formulation of the necessary mitigation measures.
- **Environmental Impact Assessment Study for the project "Sensible use of reservoirs in Partheni Leros island, Platy Kos island and Vathy Kalymnos island,** for the Ministry of Agriculture. The project involves the construction of necessary facilities for the transportation of water from the above reservoirs for irrigation and water supply purposes. In the frame of the Environmental Impact Assessment the effects on natural and man-made environment from the construction and function of works were examined.
- **Environmental Impact Assessment study for the irrigation works in Galatas of the prefecture of Aitoloakarnanias.** The project involved the construction of irrigation, drainage and agrarian road network in an area of 17,600 acres. The study focused on the extraction of water from the adjacent Evinos river for the irrigation of cultivated land, the impacts on the ecosystem of Evinos which is protected by the Ramsar convention and the pollution of the surface and ground water from the use of fertilisers and pesticides.
- **Environmental Impact Assessment study of the development of the Margaritio area in Thesprotia,** for the Ministry of Agriculture. In this study the impacts on the natural and human environment from the drainage and irrigation networks in the Margaritio plain (13,500 acres) were assessed. Special provisions were made for the preservation of the adjacent Kalodikio wetland from the exploitation of the karstic groundwater for irrigation.

- **Environmental Impact Assessment study for the expansion of the existing irrigation network in Peplo-Feres in the Prefecture of Evros** (as consultants and coordinators of the study team in association with Epsilon Ltd). The project involved the irrigation of: (i) a 7,000 acres area in Peplo with an underground irrigation network and (ii) a 14,000 acres area in Feres with an open channel irrigation network. The drainage networks and the agrarian road networks in Peplo and Feres have already been constructed and have been used for years.
- **Technical Assistance to the Ministry of Environment, Physical Planning and Public Works for the Assessment of Environmental Impacts on the wetland of Alfios river in Peloponnesus from the existing diversion dam of Floka and the rehabilitation works.** The study focused on measures for the restoration of the environmental integrity of the river and the general upgrading of the wetland.
- **Environmental Impact Assessment Study for the existent hydroelectric stations in the Aliakmonas river** for Public Power Corporation S.A. It concerns in the EIA of works AI classification. It is an examination of the impacts by the function of the existent hydroelectric station of the Public Power Corporation S.A. on the total of the Aliakmonas river basin and in particular, by the Polifito HHS, Sfikia HHS and Asomata HHS in the Aliakmonas river, by the Agra HHS, Edessaios HHS, Bermio HHS in the subbasin of Almopaios river and the Makrihori HHS. The study, besides the examination of the impacts upon the natural and artificial environment, according the valid prescriptions includes a special analysis of the cumulative impacts by all the works beyond them and in particular in the valley of Thessaloniki and the estuary of Aliakmonas river, taking into account the other forms of use as well.
- **Environmental Impact Assessment study and restoration measures for the Hybrid hydroelectric plant in Ikaria island** for the Direction of Development of hydroelectric works of Public Power Corporation S.A. The object of the study concerns in the examination of the impacts on the natural and artificial environment by the original exploitation work of two renewable sources in the island – hydraulic and aeolian.
- **Environmental Impact Assessment study and restoration measures for Sagiada Hydropower plant at Kalamas River,** for Public Electricity Company. The study focused on impacts on the river´s fish and specified design parameters for the construction and operation of fish passes.
- **Environmental Impact Assessment Study for the project Psahna Dam in the Evia prefecture** for the Ministry of Agriculture. It concerns the Preliminary Environmental Impact Assessment Study and the Environmental Impact Assessment Study of works of AI classification. It is about the construction of an earth dam 40m high and of net capacity 6.5 x 10^6 m^3 with the goal to cover the irrigation needs of the valley of Psahna.
- **Environmental Impact Assessment for the construction and operation of artificial pond in Grizata, Kefalonia island,** for the Ministry of Agriculture. The project involves an artificial pond of a capacity up to 600,000 m^3 and two small deviation dams intended to serve irrigational needs and potentially water supply of the area. In the frame of the Environmental Impact Assessment Study the impacts of the project on both natural and man-made environment were evaluated. Special emphasis was put on the investigation of the results of intensive agriculture.
- **Environmental Impact Assessment Study for the construction and operation of artificial pond in Erissos, Kefalonia island,** for the Ministry of Agriculture. The project involves an artificial pond with a capacity up to 300,000 m^3 and two small deviation dams intended to serve irrigational needs and potentially water supply of the area. In the frame of the Environmental Impact Assessment Study the effects of the project on both natural and man-made environment were evaluated. Special emphasis

was put on the investigation of the effects from the intensification of the cultivations and the effects on the vultures nested in the area.

- **Environmental Impact Assessment Study for the complementary water supply system of the city of Ioannina and the recharge of Lake Pamvotis,** for the Greek Ministry of Environment, Physical Planning and Public Works. The study focused on (i) the effects on available water resources of the Arachthos river and the Ioannina plain and (ii) the effects on the temperature and water quality of the Pamvotis lake, from the water transfer.
- **Environmental Impact Assessment study of the construction and operation of Klinon, Tropaiouhou and Idrousa dams in Florina,** in co-operation with consultants Hydrosystems Ltd., OTME Ltd. and the Hydretme Partnership, for the Ministry of the Environment, Physical Planning and Public Works. The project involved the construction of three large dams providing 54 million m^3 of water per year for the irrigation of the Florina plain. The study focused on the assessment of impacts from each dam separately, followed by an overall assessment of the impacts from the combined operation of the dams in the greater Florina plain.
- **Environmental Impact Assessment study of the Steno dam, on Serifos island,** in association with consulting firm Hydrosystems ltd, for the Ministry of Agriculture. The project involved the construction of a small dam across Steno stream and the creation of a reservoir with capacity 700,000 m^3 that will be used for the irrigation and water supply of the greater area.
- **Environmental Impact Assessment study of the Partheni dam, on Leros island,** for the Ministry of Agriculture. The project involved the construction of an earthen dam 21 m high, with reservoir capacity 1,100,000 m^3 for the water supply of the island. Key issues in the study included the impacts on natural habitats in the area from the creation of the reservoir and the decrease in sediment yield of the stream in question.
- **Environmental Impact Assessment study of the Mia dam on Kos Island** for the Ministry of Agriculture. The project involved the construction of a small dam at Mia creek, 22 m high, with reservoir capacity 1,205,000 m^3 for the water supply and irrigation of the area of Kardamaina.
- **Environmental Impact Assessment study of the Livadi dam on Patmos Island** for the Ministry of Agriculture. The project involved the construction of a small dam 25.5 m high, with reservoir capacity 455,000 m^3 for the water supply of the island.
- **Environmental Impact Assessment study for the construction and operation of an irrigation pond on Tilos island** for the Ministry of Agriculture.
- **Environmental Impact Assessment study for the Derion dam in northern Greece near the border with Turkey,** for the Greek Ministry of the Environment, Physical Planning and Public Works. The study focused on the impacts of the dam construction on the social structure of the area and the effects on the downstream ecosystem and particularly on the delta wetlands.
- **Environmental Impact Assessment study of the Evinos dam & diversion tunnel for the water supply of Athens,** for the Greek Ministry of the Environment, Physical Planning and Public Works. The study focused on water resource problems of downstream areas, considering the interactions of river flow with the karstic groundwater system, on the effects of the reduced flow on the delta ecosystem, on water quality aspects of the reservoir and on effects of the river segmentation on aquatic life.