

TEKEM SA

**Mechanical, Electrical and Infrastructure
Consulting Engineers**



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Organisation and Experience of the Firm

COMPANY PROFILE

TEKEM Ltd, was founded in **1966** by **Elias Cavoulacos** and **Nikolas Cavoulacos**, both Mechanical and Electrical Engineers, in continuation of their private practices, that had been in operation since 1958. In April 2007 the firm was converted into a share capital company, **TEKEM SA**.

The Company specialises in the provision of multi-disciplinary planning, design and supervision services in the fields of mechanical and electrical engineering, building services, energy and environmental management, fire protection systems, infrastructure, electronics, industrial installations, water and wastewater management, fuel transmission systems, power generation etc.

Clients of the firm are various government departments, public and private organisations and foundations, general contractors, developers, entrepreneurs and individuals.

The firm has undertaken the design and/or supervision and/or management of a large variety of projects either as main consultant or in joint ventures with other consulting companies or as subcontractor to other companies, mainly in Greece but also in various countries in Europe, Middle East and Africa.

The company's team of engineers, supported by qualified technical and administrative personnel, have been working together for many years integrating, thus, into an experienced, well co-ordinated and efficient engineering group.

FIELDS OF ACTIVITY

Electrical, mechanical and infrastructure services:

- Residential and housing projects
- Hospitals and medical centres
- Industrial projects
- Educational buildings (Universities, schools, technical and vocational colleges, libraries etc.)
- Athletic facilities as stadiums, gymnasiums, swimming pool complexes etc.
- Major development projects (Industrial areas, tourist resorts etc.)
- Transportation complexes (Airports, bus terminals etc.)
- Hotels and tourists facilities
- Parking and garages
- Commercial buildings as office buildings, department stores, shopping centres etc.
- Radio and TV. studios
- Theatres, concert halls, cinemas and congress centres
- Research centres and Laboratories
- Computer centres
- Power and telecommunications distribution systems for urban and rural development projects
- Combined cycle power stations
- Multi stage flushing (MSF) seawater desalination plants
- Marine facilities (harbours, small craft marinas etc.).
- Natural Gas medium pressure transmission systems

Environmental Management

- Urban sewerage & sewage treatment
- Treated effluent disposal/reuse

TEKEM SA

Consulting Engineers

- Landfill design & leachates management
- Landfill gas management
- Stormwater drainage & disposal
- Flood attenuation studies
- Landfill rehabilitation

Energy systems

- Power production, small diesel engine power plants (up to 10MW)
- Small capacity hydroelectric power plants
- HV and MV electric substations (sizes up to 60 MVA)
- HV and MV distribution systems
- Co-generation systems
- Integrated energy systems
- Landfill Gas collection & Utilisation
- Energy studies(Least cost planning, Demand Side Management, Energy Conservation etc.).
- Natural Gas medium pressure transmission systems
- Renewable energy systems

Industrial projects (process design)

- Pharmaceutical industries
- Factories for domestic appliances
- Factories for plastic products
- Large capacity irrigation and water supply pumphouses

Water Supply and Irrigation

- Water supply transmission lines and distribution networks for urban and rural development projects
- Water storage and pumping facilities
- Irrigation schemes for large size Agricultural developments
- Desalination systems

RESOURCES

Over 30 qualified engineers, technical assistants, draftsmen and administrators form the basic human potential of the firm. Added to these is a number of external scientific, engineering and technical associates in regular collaboration with the firm, specialised in specific fields and applications. All senior staff is conversant with foreign languages (English, French, German, Russian and Arabic) and has participated in projects both in Greece and overseas.

The Company's premises consist of 800 sq.m total floor area incorporating reception, office spaces, 2 Nos. conference rooms, 2 Nos. drafting pools, printing & production room, storage and archive areas etc. An integrated local area computer network, supporting over 30 work stations, along with a variety of peripherals (A0-size large format printers, laser and inkjet printers, scanners etc.) and a library of engineering software, provide high computer aided design, drafting and printing efficiency.

Reference Projects

PROJECTS EXECUTED

In over 50 years the company has been actively involved in the engineering design and/or supervision of a large number of projects. The most important of these projects are briefly presented hereunder in the following sequence:

- Office Buildings
- Commercial, Entertainment and Cultural Buildings
- Restoration, Rehabilitation and Renovation
- Hospital and Healthcare Buildings
- Industrial Buildings
- Educational Facilities
- Sport's Facilities
- Hotels and Tourist Resorts
- Private Houses and Residential Buildings
- Special Projects
- Infrastructure
- Transportation
- Energy Systems



Office Buildings

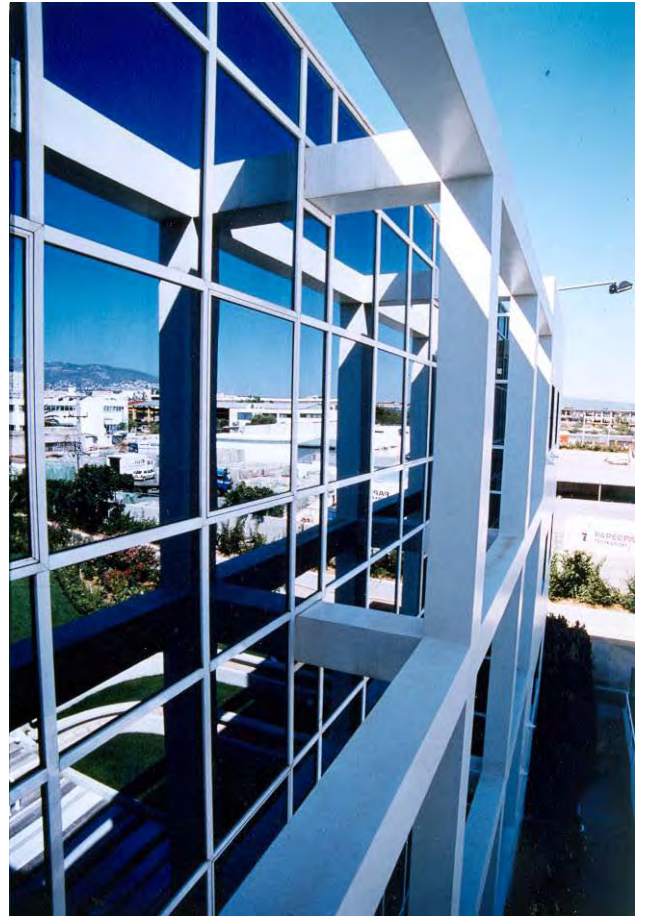
| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|--|--|
| * ATHENS TOWER OFFICE BUILDING, ATHENS, GREECE (1972) Design of all electrical and mechanical installations of the 120.000 cu.m. building complex | 12.000.000 |
| * OFFICE BUILDING ON ERMOU & NIKIS STR., ATHENS, GREECE (1973) Design of the air conditioning installation | 250.000 |
| * KITRIKI BUILDING OF THE COMMERCIAL BANK OF GREECE, THESSALONIKI, GREECE (1973) Design of all electrical and mechanical installations | 900.000 |
| * T.S.A.Y. OFFICE BUILDING, ATHENS, GREECE (1974) Design of all electrical and mechanical installations | 1.500.000 |
| * ILISSOS SA OFFICE BUILDING, ATHENS, GREECE (1974) Design of all electrical and mechanical installations | 300.000 |
| * ERIOMAR SA OFFICE BUILDING, ATHENS, GREECE (1974) Design and construction supervision of all electrical and mechanical installations | 400.000 |
| * PUBLIC POWER CORP. OFFICE BUILDING, THESSALONIKI, GREECE (1974) Design of all electrical and mechanical installations | 850.000 |
| * M.A. KARAGEORGIS BUILDING, PIRAEUS, GREECE (1979) Design and construction management of all electrical and mechanical installation | 3.500.000 |
| * BLOKAT SA OFFICE BUILDING, ATHENS, GREECE (1975) Design and construction supervision of all electrical and mechanical installations | 700.000 |
| * FOREUS SA KOLONAKI OFFICE BUILDING, ATHENS, GREECE (1976) Design and construction supervision of all electrical and mechanical installations | 300.000 |
| * FOREUS SA MAVROKORDATOU OFFICE BUILDING, ATHENS, GREECE (1976) Design and construction supervision of all electrical and mechanical services | 450.000 |

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| * KING GEORGE & NOTARA STR. OFFICE BUILDING, PIRAEUS, GREECE (1977) Design of all electrical and mechanical installations | 400.000 |
| * 107 KIFISSIAS STR. OFFICE BUILDING, ATHENS, GREECE (1978) Design of all electrical and mechanical installations | 450.000 |
| * CIBA-GEIGY SA OFFICE BUILDING, ANTHOUSA, ATHENS, GREECE (1980) Design of all electrical and mechanical installations | 400.000 |
| * O.T.E. (ORGANISATION FOR TELECOMMUNICATIONS) ADMINISTRATION BUILDING, MAROUSSI, ATHENS, GREECE (1980) Design and construction supervision of all electrical and mechanical installations (in co-operation with another consultant) | 25.000.000 |
| * COMMERCIAL AND OFFICE BUILDING, ATHENS, GREECE (1982) Design and construction management of all electrical and mechanical installations | 900.000 |
| * KIFISSIAS AND PANORMOU STR. OFFICE BUILDING, ATHENS, GREECE (1982) Design and construction supervision of all electrical and mechanical installations | 300.000 |
| * FINA BLDG, 377 SYNGROU AVE, ATHENS, GREECE (1979) Design and construction supervision of all electrical and mechanical installations | 900.000 |
| * DENCO BLDG, 16 KIFISSIAS AVE, ATHENS, GREEC (1980) Design and construction supervision of all electrical and mechanical installations | 1.200.000 |
| * OLYMPIC AIRWAYS ADMINISTRATION, ATHENS AIRPORT, GREECE (1980) Design of HVAC systems for the upper floor of domestic arrivals building | 400.000 |
| * MINISTRY OF INTERIOR, KINGDOM OF SAUDI ARABIA (1982) Design and construction supervision of all electrical and mechanical installations of the Telecommunications Dept., Riyadh | 4.800.000 |
| * MINISTRY OF HOUSING, BAHRAIN (1983) Design and construction supervision of all electrical and mechanical works for 20 Nos. housing units in the villages of Budaiya and Karanah, Bahrain | 1.325.000 |

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| * CREDIT BANK HEADQUARTERS, ATHENS, GREECE (1984) Design and construction supervision of all electrical and mechanical installations for the prestigious (new headquarters) building at Stadiou str. | 5.000.000 |
| * SIEMENS A.G. OFFICE BLDG, MAROUSSI, ATHENS (1985) Design and construction supervision of all electrical and mechanical installations | 560.000 |
| * BARA VALUES INC. OFFICE BLDG, MAROUSSI, GREECE (1987) Design and construction supervision of all electrical and mechanical installations | 550.000 |
| * EVROKATASKEVI SA SHOWROOMS & CARPARK BLDG, MAROUSSI, ATHENS, GREECE (1989) Design and construction supervision of all electrical and mechanical installations of the 10-storey commercial facility | 1.565.000 |
| * ASTIR SA OFFICE BLDG, PATRAS, GREECE (1990) Design of all electrical and mechanical utilities and services | 980.000 |
| * KORINTHIAKOS RYTHMOS SA, KIFISSIA, GREECE (1996) Design of all electrical and mechanical utilities and services for an office building, with ground floor shops, underground shopping centre, recreational areas and parking | 2.000.000 |
| * GREEK OLYMPIC COMMITTEE BUILDING, MAROUSSI, ATHENS (1996) Design of all electrical and mechanical utilities and services | 4.000.000 |
| * DANE SHIPPING Co., PIRAEUS, GREECE (1996) Design of all electrical and mechanical utilities and services for an office building, with ground floor shops, underground shopping centre, recreational areas and parking | 290.000 |
| * ARCAT SA, ATHENS, GREECE(1994) Design of all electrical and mechanical utilities and services for an office building, with ground floor shops and underground parking | 3.000.000 |
| * CONCAT SA, KIFISSIA, ATHENS, GREECE (1996) Design of all electrical and mechanical utilities and services for the reformation of the office, shops and parking building | 4.000.000 |
| * GLAXO SA, OFFICE BUILDING, KIFISSIAS AV., ATHENS, GREECE (1996) Design of all electrical and mechanical utilities and services | 1.300.000 |

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| * NOVARTIS SA, METAMORFOSIS, ATHENS, GREECE (1997) Design of all electrical and mechanical utilities and services | 1.200.000 |
| * PUBLIC POWER CORPORATION, OFFICE BUILDING, 3 rd September Str, ATHENS, GREECE (1997) Design of all electrical and mechanical utilities and services | 1.800.000 |
| * CENTRAL ADMINISTRATION BUILDING OF THE MINISTRY OF MERCHANT NAVY, PIRAEUS, GREECE, (2005) Design of all electrical and mechanical utilities and services for a 45.000m ² office building and a communications tower | ~9.000.000 |
| * CONVERSION AND RENOVATION OF THE ATHENS ARCHAEOLOGICAL SOCIETY HEADQUARTERS, ATHENS Design of all electrical and mechanical utilities and services | 386.000 |
| * AL FARDAN TWIN TOWERS OFFICE APARTMENTS AND SHOPPING CENTER COMPLEX in QATAR (2003-2007) 100.000m ² . Design of all electrical and mechanical services and utilities. | ~30.000.000 |
| * NEW ATHENS HEADQUARTERS BUILDING FOR ROBERT BOSCH SA, (2009) (Offices, Stores, Workshops) Design and supervision of all electrical and mechanical Installations | ~4.500.000 |
| * RECONSTRUCTION OF BENROUBI BUILDING, ATHENS, MAROUSI, (2009) Design and supervision of all electrical and mechanical Installations | ~3.600.000 |
| * DELOITTE HEADQUARTERS – MAROUSSI PLAZA ATHENS (2009) Design and supervision of all electrical and mechanical Installations | 1.800.000 |
| * MYTILINEOS GROUP HEADQUARTERS, ATHENS (2011) Design of all electrical and mechanical utilities and services | 1.300.000 |

NOVARTIS OFFICE BUILDING, ATHENS



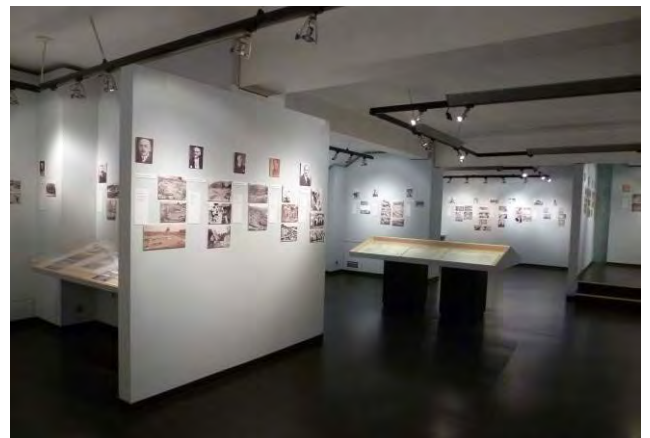
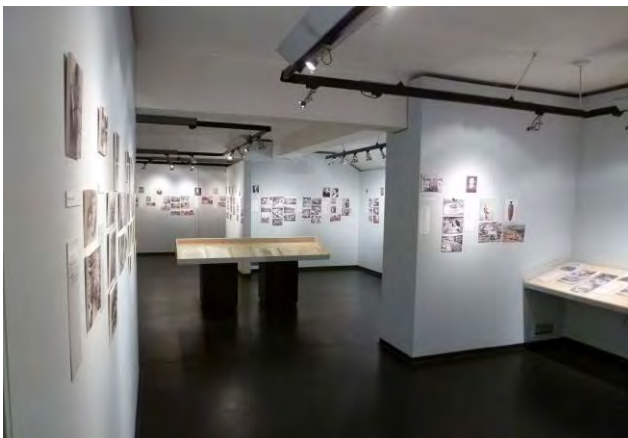
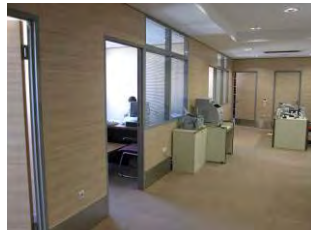
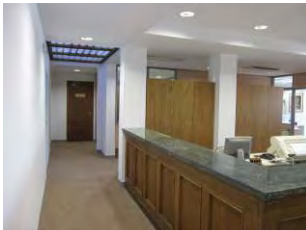
Client: Novartis Hellas A.E.B.E.
Project Value: \$ 1.200.000
Description: Complete design and supervision of the MEP installations of the Greek headquarters of Novartis, including office areas, 242-seat auditorium, two seminar halls, restaurant and landscaping.
Total floor area: 5508 m²
Services period: 01/1997 - 12/1998

SIEMENS OFFICE BUILDING, ATHENS



Client: Siemens S.A.
Project Value: \$ 560.000 & \$ 2.160.000
Description: Complete design and supervision of the MEP installations of the Greek headquarters of Siemens including office areas, conference rooms, meeting areas, landscaping and, at a later date, a high security I.T. Centre. (i/c)
Total building area: 10565 m²
Services period: 05/1984 - 04/1986 & 10/1991 - 06/1992

CONVERSION AND RENOVATION OF THE ATHENS ARCHAEOLOGICAL SOCIETY HEADQUARTERS, ATHENS



Client: The Athens Archaeological Society
Project Value: \$ 386.000 (executed)
Description: Complete design and supervision of the MEP installations for the partial conversion of the Society's headquarters including the remodelling of office spaces at several levels, a new exhibition space, the renovation of the main hall and proposal for the extension of the library.
Total building area: 2370 m²
Services period: 10/2005 - 03/2006 & 09/2009 - 03/2010

ATHENS TOWER, ATHENS



Client: ALVERTIS-DIMOPOULOS SA
Project Value: \$ 12.000.000
Description: Complete MEP services design and supervision for the offices and commercial complex. The twin tower complex is on Athens landmark building and was the tallest building in the Balkans at the time of its construction.
Total building area: 120.000m²
Services period: 1971-1973

OTE (National Telecommunications Organisation) CENTRAL ADMINISTRATION BUILDING, MAROUSSI, ATHENS



Client: OTE (Greek National Telecommunications Organisation) SA
Project Value: \$ 25.000.000
Description: Complete MEP services design and construction supervision for the main administration building of OTE. One of the largest buildings in Greece. Total building volume: 423.000m³
Services period: 1980 & 2006 (refurbishment of floors)

ALPHA BANK HEADQUARTERS BUILDING, ATHENS



Client: ALPHA BANK SA (former CREDIT BANK SA)
Project Value: \$ 5.000.000
Description: Complete MEP services design and construction supervision for the main administration and headquarters building of the largest private bank in Greece.
Services period: 1984

GREEK OLYMPIC COMMITTEE BUILDING, MAROUSSI, ATHENS



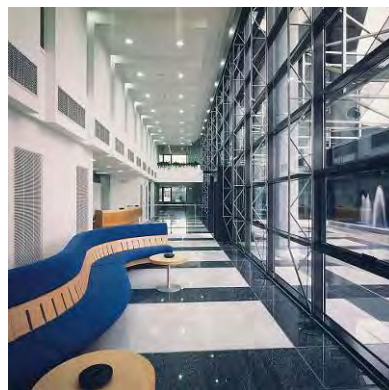
Client: G.ALEXIOU SA – General Contractors
Project Value: \$ 4.000.000 (MEP services - at construction period)
Description: Complete MEP services design and supervision for the administration building of the Hellenic Olympic Committee.
Total building area: 3.300m²
Services period: 1994

CONCAT BUILDING, MAROUSSI, ATHENS



Client: CONCAT SA
Project Value: \$ 4.000.000
Description: Complete MEP services detail design for the main administration building of the Vardinogiannis Group.
Services period: 1996

GLAXO-WELCOME HEADQUARTERS, ATHENS



Client: GLAXO-WELCOME SA
Project Value: \$ 1.300.000
Description: Complete MEP services detail design for the Athens headquarters building of GLAXO-WELCOME.
Services period: 1996

BENRUBI GROUP BUILDING, MAROUSSI, ATHENS



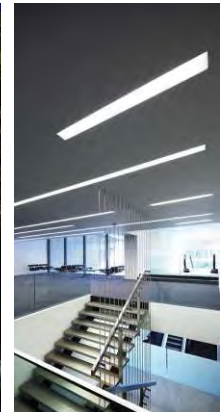
Client: Benrubi Group SA
Project Value: \$ 3.600.000
Description: Complete MEP services design and supervision for the offices and commercial building of
Total building area: 11.630m²
Services period: 2009

MYTILINEOS GROUP HEADQUARTERS, ATHENS



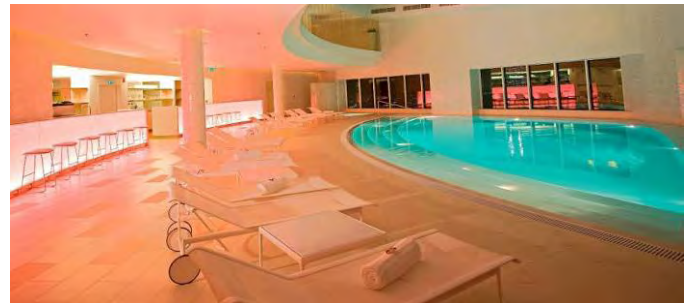
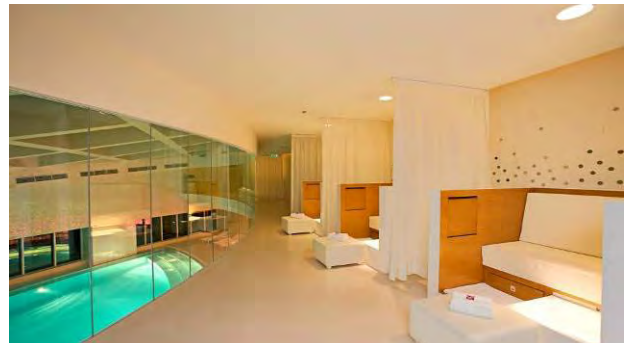
Client: AMIOCHA REAL ESTATE INVESTMENTS SA
Project Value: \$ 1.300.000
Description: MEP services detail design for the refurbishment of the former SIEMENS building in Athens to become the new headquarters for the MYTILINEOS GROUP.
Total building area: 8.500m²
Services period: 2010 - 2011

DELOITTE HEADQUARTERS – MAROUSSI PLAZA, ATHENS

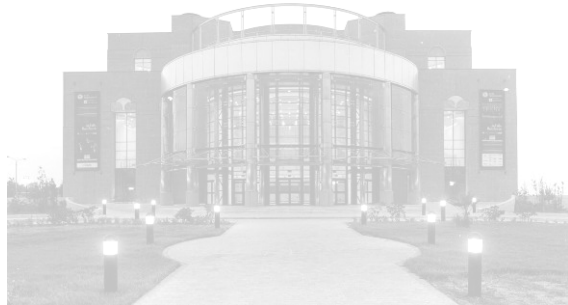


Client: MAROUSSI PLAZA SA - DELOITTE SA
Project Value: \$ 1.800.000
Description: Complete MEP services detail design and supervision for the refurbishment of an existing commercial and cinemas building to the new Athens Head Office for DELOITTE SA
Total building area: 7.500m²
Services period: 2009 - 2010

AL FARDAN TOWERS, DOHA



Client: CONSTRUCTION DEVELOPMENT COMPANY (CDC) LLC
Project Value: ~ \$ 30.000.000
Description: MEP services detail design for the twin, offices (30-storey) and residential (40-storeys), towers complex, in Doha, Qatar. It includes a top floor health club and spa, a ground level mall and car showroom and two underground levels car park.
Total building area: approx. 100.000m²
Services period: 2004 – 2007



***Commercial, Entertainment and Cultural
Buildings***

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|--|--|
| * NEW CONFERENCE BUILDING FOR PANTIOS UNIVERSITY OF POLITICAL AND ECONOMIC SCIENCES, ATHENS GREECE (1967) Design and construction supervision of all electrical and mechanical installations | 3.500.000 |
| * NEW OPERA HOUSE, ATHENS, GREECE (1972) Design of all electrical and mechanical installations and stage facilities (Project not realised) | 20.000.000 |
| * CONCERT HALL, ATHENS, GREECE (1990) Detailed design and Construction Supervision of all electrical and mechanical installations | 10.000.000 |
| * VILLAGE ROADSHOW CINEMA COMPLEX, MAROUSSI, ATHENS, GREECE (1996) Design of all electrical and mechanical services and utilities for the 10 cinemas and 600 cars underground parking complex | 3.000.000 |
| * CONCERT HALL, THESSALONIKI, GREECE (1997) Detailed design of all electrical and mechanical installations | 9.000.000 |
| * VILLAGE ROADSHOW CINEMA COMPLEX, RENTIS, ATHENS, GREECE (1999) Design of all electrical and mechanical services and utilities for the 20 cinemas, shopping centre and 1000 cars underground parking complex | 6.600.000 |
| * MULTIFUNCTIONAL BUILDING "ARENA", ATHENS, GREECE (2004) Design of all electrical and mechanical services and utilities for a building incorporating two theatre halls for 4500seats, restaurants, a hotel, spa and underground parking area | ~8.000.000 |
| * MEDIA VILLAGE COMPLEX, ATHENS, GREECE (2003-2005) Design & supervision of E&M and infrastructure installations for the Commercial Entertainment complex "THE MALL" including a 2300 space underground car park, total area of 180.000m ² | ~60.000.000 |
| * VILLAGE ROADSHOW CINEMA COMPLEX, « THE MALL », ATHENS, GREECE (2005) Design of all electrical and mechanical services and utilities for the 15 cinemas inside the shopping centre "The Mall". | ~6.000.000 |
| * VILLAGE ROADSHOW CINEMA COMPLEX, THESSALONIKI, GREECE (2005) Design of all electrical and mechanical services and utilities for the 10 cinemas inside the shopping centre "Mediterranean Cosmos" in Pylea. | ~4.500.000 |

- * MICHAEL CACOYANNIS FOUNDATION
- NEW CULTURAL CENTRE, ATHENS (2005-2010)
Complete design and supervision of all electrical
and mechanical installations **~ 3.000.000**

- *MULTIFUNCTIONAL BUILDING “ARENA”,
ATHENS, GREECE (2004)
Design of all electrical and mechanical services and
utilities for a building incorporating two theatre halls
for 4500seats, restaurants, a hotel, spa and
underground parking area **~8.000.000**

- *MEDIA VILLAGE COMPLEX, ATHENS, GREECE (2003-todate)
Design & supervision of E&M and infrastructure installations
for the Commercial Entertainment complex “THE MALL” including
a 2300 space underground car park, total area of 180.000m² **~60.000.000**

- * VILLAGE ROADSHOW CINEMA COMPLEX, « THE MALL »,
ATHENS, GREECE (2005)
Design of all electrical and mechanical services and utilities
for the 15 cinemas inside the shopping centre “The Mall”. **~6.000.000**

- * VILLAGE ROADSHOW CINEMA COMPLEX, THESSALONIKI,
GREECE (2005)
Design of all electrical and mechanical services and utilities
for the 10 cinemas inside the shopping centre
“Mediterranean Cosmos” in Pylea. **~4.500.000**

- * RECONSTRUCTION OF THE PALLAS THEATER BUILDING,
ATHENS (Three Theaters) (2007)
Design of all electrical installations.

- * PRELIMINARY DESIGN OF VOTANIKOS SHOPPING
CENTER, ATHENS (2008)
Design of all electromechanical installations. **~25.000.000**

- * RECEPTION BUILDINGS, AUDITORIUM etc of the
ARCHEOLOGICAL SITE OF ANCIENT CARTHAGE
TUNISIA (2009)

- * ATHENS-COLLEGE THEATRE AND AUDITORIUM IN
PSYCHICON, ATHENS, GREECE (1982)
Design and construction supervision of all electrical and
mechanical installations and stage facilities **600.000**

- * RECONSTRUCTION OF THE PALLAS THEATER BUILDING,
ATHENS (Three Theaters) (2007)
Complete MEP design (in cooperation). **8.000.000**

**VILLAGE ENTERTAINMENT PARK – SHOPPING & ENTERTAINMENT CENTRE,
ATHENS**



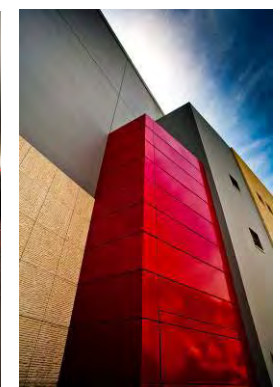
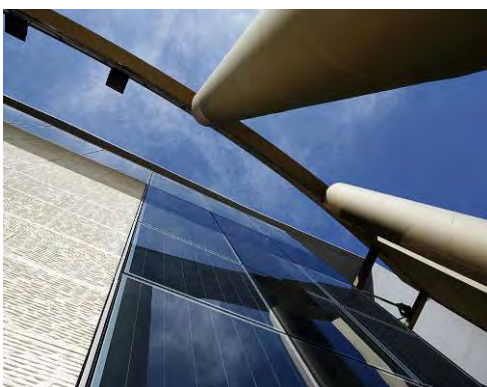
Client: TRIVILLAGE SA
Project Value: \$ 6.600.000
Description: MEP and infrastructure services detail design and supervision for the shopping and entertainment complex in Athens. It includes 20 cinemas, shops and a 1000 spaces underground car park.
Total building area: 80.000m²
Services period: 1999

THE MALL ATHENS – SHOPPING & ENTERTAINMENT CENTRE, ATHENS



Client: LAMDA DEVELOPMENT SA
Project Value: \$ 60.000.000
Description: MEP and infrastructure services detail design for the largest shopping and entertainment complex in Athens. It includes a 2300 spaces underground car park.
Total building area: 180.000m²
Services period: 2003 - 2005

MICHAEL CACOYANNIS FOUNDATION – NEW CULTURAL CENTRE, ATHENS



Client: Michael Cacoyannis Foundation
Project Value: ~ \$3.000.000
Description: Complete design, supervision of the MEP services for the New Cultural Centre including 2 theatres, 2 cinemas, exhibition areas, restaurants, foyers, offices, supporting facilities and car-parking
Total building area: 7150 m²
Services period: 05/2005 - 08/2006 & 03/2007 - 03/2010

STUDIES ADJOINING THE ARCHAEOLOGICAL SITES OF CARTHAGE, CARTHAGE – TUNISIA



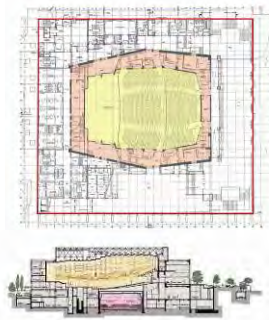
Client: Design SA (contract with Tunisian Ministry of Culture, funded by the International Reconstruction Bank)

Project Value: \$ n.a.

Description: Complete design of the MEP installations for a 500-seat multi-purpose auditorium, buildings for the reception of visitors and site development of the areas surrounding the archaeological sites of Byrsa and Malga in Carthage Tunisia.
Total building area: 4500 m², total site intervention area 190.000 m²

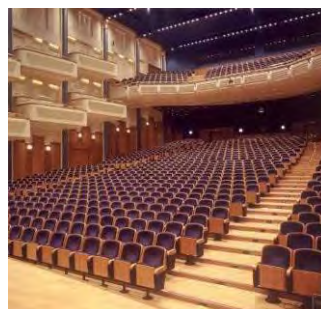
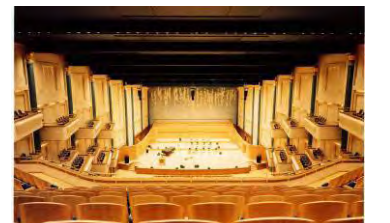
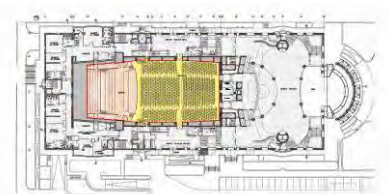
Services period: 03/2003 - 06/2005 & 05/2008 - 07/2009

ATHENS CONCERT HALL, ATHENS



Client: GEK SA – Psychiki Ellados SA / Athens Concert Hall Foundation
Project Value: \$ 10.000.000
Description: Design-Build project, final design, construction drawings and of all MEP services for including two concert halls (2000-seat for symphonic music and opera & 500- seat for chamber music) with backstage facilities, recording studios, conference centre, library, museum, exhibition spaces, foyers, administration, etc. (i/c)
Total building area: 28840 m²
Services period: 03/1987 - 10/1991

THESSALONIKI CONCERT HALL, THESSALONIKI



Client: GEK SA – Themeliodomi SA / Thessaloniki Concert Hall Foundation
Project Value: \$ 9.000.000
Description: Design-build project, final design, construction drawings and supervision for all MEP services including a 1550-seat main stage (for symphonic music and theatres) with backstage facilities and rehearsing areas, foyers etc. (in cooperation)
Total building area: 26600 m²
Services period: 11/1996 - 01/2000

ATHENS COLLEGE THEATRE, ATHENS



Client: ATHENS COLLEGE – Hellenic American Educational Fund
Project Value: \$ 600.000
Description: Complete MEP services design and supervision for the 830 seats theatre.
Total capacity: 830 seats, Stage 120m², Exhibition area: 500m²
Services period: 1982

VILLAGE ROADSHOW CINEMAS COMPLEX, ATHENS



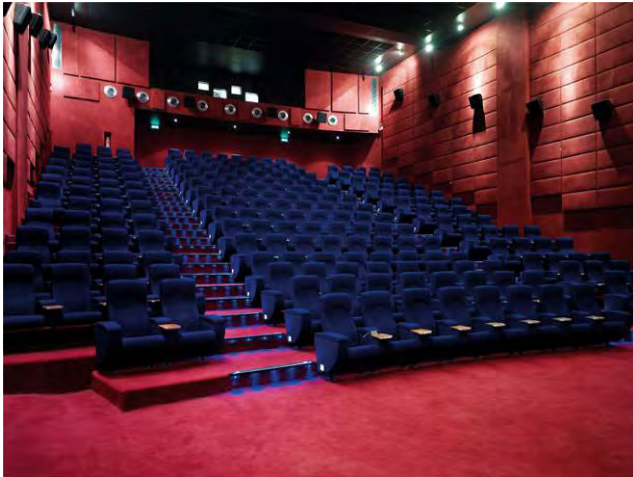
Client: VILLAGE ROADSHOW HELLAS
Project Value: \$ 3.000.000
Description: Complete MEP services design for the 10 cinemas and 600 spaces underground car park.
Services period: 1996

“ATHINON ARENA” MULTIFUNCTIONAL CULTURAL BUILDING, ATHENS



Client: ATHINON ARENA
Project Value: ~ \$ 8.000.000
Description: Complete MEP services design for a building incorporating two theatre halls, total 4.500 seats, restaurants, kitchen facilities, etc .
Services period: 2004

VILLAGE ROADSHOW CINEMAS COMPLEXES IN ATHENS & THESSALONIKI



Client: VILLAGE ROADSHOW HELLAS
Project Value: ~ \$ 10.500.000
Description: Complete MEP services design for 2 multiplex cinemas complexes in respective shopping centres in Athens (15 screens) and Thessaloniki (10 screens).
Services period: 2005

PALLAS & MIKRO PALLAS THEATRES, ATHENS



Client: ELLINIKI THEAMATON SA
Description: Complete MEP services detail design for the refurbishment of two landmark theatres in Athens.(in cooperation)
Services period: 2007

THESSALONIKI TECHNOLOGICAL MUSEUM, THESSALONIKI



Client: TELMACO SA – Specialist Lighting & A/V Systems Contractor
Description: MEP services detail design for the theatre, virtual reality simulator and planetarium buildings of the Technological Museum of Thessaloniki. (in cooperation)
Services period: 2003-2004



Restoration, Rehabilitation and Renovation

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|---|--|
| * "METOCHIKON TAMION STRATOU" COMPLEX, CENTRAL CORE REBUILDING, ATHENS, GREECE (1983) Design of all electrical and mechanical installations, stage facilities etc. (in co-operation with other consultants) | 10.000.000 |
| * RESTORATION OF SHAIKH HAMAD PALACE GUDAIBIYA, BAHREIN (1985) Design & supervision of E&M installations | 1.300.000 |
| * RESTORATION AND REMODELLING OF FORMER MILITARY ACADEMY BUILDINGS INTO LAW COURTS,ATHENS GREECE (1986) Complete design and Supervision of all electrical and mechanical installations (Buildings 8, 12, 13,16) | 5.300.000 |
| * RESTORATION AND REMODELLING OF FORMER MILITARY ACADEMY BUILDINGS INTO CULTURAL CENTRE,ATHENS GREECE (1986) Complete design and Supervision of all electrical and mechanical installations (Building A) | 1.700.000 |
| * ZAPPEION PALACE (RESTORATION AND REMODELING, ATHENS GREECE (1983) Complete design and Supervision of all electrical and mechanical installations | 4.500.000 |
| * RESTORATION OF SHAIKH HAMAD PALACE GUDAIBIYA, BAHRAIN (1985) Complete design and Supervision of all electrical and mechanical installations | 1.300.000 |
| * THERMAE SYLLA SPA & WELLNESS HOTEL, AIDIPSOS, EVIA, GREECE (1983) Complete design and Supervision of all electrical and mechanical installations | 2.600.000 |
| * RECONSTRUCTION OF THE PALLAS THEATER BUILDING, ATHENS (Three Theaters) (2007) Design of all electrical installations. | |

RESTORATION AND REMODELLING OF FORMER MILITARY ACADEMY BUILDINGS INTO LAW COURTS, ATHENS



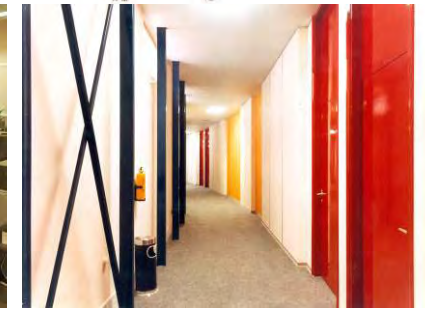
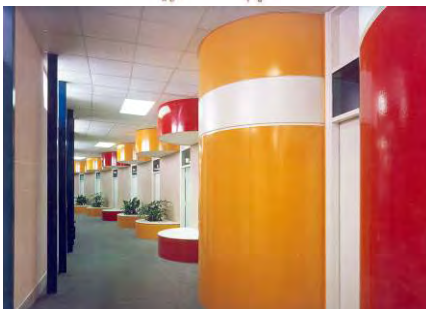
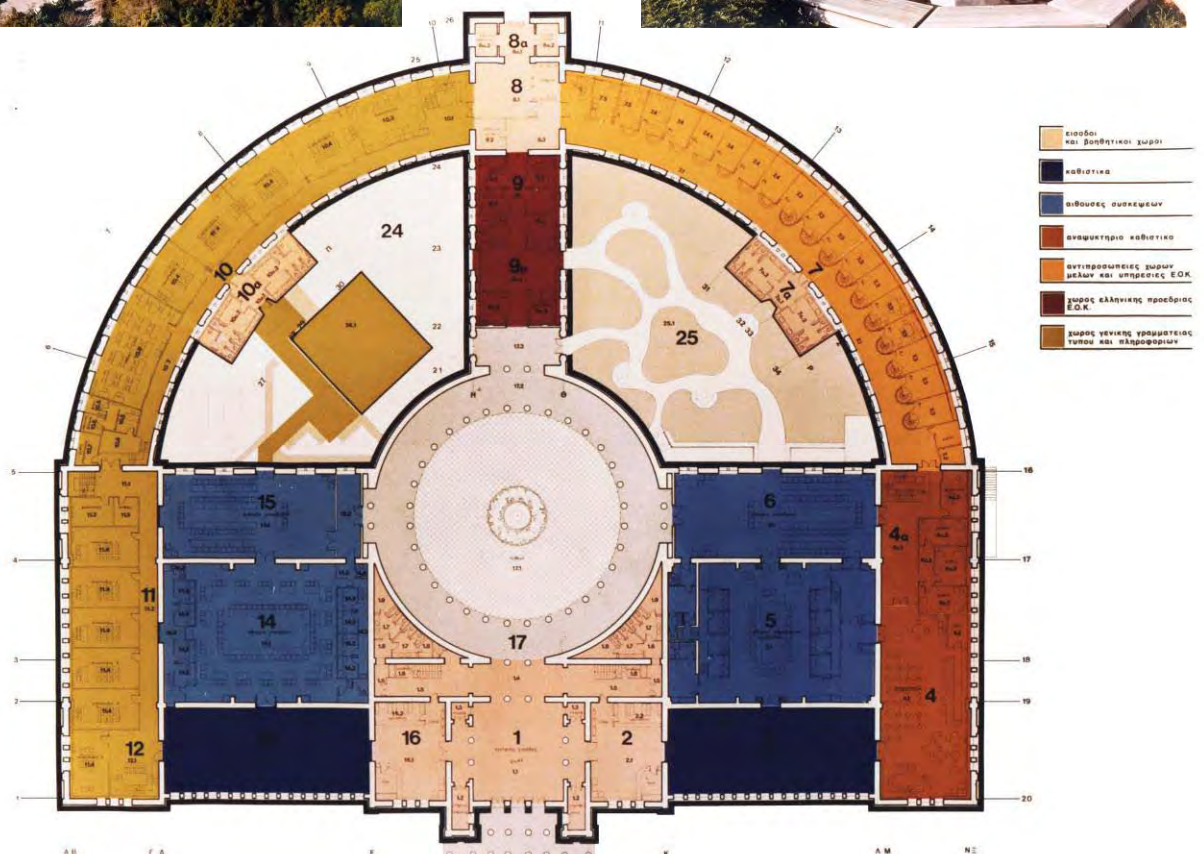
Client: Psychtiki Ellados SA / Ministry of Public Works
Project Value: \$ 5.300.000
Description: Complete design and supervision of MEP services for the design-build project of the remodelling and restoration of the former Military Academy buildings Nos. 8, 10, 12, 13 & 16 (listed buildings) into Law Courts of the First Instance
Total building area: 8550 m²
Services period: 05/1984 - 08/1985 & 01/1985 - 04/1986

RESTORATION AND REMODELLING OF FORMER MILITARY ACADEMY BUILDINGS INTO CULTURAL CENTRE, ATHENS



Client: Psychtiki Ellados SA / Ministry of Public Works
Project Value: \$ 1.700.000
Description: Complete design and supervision of MEP services for the design-build project for the remodelling and restoration of the former Military Academy building A (listed building) into a Cultural Centre
Total building area: 2325 m²
Services period: 10/1985 - 12/1986

ZAPPEION PALACE (RESTORATION AND REMODELLING), ATHENS



Client: Psychtiki Ellados SA / Ministry of Public Works
Description: Complete design and supervision of MEP services for the design-build project for the renovation, restoration and remodelling of Zappeion Palace (listed building) to cover the needs of the Greek Presidency of the EEC (1983) including plenary sessions halls with state-of-the-art press and interpreting provisions
 Total building area: 10500 m²
Services period: 01/1983 - 06/1983

RESTORATION OF SHAIKH HAMAD PALACE, GUDAIBIYA, BAHRAIN



Client: Ministry of Housing
Project Value: \$ 1.300.000 (MEP services - at construction period)
Description: Complete MEP services design and supervision for the restoration and expansion of a ruined 19th century palace in Manama, to transform it into a palace for the Emir as well as a VIP guesthouse. (i/c)
Total Building Area: 7.000m²
Services period: 1985

THERMAE SYLLA SPA & WELLNESS HOTEL, AEDIPSOS, EVIA, GREECE



Client: THERMAE SYLLA HOTEL SA
Project Value: \$ 2.600.000
Description: Complete MEP services design for the restoration and refurbishment of the late 19th century natural thermal springs spa hotel to a modern 5 star spa & wellness centre.
Services period: 1997



Hospital and Healthcare Buildings

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|---|--|
| * LETO MATERNITY HOSPITAL, ATHENS, GREECE (1972) Design and construction supervision of all electrical and mechanical installations | 1.600.000 |
| * OIL INDUSTRIES MEDICAL SOCIETY HOSPITAL, TRIPOLI, LIBYA (1972) Design and construction supervision of all electrical and mechanical installations of a 50 bed hospital | 1.100.000 |
| * RED CROSS HOSPITAL EXTENSION, ATHENS, GREECE (1975) Design and construction supervision of all electrical and mechanical installations of a 180 bed unit | 2.800.000 |
| * ALEXANDRA HOSPITAL, ATHENS, GREECE (1971) Design and construction supervision of various extensions, of the electrical and mechanical installations of the hospital | 1.000.000 |
| * HYGEIA GENERAL HOSPITAL, ATHENS, GREECE (1974) Design and construction supervision of all electrical and mechanical installations of the 320 bed general hospital and diagnostic centre | 12.000.000 |
| * VENIZELION GENERAL HOSPITAL, IRAKLION, GREECE (1974) Preliminary design of all electrical and mechanical installations | 15.000.000 |
| * HERA MATERNITY HOSPITAL, ATHENS, GREECE (1978) Design and construction supervision of all electrical and mechanical installations of the 180 bed hospital | 2.600.000 |
| * PAEDIATRIC CENTRE, CHILDREN HOSPITAL, ATHENS, GREECE (179) Design and construction management of all electrical and mechanical installations of the 280 bed general hospital for children | 3.000.000 |
| * APOLLONION GENERAL HOSPITAL, ATHENS, GREECE (1978) Design and construction supervision of all electrical and mechanical installations of the 120 bed hospital | 1.400.000 |
| * MITERA MATERNITY HOSPITAL, ATHENS, GREECE (1978) Design and construction supervision of all electrical and mechanical installations of the 320 bed hospital | 4.200.000 |
| * VOUVALION GENERAL HOSPITAL - KALYMNOS, GREECE (1980) Design of various extensions of the electrical and mechanical installations of the hospital | 400.000 |

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| * AGHIA SOFIA, CHILDREN HOSPITAL, ATHENS, GREECE (1980) Design and construction supervision of the electrical and mechanical installations of various extensions of the hospital | 10.000.000 |
| * IASO, MATERNITY HOSPITAL, ATHENS, GREECE (1982) Design of all electrical and mechanical installations of the 320 bed hospital | 4.500.000 |
| * AGHIOS ANDREAS, UNIVERSITY, GENERAL HOSPITAL, PATRAS, GREECE (1982) Design of all electrical and mechanical installations of the 700 bed general hospital | 17.000.000 |
| * AGHIA OLGA, GENERAL HOSPITAL, N.IONIA ATHENS, GREECE (1983) Design of all electrical and mechanical installations for a major extension of the Hospital (Constantopoulos Fund) | 6.500.000 |
| * PAROS HEALTH CENTRE, PAROS, GREECE (1983) Design and construction supervision of all electrical and mechanical services of the Centre | 400.000 |
| * DRAMA GENERAL HOSPITAL, DRAMA, GREECE (1987) Design and construction management of all electrical and mechanical installations of the 250 bed general hospital | 8.500.000 |
| * XANTHI GENERAL HOSPITAL, XANTHI, GREECE (1989) Preliminary design (for tendering purposes) of all electrical and mechanical services of the 300 bed capacity general hospital | 12.000.000 |
| * MITERA MATERNITY HOSPITAL, ATHENS, GREECE (1990) Detailed design and construction supervision of the laboratories ward extension of the maternity hospital | 215.000 |
| * PSYCHIATRIC & NEUROLOGICAL SCHOOL of the UNIVERSITY of THESSALONIKI, GREECE (1972) Design and construction supervision of all electrical and mechanical installations of the new faculty premises | 1.925.000 |
| * GENERAL HOSPITAL IN EGYPT (1986) Complete design of all electrical and mechanical installations (in association with other consultants) for a new general hospital | 4.950.000 |
| * PHOEBE GENERAL HOSPITAL, SUAKOKO, LIBERIA (1989) Design of all electrical and mechanical installations for the EEC funded extension of a general hospital | 1.500.000 |

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| * MITERA MATERNITY HOSPITAL, EXPANSION, ATHENS, GREECE (1992) Design and construction supervision of new operating theatres, laboratories and patient wards of the maternity hospital | 1.000.000 |
| * HYGEIA GENERAL HOSPITAL EXPANSION, ATHENS GREECE (1992) Design and construction supervision of all electrical and mechanical installations of an extension of the hospital covering eight new operating theatres, auxiliary space, etc. | 1.200.000 |
| * LIMNOS GENERAL HOSPITAL, LIMNOS GREECE (1993) Design of all electrical and mechanical installations of the Limnos island general hospital | 8.000.000 |
| * LARISSA UNIVERSITY HOSPITAL, LARISSA GREECE (1993) Design of all electrical and mechanical installations of the 700 bed University General Hospital in Larissa Greece (1991-1993) (in co-operation with two other consultants) | 20.000.000 |
| * ATHENS MEDICAL CENTRE EXPANSION, ATHENS, GREECE(1991 - 1993) Design of all electrical and mechanical installation for major extension of the ATHENS MEDICAL CENTRE General Hospital, covering new high-tech laboratories, operating theatres words etc. | 2.000.000 |
| * MITERA MATERNITY CLINIC, IRAKLION, CRETE, GREECE (1993) Design of all electrical and mechanical installation of the 50 bed, maternity and diagnostic clinic | 2.000.000 |
| * KALAMATA STATE HOSPITAL, KALAMATA, GREECE(1997) Design of all electrical and mechanical installations for the 400 bed general hospital | 3.000.000 |
| * DIAVALKANIKO MEDICAL CENTRE SA, THESSALONIKI, GREECE (1998) Design of all electrical and mechanical installations for the 400 bed private general hospital final design | 8.000.000 |
| * TZANNIO STATE HOSPITAL, ATHENS, GREECE (2000) Design of all electrical and mechanical installations for the extension of the general hospital | 2.500.000 |
| * SISMANOGLIO HOSPITAL, ATHENS, GREECE (2000) Design of all electrical and mechanical installations for the new building extension of the general hospital | 1.800.000 |

- * IASSO GENERAL HOSPITAL, ATHENS, GREECE (2002)
Design of all electrical and mechanical installations for the refurbishment and conversion of “HERA” maternity hospital to a 200 bed general hospital **~6.000.000**

- * IASSO PAEDIATRIC HOSPITAL, ATHENS, GREECE (2002)
Design of all electrical and mechanical installations for the new building of the paediatric hospital **~3.500.000**

- * ATHENS STATE GENERAL HOSPITAL, ATHENS, GREECE (2002)
Preliminary design of all electrical and mechanical installations for the new operating theatre building (including ICU’s, laboratories new boiler rooms, power center). Client DEPANOM (Public Company for the Construction of Medical Centers) **~3.450.000**

- * VIOFORMA SA, ATHENS, GREECE (2005)
Design of all electrical and mechanical installations for the new Medical laboratory center in Athens. **~280.000**

- * MMC SA, ATHENS, GREECE (2009)
Design of all electrical and mechanical installations for the new Medical examination center in Athens(MRI, CT, X-ray,labs etc) . **~470.000**

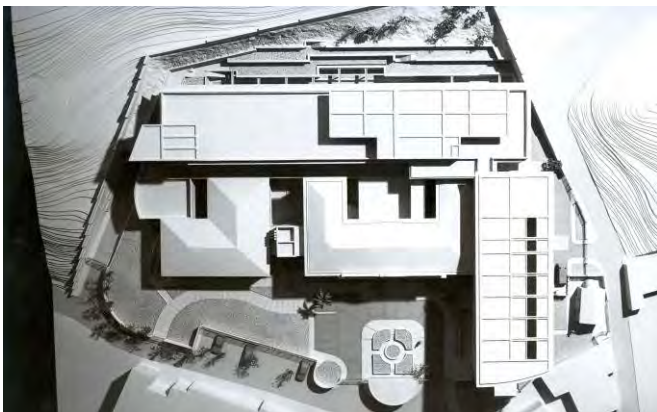
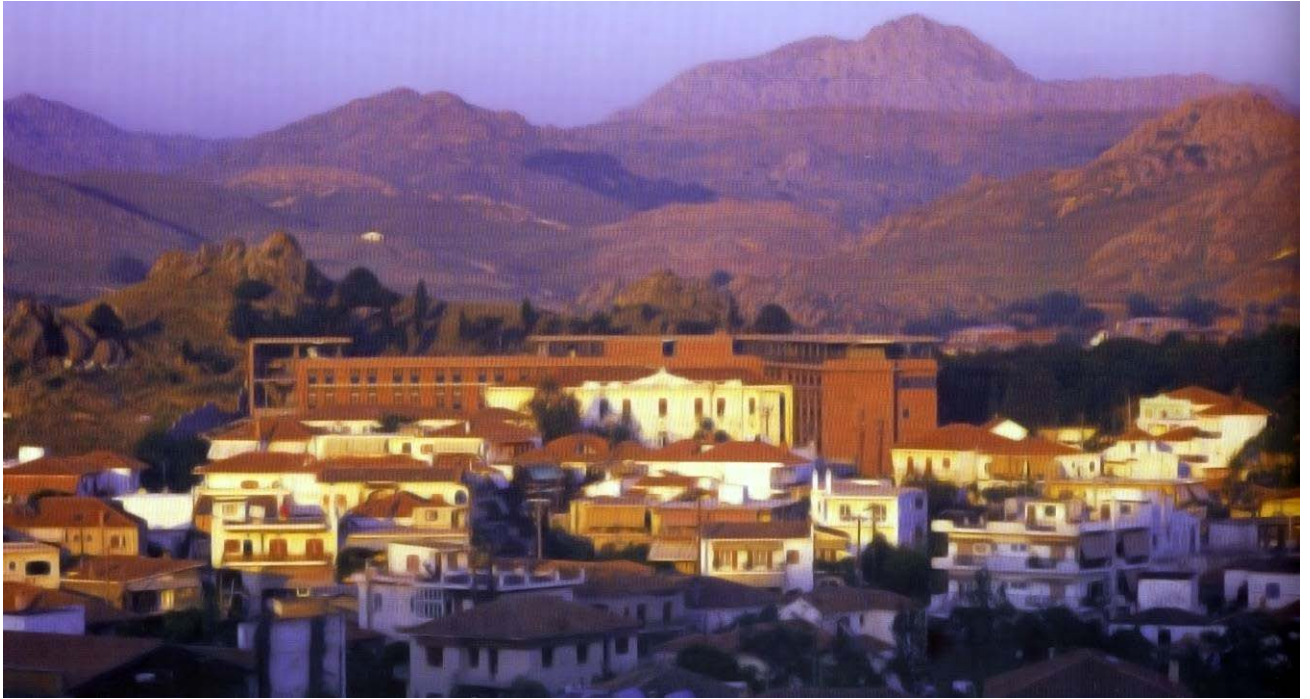
- * “ZOE” GENERAL AND ONCOLOGICAL HOSPITAL
IN THESSALONIKI – GREECE (2010)
Design of all electrical, mechanical and infrastructure installations **~16.000.000**

AGHIA SOPHIA CHILDREN'S HOSPITAL, ATHENS



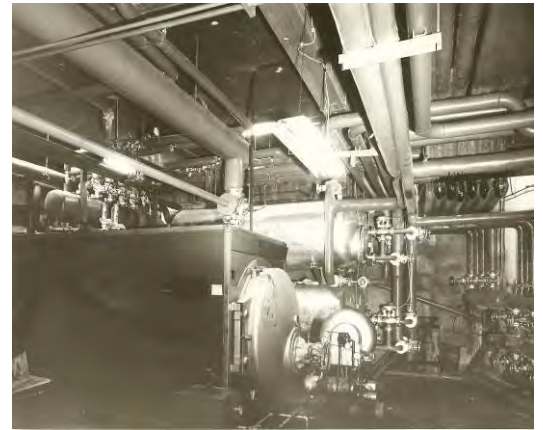
Client: Aghia Sophia Children's Hospital
Project Value: \$ 10.000.000
Description: Complete design and supervision of MEP installation of new buildings, additions and extensions, over a period of time, of Outpatients Dept. (microbiological & dermatological), Heart Surgery & Intensive Care Dept., First Class Wards, Nurses Training School & Hostel, Assessment Centre for the disabled, Central Energy Building and site development.
Total building area: 25225 m²
Services period: 04/1976 - 09/1981

LIMNOS GENERAL HOSPITAL (RENOVATION AND EXTENSION), LIMNOS



Client: Ministry of Health
Project Value: \$ 8.000.000
Description: Complete design of MEP installation of the new Limnos Hospital including the extension and remodelling of existing hospital buildings and the provision for a wartime emergency surgical department
Total building area: 12335 m²
Services period: 05/1993 - 02/1994

"HYGEIA" GENERAL HOSPITAL, ATHENS



Client: HYGEIA HOSPITAL
Project Value: \$ 12.000.000 (1974), \$ 1.200.000(1992) (MEP services - at construction period)
Description: Complete MEP services design and construction supervision for the 320 beds private general hospital and diagnostic centre. Same services were provided again during the 1992 extension of the hospital
Services period: 1974, 1992

“MITERA” MATERNITY HOSPITAL, ATHENS



Client: MITERA MATERNITY HOSPITAL
Project Value: \$ 4.200.000 (1978), \$ 1.200.000(1991-1992) (MEP services - at construction period)
Description: Complete MEP services design and construction supervision for the private maternity hospital. Same services were provided again during the 1991 laboratories extension and 1992 wards and operating theatres extension of the hospital
Services period: 1974, 1992

“IATRIKO KENTRO”- ATHENS MEDICAL CENTRE, ATHENS



Client: IATRIKO KENTRO ATHINON SA
Project Value: \$ 3.000.000 (1979), \$ 2.200.000(1991-1992) (MEP services - at construction period)
Description: Complete MEP services design and construction supervision for the private general and paediatric hospital. Same services were provided again during the 1991-1993 wards and operating theatres extension of the hospital
Services period: 1979, 1991-1992

“AGHIOS ANDREAS” UNIVERSITY-GENERAL HOSPITAL, PATRAS, GREECE



Client: DEPANOM SA
Project Value: \$ 17.000.000 (MEP services - at construction period)
Description: Complete MEP services design for the 700 beds public university general hospital.
Services period: 1982

LARISSA UNIVERSITY GENERAL HOSPITAL, LARISSA, GREECE



Client: DEPANOM SA
Project Value: \$ 20.000.000 (MEP services - at construction period)
Description: Complete MEP services design for the 700 beds public university general hospital. (in cooperation)
Services period: 1991-1993

“IASO” MATERNITY HOSPITAL, ATHENS



Client: IASO Group
Project Value: \$ 4.500.000 (MEP services - at construction period)
Description: Complete MEP services design for the 320 beds private maternity hospital.
Services period: 1993

“DIAVALKANIKO” MEDICAL CENTRE, THESSALONIKI



Client: DIAVALKANIKO MEDICAL CENTRE – IATRIKO ATHINON GROUP
Project Value: \$ 8.000.000
Description: Final-Tender MEP services design for the 400 beds private general hospital
Services period: 1998

“IASO” GENERAL HOSPITAL, ATHENS



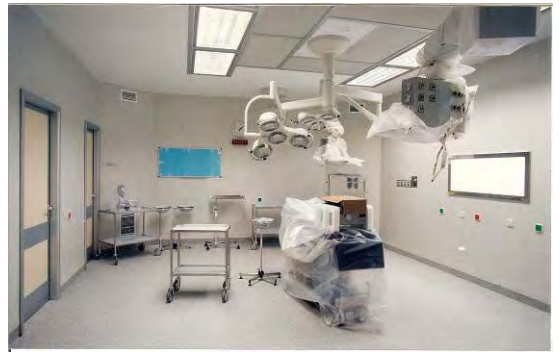
- Client:** IASO Group
Project Value: ~ \$ 6.000.000 (MEP services - at construction period)
Description: Complete MEP services design for the refurbishment and conversion of an older maternity clinic (“Hera”) into a 200 beds private general hospital.
Services period: 2002

“IASO” PAEDIATRIC HOSPITAL, ATHENS



- Client:** IASO Group
Project Value: ~ \$ 3.500.000 (MEP services - at construction period)
Description: Complete MEP services design for the construction of a new private paediatric hospital.
Services period: 2003-2003

KALAMATA PUBLIC GENERAL HOSPITAL, KALAMATA, GREECE



Client: DEPANOM SA
Project Value: \$ 3.000.000 (MEP services - at construction period)
Description: Complete MEP services design for the 400 beds public general hospital.
Services period: 1997

“TZANNIO” PUBLIC GENERAL HOSPITAL, ATHENS



Client: DEPANOM SA
Project Value: \$ 2.500.000 (MEP services - at construction period)
Description: Complete MEP services design for the year 2000-2001 extension of the public general hospital.
Services period: 2000

“ZOE” GENERAL & ONCOLOGICAL HOSPITAL, THESSALONIKI



Client: EUROMEDICA Group
Project Value: ~ \$ 16.000.000
Description: Complete MEP services final and tendering design for the private general and cancer treatment hospital in Thessaloniki, Greece
Services period: 2010



Industrial Buildings

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|---|--|
| * VOLKSWAGEN REPAIR WORKSHOP, ATHENS, GREECE (1966) Design and construction supervision of all electrical and mechanical installations | 400.000 |
| * CENTRAL PUBLIC TELEPHONE EXCHANGE BUILDING EXTENSION, CHANIA, GREECE (1968) Design of all electrical and mechanical installations | 600.000 |
| * PFIZER PHARMACEUTICAL PLANT, AVLONA, ATTICA GREECE (1971) Design of all electrical and mechanical installations | ~2.000.000 |
| * GALATSI PUBLIC TELEPHONE EXCHANGE BUILDING, ATHENS, GREECE (1970) Design of all electrical and mechanical installations | 700.000 |
| * KOLONOS PUBLIC TELEPHONE EXCHANGE BUILDING, ATHENS, GREECE (1971) Design of all electrical and mechanical installations | 650.000 |
| * SMALL CRAFT AND YACHTS MARINA, THESSALONIKI, GREECE (1971) Detailed design of electrical, mechanical, infrastructure and quay facilities | 250.000 |
| * TOURIST DEVELOPMENT, INFRASTRUCTURE AND YACHTS MARINA, GOUVIES, CORFU, GREECE (1973) Detailed design of electrical, mechanical, infrastructure and quay facilities | 1.950.000 |
| * UP JOHN PHARMACEUTICAL FACTORY, PALLINI, GREECE (1973) Design and construction supervision of all electrical and mechanical installations | ~ 1.250.000 |
| * STERLING DRUG SA PHARMACEUTICAL FACTORY, PALLINI, GREECE (1973) Design and construction supervision of all electrical and mechanical installations | ~ 1.200.000 |
| * BOEHRINGER INGELHEIM SA PHARMACEUTICAL FACTORY, KOROPI, GREECE (1974) Design of all electrical and mechanical installations | ~4.500.000 |
| * GERBER SA BABY FOOD FACTORY, KORINTH, GREECE (1974) Design of all electrical and mechanical installations | 2.500.000 |

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| * SOUND RECORDING STUDIOS, PEANIA, GREECE(1974) Detailed design and construction supervision of all electrical and mechanical installations | 360.000 |
| * LADRUG SA PHARMACEUTICAL FACTORY, PALLINI, GREECE (1975). Design and construction management of all electrical and mechanical installations | 400.000 |
| * UNION CARBIDE, BATTERY FACTORY EXTENSION, THIVA, GREECE (1975) Design and construction supervision of all electrical and mechanical installations | 350.000 |
| * PETSIAVAS SA PHARMACEUTICAL FACTORY ATHENS, GREECE (1976) Design and construction supervision of all electrical and mechanical installations | 550.000 |
| * GLAXO SA PHARMACEUTICAL FACTORY, KRYONERI GREECE (1978) Design and construction supervision of all electrical and mechanical installations | 1.000.000 |
| * URBAN PUBLIC TRANSPORT FOR THE CITY OF DAMMAM-DAMMAM MAINTENANCE DEPOT, DAMMAM, SAUDI ARABIA (1978) Design of all electrical and mechanical installations | 3.000.000 |
| * GREEK RAILWAYS, AMALIAS STATION DEPOT ATHENS, GREECE (1981) Detailed design and construction supervision of all electrical and mechanical works pertaining to the new "Amalias" station depot | 450.000 |
| * CIBA-GEIGY SA PHARMACEUTICAL FACTORY, ANTHOUSA, ATHENS, GREECE (1981) Design and construction supervision of all electrical and mechanical installations | ~ 4.000.000 |
| * DAMMAM SHIP REPAIR YARD, DAMMAM, SAUDI ARABIA (1982) Design of all infrastructure and electrical and mechanical installations | 30.000.000 |
| * SMALL CRAFT AND YACHTS MARINA, ITEA GREECE (1990) Detailed design of electrical, mechanical, infrastructure and quay facilities | 600.000 |
| * INTERGROSS CHILLED & COLD STORAGE, KOROPI, GREECE (1990) Detailed design of all electrical and mechanical systems relating to industrial buildings for chilled and cold storage | 950.000 |

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|--|------------------|
| * CHANIA POWER STATION, CHANIA, CRETE, GREECE (1992) Gas and steam turbine combined cycle block 132.4MW. Design and co-ordination of all under-ground networks, utilities and services within the new powerplant Client : Asea-Brown-Boveri (ABB Power Generation Ltd) Baden, Switzerland | 780.000 |
| * ARAB SHIP REPAIR YARD (ASRY), BAHRAIN (1992) Design and construction supervision of infrastructure, electrical and mechanical utilities to support quay facilities and 2 Nos. floating dry docks (200000 DWT and 500000 KWT) | 7.500.000 |
| * MEDINA-YANBU DESALINATION & POWER PLANT YANBU, SAUDI ARABIA (1992-93) Preliminary and detailed design of the stormwater drainage system for the MSF seawater desalination plant, Phase 2, Lot 2 Client : Saudi Condreco, General Contractors | 600.000 |
| * BEN ROUBIS SA - WAREHOUSE COMPLEX, INOFYTA, GREECE, (1994) Design and construction supervision of all electrical and mechanical utilities and services for the 1000 sq.m. warehouse complex | 1.400.000 |
| * FAMAR SA - PHARMACEUTICAL FACTORY, AVLON, ATTICA, GREECE (1995-2005) Design and construction supervision of all electrical and mechanical installations | 6.500.000 |
| * PITSOS SA, HOUSE APPLIANCES TEST CHAMBERS, PIRAEUS, GREECE (1995) Design of all electrical and mechanical installations for the extension of the test chambers for the house appliances manufacturer | 550.000 |
| * F.LAVDAS SA, CANDY FACTORY, ASPROPYRGOS, ATHENS, GREECE (1996) Design, supervision and construction management of all electrical and mechanical and production installations and systems | 1.200.000 |
| * P.P.C. POWER PLANT - 4th UNIT, MEGALOPOLIS, GREECE (1996) Design of industrial and supporting networks and mechanical services for the desulphurisation plant | 1.400.000 |
| * ATHERINOLACCOS POWER STATION (PPC) (2002 –2003) 85.2 MW diesel fuelled power plant. Detailed design and construction drawing of roadworks, storm sewers and cooling water disposal. Client : Athena JV (in collaboration with DENCO S.A.) | 650.000 |

- * LAVRIO POWER STATION (PPC) (2004 – 2005)
5th unit extension.
108MW Combined cycle power plant. Detailed design and construction drawings of roadworks, industrial effluents drainage and storm sewers.
Client : METKA (in collaboration with DENCO S.A.) **935.000**
- * AGIOS NICOLAOS POWER STATION (AdG), Units 1,2&3
3 x 120MW Steam & Gas turbines. Detailed design and construction drawings of roadworks, and storm sewers.
Client : METKA S.A. (in collaboration with DENCO S.A.) **2.000.000**
- * ALIVERI POWER STATION (PPC), 5th unit extension.
180MW Combined cycle power plant. Detail design and construction drawings of roadworks, industrial effluents drainage and storm sewers.
Client : METKA S.A. (in collaboration with DENCO S.A.) **1.200.000**
- * MABEL SA, CHOCOLATE FACTORY, MARKOPOULO, ATHENS, GREECE (1997)
Design, supervision and construction management of all electrical and mechanical and production installations and systems **1.200.000**
- * NATURAL GAS PROJECT (DEPA), GREECE (1998)
Detailed design audit/approval and construction supervision of 3Nos Industrial Metering and Reduction Stations (19/4 bar) at each of ELVAL, HALKOR and GIANNOUSIS Industries in Inofyta. Work comprised installation, connection and commissioning of industrial type stations (by SCHLUMBERGER) and associated auxiliaries
Client: DEPA SA
Contractor: ZEUS SA General Contractors **185.000 (fees)**
- * NATURAL GAS PROJECT (DEPA), GREECE (1998)
Detailed design audit/approval and construction supervision of 3Nos Industrial Metering and Reduction Stations (19/4 bar) at each of IMAS, LEVENTERIS, HALYVOURGIA THESSALIAS Industries in Volos. Work comprised installation, connection and commissioning of industrial type stations (by SCHLUMBERGER) and associated auxiliaries
Client: DEPA SA
Contractor: J/V ATERMON-GANTZOULAS-KAMATAKIS **150.000 (fees)**
- * NATURAL GAS PROJECT (DEPA), GREECE (1998-1999)
Detailed design audit/approval and construction supervision of 2Nos Industrial Metering and Reduction Stations (19/4 bar) at each of GIOULA, ELAIS and FIVOS Industries in Athens. Work comprised installation, connection and commissioning of industrial type stations (by SCHLUMBERGER) and associated auxiliaries
Client: DEPA SA
Contractor: J/V ATERMON-GANTZOULAS-KAMATAKIS **166.000 (fees)**

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| * NATURAL GAS PROJECT (DEPA), GREECE (1999) Detailed design audit/approval and construction supervision of 4Nos Industrial Metering and Reduction Stations (19/4 bar) at each of STAVRINOS, THOMOGLU, ETEM, EPALME and ALUMAN Industries in Schimatari, Greece. Work comprised installation, connection and commissioning of industrial type stations (by SCHLUMBERGER) and associated auxiliaries Client: DEPA SA Contractor: IREM Spa Hellas, J/V AKTOR SA-ETETH SA | 180.000 (fees) |
| * PHARMATEN SA PHARMACEUTICAL FACTORY - HALKIS GREECE (2003) Design of all electromechanical installations based on GMP requirements | 1.600.000 |
| * BIOFORMA SA MICROBIOLOGICAL LABS ATHENS (2004-2006) Design and supervision of all required building conversion and electromechanical installations | 400.000 |
| * BSH (PITSOS) ABE FACTORY IN PIRAEUS (2000-2009) Design of various HVAC installation | 870.000 |
| * BSH (PITSOS) ABE FACTORY IN PIRAEUS (2000-2009) Design of central fire fighting system | |
| * BSH (PITSOS) ABE FACTORY IN PIRAEUS (2000-2009) Design of the natural gas supply distribution system | |
| * GEROLYMATOS SA, "DAEDALUS 4" STORAGE & OFFICE BUILDING, KRYONERI, GREECE (2004-2008) Design of all electrical and mechanical installations of a new 4.500m ² pharmaceutical products warehouse and office building. | ~1.000.000 |
| * GEROLYMATOS SA, "HERMES" OFFICE & STORE BUILDING IN KRYONERI – ATTICA (2004-2006) Design of all electromechanical installations | ~1.160.000 |
| * GEROLYMATOS SA, "IKARUS" PACKAGING & STORE BUILDING IN KRYONERI – ATTICA (2006-2008) Design of all electromechanical installations | ~4.100.000 |
| *MERCEDES-BENZ HELLAS SA, LOGISTICS CENTRE, ASPROPYRGOS, GREECE (2005) Design of all electrical and mechanical installations of a new 10.000m ² spare parts logistics centre. | ~3.000.000 |
| *PAPASTRATOS (PHILIP MORRIS) TOBACCO FACTORY ASPROPYRGOS, ATTICA, GREECE (2009) Preparation of construction drawings of all electrical and mechanical installations and design of fire fighting systems. | ~18.000.000 |

TEKEM SA

Consulting Engineers

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| *"ROBERT BOSCH S.A." NEW HEADQUARTERS BUILDING STORES AND WORKSHOPS, KOROPI, ATHENS (2009) Design and supervision of all electromechanical installation of a new 9.000m ² building | ~3.000.000 |
| *"KYKLI OINOY WINERY" WINE FACTORY IN TRAGANA FTHIOTIDA (2010) Design of all electromechanical installations | ~280.000 |

CIBA-GEIGY OFFICES AND PHARMACEUTICAL PLANT, ANTHOUSA - ATTICA



Client: Ciba-Geigy Hellas S.A.
Project Value: \$ 4.000.000
Description: Complete design and supervision of MEP installations of the Greece Headquarters of Ciba-Geigy and pharmaceutical manufacturing facility, including offices, meeting rooms, production areas, laboratories, warehouses, energy building, waste treatment plant and landscaping.
Total building area: 12850 m²
Services period: 12/1978 - 12/1982

BOEHRINGER INGELHEIM PHARMACEUTICAL PLANT, KOROPHI - ATTICA



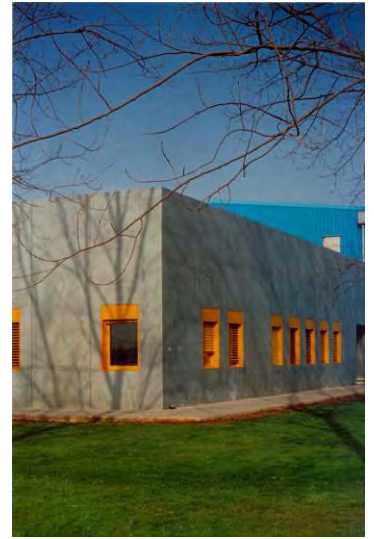
Client: Boehringer Ingelheim Produktion S.A.
Project Value: ~ \$ 4.500.000
Description: Complete design and supervision of MEP installations of a pharmaceutical manufacturing facility, including production areas, laboratories, warehouses, offices, restaurant and landscaping.
Total building area: 11570 m²
Services period: 06/1974 – 02/1976 & 02/1982 – 10/1982

CONVERSION OF EXISTING INDUSTRIAL BUILDING INTO OFFICES AND WAREHOUSE, KRYONERI - ATTICA



Client: P.N. Gerolymatos S.A.
Project Value: ~ \$ 3.500.000
Description: Complete design and supervision of MEP installations for the conversion of an existing industrial building into administration & warehouse facilities and the addition of a new packaging and warehouse building including offices, meeting rooms, warehouses, packaging unit and landscaping
Total building area: 7200 m²
Services period: 11/2004 - 06/2006

FAMAR PHARMACEUTICAL & COSMETICS PLANT, AVLONA - ATTICA



Client: Famar S.A.
Project Value: ~ \$ 6.500.000
Description: Complete design and supervision of MEP installations of extensions and additions, over a period of time, to the original Pfizer unit, including a cosmetics manufacturing facility, warehouses, restaurant and waste treatment plant.
Total building area: 24770 m²
Services period: 04/1997 - 10/2005

PFIZER PHARMACEUTICAL PLANT, AVLONA - ATTICA



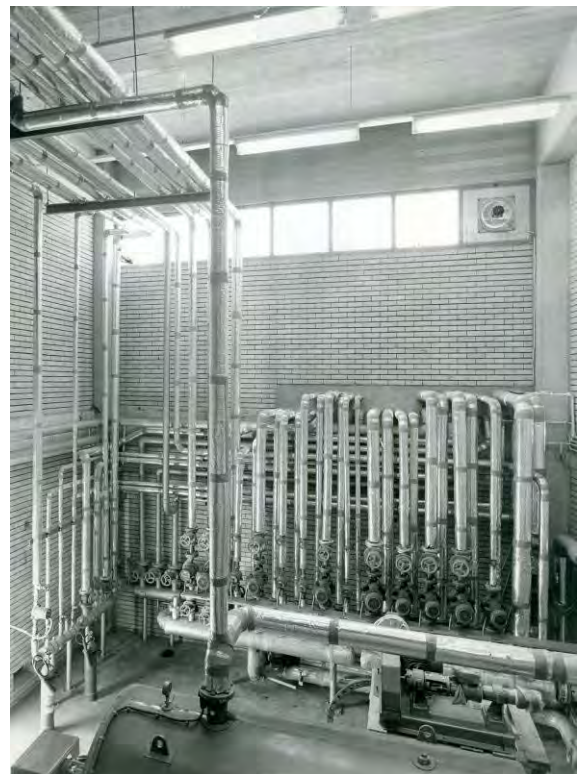
Client: Pfizer Hellas S.A.
Project Value: ~ \$ 2.000.000
Description: Complete design and supervision of MEP installations of a pharmaceutical manufacturing facility, including production areas, laboratory, warehouses, offices, energy building, a separate feed-supplement unit and landscaping.
Total building area: 5530 m²
Services period: 05/1969 – 11/1971

STIRLING DRUG (WINTHROP) PHARMACEUTICAL PLANT, ATHENS



Client: Stirling Drug Hellas S.A.
Project Value: ~ \$ 1.200.000
Description: Complete design and supervision of MEP installations of a pharmaceutical manufacturing facility, including production areas, laboratories, warehouses, administration and landscaping.
Total building area: 2810 m²
Services period: 06/1971 – 10/1974 & 01/1977 – 11/1977

UPJOHN PHARMACEUTICAL PLANT, ATHENS



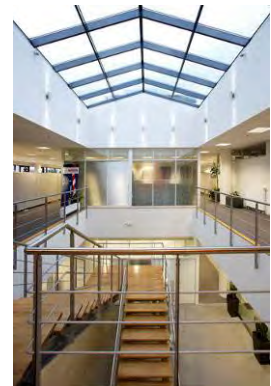
Client: Upjohn Hellas S.A.
Project Value: \$ 1.250.000
Description: Complete design and supervision of MEP installations of a pharmaceutical manufacturing facility, including production areas, laboratories, warehouses, administration, independent restaurant pavilion and landscaping.
Total building area: 2810 m²
Services period: 03/1970 – 12/1972

MERCEDES-BENZ LOGISTICS CENTRE, ASPROPYRGOS, GREECE



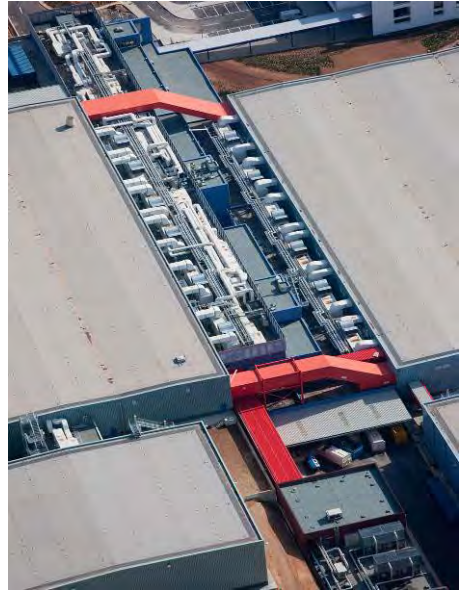
Client: Mercedes-Benz Hellas SA
Project Value: ~ \$ 3.000.000
Description: Complete MEP services design for the new spare parts logistics centre.
Total Building Area: 10.000m²
Services period: 2005

“ROBERT BOSCH GMBH” NEW HEADQUARTERS < WAREHOUSES & WORKSHOPS BUILDING, KOROPI, ATHENS, GREECE

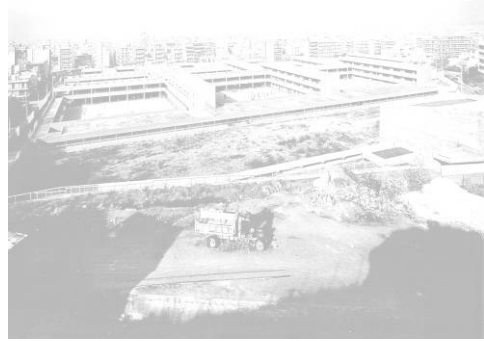


Client: R.BOSCH GMBH
Project Value: ~ \$ 3.000.000
Description: Complete MEP services design and supervision for the new headquarters, warehouses and training and maintenance workshops building.
Total Building Area: 10.000m²
Services period: 2009

PHILIP MORRIS INTERNATIONAL FACTORY, ASPROPYRGOS, GREECE



Client: J&P AVAX SA – General Contractors
Project Value: ~ \$ 18.000.000
Description: Complete MEP services detail & construction design for the new factory complex.
Total Building Area: 100.000m²
Services period: 2009



Educational Facilities

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|--|--|
| * MALE STUDENTS DORMITORIES, ATHENS, GREECE (1964) Design and construction supervision of all electrical and mechanical installations | 1.500.000 |
| * NAOUSA MEDIUM LEVEL TECHNICAL SCHOOL, NAOUSA, GREECE (1964). Design of all electrical and mechanical installations | 2.500.000 |
| * SIVITANIDIOS MALE STUDENT BOARDING FACILITIES, ATHENS, GREECE (1966) Design of all electrical and mechanical installations | 1.000.000 |
| * DEMOKRITOS NUCLEAR RESEARCH CENTRE, ATHENS, GREECE (1970) Detailed design and construction supervision of all electrical and mechanical installations and services relating to the electronics laboratories building | 3.600.000 |
| * IOANNINA STUDENTS DORMITORIES No. 1, IOANNINA GREECE (1972) Design of all electrical and mechanical installations | 3.500.000 |
| * ATHENS MUSIC ACADEMY, GREECE (1972) Detailed design and construction supervision of all electrical and mechanical installations, on behalf of the Ministry of Works | 680.000 |
| * GRAVA SCHOOL COMPLEX, ATHENS, GREECE (1973) Design of all electrical and mechanical installations (in co-operation with another consultant) | 7.000.000 |
| * ANAVRITA BOARDING SCHOOL FACILITIES, KIFISSIA, GREECE (1973) Design of all electrical and mechanical installations | 1.800.000 |
| * KING PAUL SCHOOL COMPLEX, GREECE (1973) In co-operation with another engineering consulting firm, detailed design and construction supervision of all electrical and mechanical installations | 1.200.000 |
| * KILKIS SECONDARY TECHNICAL SCHOOL, KILKIS GREECE (1974) Design of all electrical and mechanical installations | 1.600.000 |
| * PREVEZA SECONDARY TECHNICAL SCHOOL, PREVEZA, GREECE (1975) Design of all electrical and mechanical installations | 1.300.000 |

| | |
|---|-------------------|
| * MUSIC ACADEMY OF ATHENS, ATHENS, GREECE (1975) Design and construction supervision of all electrical and mechanical installations | 4.200.000 |
| * NEW CLASSROOM BUILDING FOR THE UNIVERSITY OF PETROLEUM AND MINERALS, DHAHRAN, SAUDI ARABIA (1977) Design of all electrical and mechanical installations | 1.250.000 |
| * FLORINA SECONDARY TECHNICAL SCHOOL, FLORINA GREECE (1976) Design of all electrical and mechanical installations | 1.300.000 |
| * SERRES SECONDARY TECHNICAL SCHOOL, SERRES GREECE (1977) Design of all electrical and mechanical installations | 1.400.000 |
| * DEREK COLLEGE LIBRARY, ATHENS, GREECE (1978) Design of all electrical and mechanical installations | ~ 450.000 |
| * IOANNINA UNIVERSITY, IOANNINA, GREECE (1980) Design of all electrical and mechanical installations (in co-operation with other consultants) | 20.000.000 |
| * PIRAEUS HIGHER TECHNICAL SCHOOL, PIRAEUS, GREECE (1980) Design of all electrical and mechanical installations | 2.500.000 |
| * LIVESTOCK-BREEDING INSTALLATIONS, KOPAIS, GREECE (1981) Agricultural University of Athens Design of all electrical and mechanical installations | 4.000.000 |
| * IOANNINA STUDENTS DORMITORIES No 2 IOANNINA, GREECE (1982) Design of all electrical and mechanical installations | 2.000.000 |
| * UNIVERSITY OF IOANNINA, IOANNINA, GREECE (1982) Design of all electrical and mechanical installations (in co-operation with other consultants) | 20.000.000 |
| * UNIVERSITY OF CRETE, FACULTY OF MEDICINE(1987) Detailed design of all electrical and mechanical installations and services for the faculty's new premises | 8.950.000 |
| * UNIVERSITY OF CRETE, FACULTY OF APPLIED SCIENCE (1988) Detailed design of all electrical and mechanical installations and services relating to the "Marine & Molecular Biology" premises | 5.800.000 |

- * BAHRAIN CENTRE FOR STUDIES & RESEARCH,
BAHRAIN (1989)
Detailed design and construction supervision of all
electrical and mechanical installations and services **2.650.000**

- * HELLENIC MANAGEMENT ASSOCIATION EDUCATIONAL
CENTER, ATHENS (1992-1995)
Complete design and supervision of electrical and mechanical
installations and services ~ 6.000.000

- * NATIONAL TECHNICAL UNIVERSITY OF ATHENS,
ATHENS, GREECE (1995)
Optical and Microwave Communications Research Laboratories.
Design and tendering of all electrical and mechanical installations **140.000**

- * UNIVERSITY OF THESSALY, ENGINEERING FACULTY
BUILDING VOLOS, GREECE (1997)
Design for tendering purposes of all electrical and mechanical
installations and services **600.000**

- * UNIVERSITY OF CRETE, FACULTY OF CHEMISTRY (1998)
Detailed design of all electrical and mechanical installations and
services relating to the "Chemistry" premises **~5.000.000**

- * CEREBRAL PALSY GREECE EDUCATION & REHABILITATION
CENTRE, ATHENS, GREECE (1998-2002)
Complete design and supervision of electrical and mechanical i
nstallations and services ~ 2.800.000

HELLENIC MANAGEMENT ASSOCIATION EDUCATIONAL CENTRE, ATHENS



Client: Hellenic Management Association (EEDE)
Project Value: ~ \$ 6.000.000
Description: Complete design and supervision of MEP installations of the Educational Centre including 30 seminar halls, a 400-seat auditorium, communal areas, administration offices and meeting rooms.

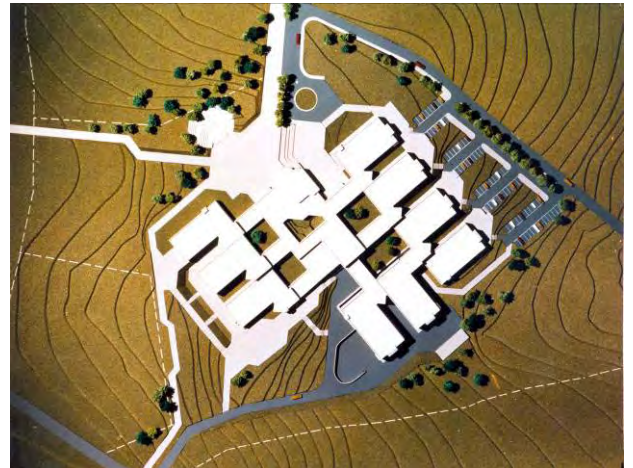
Services period: 03/1992 - 12/1995
Total building area: 12260 m²

**CEREBRAL PALSY GREECE EDUCATION & REHABILITATION CENTRE,
ATHENS**



Client: Cerebral Palsy Greece
Project Value: ~ \$ 2.800.000
Description: Complete design and supervision of MEP installations of a fully accessible Education & Rehabilitation Centre, including classrooms, diagnostics facilities, physiotherapy, workshops for the disabled, a 225-seat multi-purpose hall, library, administration, enclosed pool and outdoor sports area.
Total building area: 6450 m²
Services period: 09/1998 – 12/2002

UNIVERSITY OF CRETE SCHOOL OF MEDICINE, HERAKLEION - CRETE



Client: Ekter S.A. – Psichtiki Ellados S.A. / University of Crete
Project Value: ~ \$ 8.000.000
Description: Complete design and supervision of MEP installations of the University of Crete School of Medicine, including a 310-seat amphitheatre, two 110-seat amphitheatre, lecture and seminar rooms, various types of laboratories, offices and ancillary facilities and landscaping.
Total building area: 23440 m²
Services period: 02/1987 – 12/1988

“DEMKRITOS” NATIONAL NUCLEAR RESEARCH CENTRE, ATHENS, GREECE



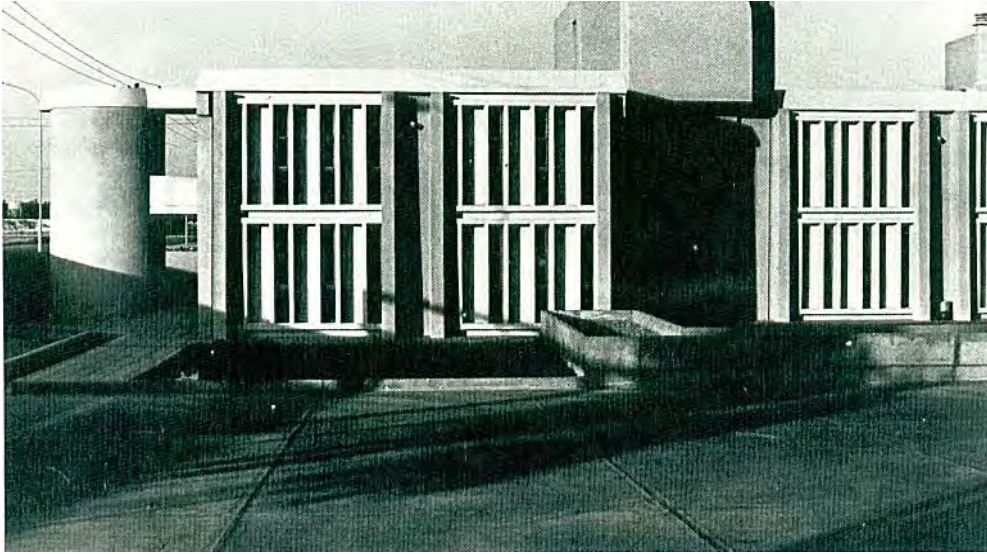
Client: Demokritos National Nuclear Research Centre
Project Value: approx. \$3.600.000 (MEP services - at construction period)
Description: MEP services design and construction supervision for the electronics laboratory and design of the research reactor's cooling system and ancillaries for power increase to 5MW
Services period: 1970-1971

“GRAVA” SCHOOL COMPLEX, ATHENS, GREECE



Client: Greek Ministry of Education
Project Value: ~ \$ 7.000.000 (MEP services - at construction period)
Description: MEP services design (i/c)
Services period: 1973

**NEW CLASSROOM BUILDING, UNIVERSITY OF PETROLEUM & MINERALS,
DHAHRAN, SAUDI ARABIA**



Client: Ministry of Education
Project Value: ~ \$ 1.250.000 (MEP services - at construction period)
Description: MEP services design
Services period: 1977

DEREE COLLEGE LIBRARY, ATHENS, GREECE



Client: Deree American College of Greece
Project Value: ~ \$ 450.000 (MEP services - at construction period)
Description: MEP services design
Services period: 1978



Sport's Facilities

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|---|--|
| * VOLOS STATE SWIMMING POOL, VOLOS, GREECE (1967) Design of all electrical and mechanical installations and pool equipment | 400.000 |
| * "TROPHONION" SWIMMING POOL, LEVADIA, GREECE (1968) Design of all electrical and mechanical installations and pool equipment | 200.000 |
| * PATRAS NATIONAL SPORTS CENTRE, PATRAS, GREECE Design of all infrastructure and electrical and mechanical installations | 8.000.000 |
| * MYTILINI STATE SWIMMING POOL, MYTILINI, GREECE (1972) Design of all electrical and mechanical installations and pool equipment | 400.000 |
| * AMALIAS STATE SPORTS CENTRE, AMALIAS, GREECE (1972) Design of all electrical and mechanical installations | 150.000 |
| * ANATOLIA COLLEGE GYMNASIUM, THESSALONIKI, GREECE (1974) Design and construction supervision of all electrical and mechanical installations and sports facilities | 700.000 |
| * DEREI COLLEGE GYMNASIUM IN AGHIA PARASKEVI, ATHENS, GREECE (1977) Design and construction supervision of all electrical and mechanical installations, and sports facilities | 600.000 |
| * SWIMMING POOL COMPLEX, St. ANARGYROS MUNICIPALITY, ATHENS, GREECE (1997) Design and construction supervision of all electrical and mechanical installations, and sports facilities | 800.000 |
| * ATHENS COASTLINE DEVELOPMENT PROJECT ATHENS, GREECE (2003) Design of E&M and infrastructure systems for an athletic & recreation area of 250 acres to house the BEACH Volley, Boxing, Tae Kwon Do and Volley Games for the Athens 2004 Olympic Games | 25.000.000 |

TEKEM SA

Consulting Engineers

* PANTHELSSALIKO STADIUM, ATHENS 2004
VOLOS, GREECE (2003)
HVAC services construction drawings & design

6.600.000

BEACH VOLLEY & TAEK WON DO STADIUMS , ATHENS 2004 OLYMPIC GAMES, ATHENS, GREECE



Client: Greek Ministry of Public Works
Project Value: ~ \$ 25.000.000
Description: MEP services and infrastructures design for the 250 acres athletic & recreation area at the southern coastline of Athens.
Total seating capacity: 8.500 (TKD), 9600(BV)
Services period: 2003-2004

PANTHESSALIKO STADIUM, ATHENS 2004 OLYMPIC GAMES, VOLOS, GREECE



Client: Techniki Olympiaki SA – General Contractors
Project Value: ~ \$ 6.600.000
Description: HVAC services construction drawings & design for the 22.700 seats capacity stadium in the city of Volos, Greece
Services period: 2003-2004



Hotels and Tourist Resorts

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|--|--|
| * ASTIR (MENTZELOPOULOS) HOTEL, PATRAS, GREECE (1965) Design of all electrical and mechanical installations of the 250 bed luxury hotel | 2.000.000 |
| * I. MAILI TOURIST COMPLEX, AEGINA, GREECE (1966) Design of all electrical and mechanical installations | 500.000 |
| * POSEIDON HOTEL, LOUTRAKI, GREECE (1968) Design of all electrical and mechanical installations | 600.000 |
| * EOT (GREEK TOURIST ORGANISATIONS CLASS C' HOTEL, KYLLINI, GREECE (1969) Design of all electrical and mechanical installations of the 150 bed hotel | 700.000 |
| * E.O.T. VARKIZA BEACH COMPLEX, ATHENS, GREECE(1970) Design of all infrastructure, electrical and mechanical installations | 1.500.000 |
| * ARETHOUSA HOTEL, ATHENS, GREECE (1970) Design and supervision of all electrical and mechanical installations of the 180 bed class B hotel | 900.000 |
| * E.O.T. SMALL CRAFT MARINA, THESSALONIKI, GREECE (1971) Design of all electrical and mechanical installations | 600.000 |
| * ACHAIA BEACH HOTEL, PATRAS, GREECE (1971) Design and construction supervision of all electrical and mechanical installations | 600.000 |
| * RHODOS BAY HOTEL, RHODES, GREECE (1972) Design and construction management of all electrical and mechanical installations of the 650 bed class A hotel | 3.000.000 |
| * APOLLO HOTEL, KARYSTOS, GREECE (1972) Design and construction supervision of all electrical and mechanical installations of the 150 bed class B hotel | 650.000 |
| * E.O.T. AGHII APOSTOLI TOURIST AREA, CHANIA, CRETE, GREECE (1972) Design of infrastructure installations | 350.000 |
| * E.O.T. KARATHONA TOURIST AREA, NAFPLION, GREECE (1972) Design of infrastructure installations | 600.000 |

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|---|-------------------|
| * VRAVRONA BEACH HOTEL, VRAVRONA, GREECE (1972) Design and construction supervision of all electrical and mechanical installations of the 670 bed class B hotel | 3.200.000 |
| * HELIOS HOTEL COMPLEX, LAGHONISI, GREECE (1972) Design of all electrical and mechanical installations of the 1000 bed luxury hotel complex (not realised) | 9.000.000 |
| * APOLLO HOTEL, KAVOURI, ATHENS, GREECE (1973) Design and construction supervision of all electrical and mechanical installations of the 550 bed luxury hotel | 4.000.000 |
| * ILISSOS HOTEL, ATHENS, GREECE (1975) Design of all electrical and mechanical installations of the 180 bed class B hotel | 450.000 |
| * CORFU-HILTON HOTEL, CORFU, GREECE (1976) Design and construction supervision of all electrical and mechanical installations of the 550 bed luxury hotel | 5.500.000 |
| * ASTIR-PALACE ELOUNDA HOTEL, CRETE, GREECE (1978) Design and construction supervision of all electrical and mechanical installations of the 600 bed luxury hotel | 3.500.000 |
| * SAN STEFANO HOTEL, CORFU, GREECE (1979) Design and construction supervision of all electrical and mechanical installations of the 500 bed class A hotel | 2.500.000 |
| * MINOA PALACE HOTEL, IRACLION, CRETE, GREECE (1979) Design and construction supervision of all electrical and mechanical installations of the 224 bed class A hotel | 500.000 |
| * MINOS PALACE HOTEL, AGHIOS NICHOLAOS, CRETE, GREECE(1980) Design of all electrical and mechanical installations of the 270 bed luxury hotel | 1.500.000 |
| * ATHENAEUM-INTERCONTINENTAL, ATHENS, GREECE (1981) Design and construction supervision of all electrical and mechanical services of the 1260 bed luxury hotel | 20.000.000 |
| * ASTIR-PALACE VOULIAGMENI HOTEL, UNIT No II, ATHENS, GREECE (1981) Design and construction supervision of all electrical and mechanical installations of the 300 bed luxury hotel | 4.000.000 |
| * ELOUNDA ROCK HOTEL, ELOUNDA, CRETE, GREECE (1986) Design and construction supervision of all electrical and mechanical installations of a 315 bed luxury hotel | 2.520.000 |

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| * MARLOUNDA VILLAGE COMPLEX, ELOUNDA, CRETE, GREECE (1986) Design and construction supervision of all electrical and mechanical installations of a 275 bed tourist complex | 2.240.000 |
| * SANABIS BEACH COMPLEX, BAHRAIN (1986) Tender design of all electrical and mechanical works, infrastructure and services pertinent to the development of 3km-long tourist resort along the north coast of Bahrain | 7.000.000 |
| * POLEMARCHA-EPIDAVROS COMPLEX, EPIDAVROS, GREECE (1988) Design of all electrical and mechanical installations for a 720 bed tourist complex | 5.720.000 |
| * COLUMBIA-RHODOS COMPLEX, RHODES, GREECE (1988) Design of all electrical and mechanical installations for a 530 bed luxury hotel (not realised) | 3.660.000 |
| * PORTO ELOUNDA MARE, ELOUNDA, CRETE, GREECE(1990) Design of all electrical and mechanical installations for a 515 bed tourist resort | 4.710.000 |
| * GRECOTEL ELOUNDA VILLAGE SA, ELOUNDA, CRETE, GREECE (1995) Design of all electrical and mechanical installations for the refurbishment of the 240 bed hotel | 1.000.000 |
| * AEDIPSOS SPA-HOTEL COMPLEX, AEDIPSOS, GREECE (1997) Renewal and refurbishment of a classical spa resort complex. Design of all electrical and mechanical services and utilities | 2.600.000 |
| * SUNWING HOTELS HELLAS, RHODES, GREECE(1999) Design of all electrical and mechanical installations for a 270 luxury studios tourist resort | 3.800.000 |
| * PERISCOPE-HOTEL, ATHENS, GREECE (2005) Renewal and refurbishment of a 22 bedroom boutique hotel. Design of all electrical and mechanical services and utilities | 500.000 |
| * VARIOUS RENOVATION WORKS FOR ATHENS INTERCONTINENTAL HOTEL, ATHENS, GREECE (2008) Design of all electromechanical installations for new kitchen, laundry, health center etc. | |

CORFU HILTON HOTEL, CORFU, GREECE



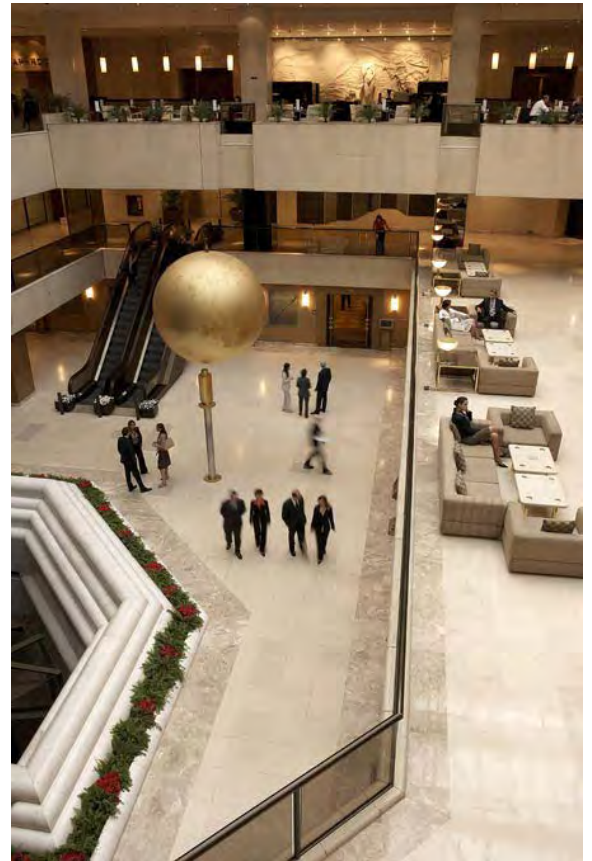
Client: Corfu Hilton
Project Value: ~ \$ 5.500.000
Description: MEP services design and construction supervision for the 550beds luxury hotel.
Services period: 1976

MINOS PALACE HOTEL, AGHIOS NIKOLAOS, CRETE, GREECE



Client: Minos Palace Hotel – Mamidakis Group
Project Value: ~ \$ 1.500.000
Description: MEP services design for the 270 beds luxury hotel.
Services period: 1980

ATHENAEUM INTERCONTINENTAL HOTEL, ATHENS, GREECE



Client: Athenaeanum Intercontinental Hotel
Project Value: In excess of. \$20.000.000
Description: MEP services design and construction supervision for the 1260 beds luxury hotel. MEP design and supervision services throughout the operation of the hotel in various occasions and refurbishment phases.
Services period: 1981, 2005, 2008

THERMAE SYLLA SPA & WELLNESS HOTEL, AEDIPSOS, EVIA, GREECE



Client: ANKAR - THERMAE SYLLA HOTEL SA
Project Value: \$ 2.600.000
Description: Complete MEP services design for the restoration and refurbishment of the late 19th century natural thermal springs spa hotel to a modern 5 star spa & wellness centre.
Services period: 1997

PERISCOPE HOTEL, ATHENS, GREECE



Client: YES HOTELS SA
Project Value: \$ 500.000
Description: Complete MEP services design for the refurbishment of the boutique hotel in the centre of Athens.
Services period: 2005

ELOUNDA BEACH HOTEL, ELOUNDA, CRETE, GREECE



Client: HELIOS SA
Description: Complete MEP services design for the luxury hotel resort.
Services period: 1971

PORTO ELOUNDA HOTEL, ELOUNDA, CRETE, GREECE



Client: Porto Elounda Hotel
Project Value: \$ 4.700.000
Description: Complete MEP services design for the luxury resort.
Services period: 1990



Private Houses and Residential Buildings

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|--|--|
| * VARIOUS APARTMENT BUILDINGS IN GREECE AND M. EAST (1960-1983) Design and construction supervision of all electrical and mechanical installations for 42 buildings | 20.000.000 |
| * VARIOUS LUXURY VILLAS IN GREECE AND M. EAST (1960-1983) Design and construction supervision of all electrical and mechanical installations for 28 villas | 8.000.000 |
| * LUXURY APARTMENTS IN PSYCHICON, GREECE (1980) Design and construction supervision of all electrical and mechanical installations | 400.000 |
| * MODEL HOUSING COMMUNITY IN KOMOTINI, GREECE (1982) Design of all electrical and mechanical installations for 165 dwelling units of block IX | 1.500.000 |
| * MODEL HOUSING COMMUNITY IN KOMOTINI, GREECE (1982) Design of all electrical and mechanical installations for dwelling units of block IV | 800.000 |
| * MODEL HOUSING COMMUNITY IN XANTHI, GREECE (1982) Design of all electrical and mechanical installations for 112 dwelling units | 1.100.000 |
| * MODEL HOUSING COMMUNITY IN BUDAIYA & KARRANAH, BAHRAIN (1984) Design and construction supervision of all electrical and mechanical services for 20 Nos. dwelling units | 1.325.000 |
| * RIYADH HOUSING PROJECT No 3 (EAST), RIYADH, GREECE (1982) Design and construction supervision of all electrical and mechanical services for 7500 Nos. dwelling units (typical) | 500.000.000 approx. |
| * CHIONIS VILLA, VOULA, ATTICA, GREECE (1987) Complete design and supervision of a three-level villa, including swimming pool and landscaping | 500.000 |
| * EMBASSY BLDG IN AMMAN, JORDAN (1989) Detailed design & shop drawings (construction) of all electrical and mechanical services for an Embassy Building in association with the main contractor | 10.000.000 |

- *BLUE CITY, OMAN, (ON GOING)
Design of electromechanical and infrastructure installation of various sections of the project **Pending**

- * KALE HOLIDAY HOUSE, AEGINA, GREECE (2003-2005)
Complete design and supervision for a two-storey holiday house on the island of Aegina including landscaping. **110.000**

- * ILIDA VILLAGE RESIDENTIAL COMPLEX, ATHENS, GREECE (2004)
Design and supervision of all MEP and infrastructure services for 241 luxury dwelling units in 22 apartment buildings **10.000.000**

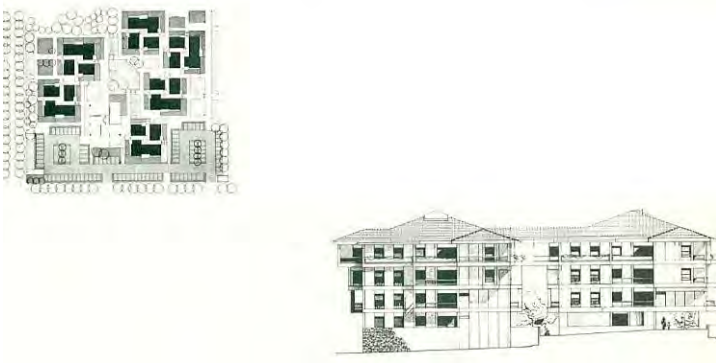
- * VARIOUS VILLAS & LUXURY RESIDENCES, GREECE (1965-now)
MEP services design and construction supervision for a great number (>270Nos) of private residences and villas for private clients

MODEL HOUSING COMMUNITY IN KOMOTINI, KOMOTINI, GREECE



Client: Hellenic Public Real Estate Corporation (KED)
Project Value: ~ \$ 2.500.000 (MEP services - at construction period)
Description: MEP services design for public dwellings.
Services period: 1982

MODEL HOUSING COMMUNITY IN XANTHI, XANTHI, GREECE



Client: Hellenic Public Real Estate Corporation (KED)
Project Value: ~ \$ 1.100.000 (MEP services - at construction period)
Description: MEP services design for public dwellings.
Services period: 1982

MODEL HOUSING COMMUNITY IN MIDDLE EAST COUNTRIES BAHRAIN

MODEL HOUSING COMMUNITY IN BUDAIYA & KARRANAH,BAHRAIN

Client: Ministry of Housing
Project Value: ~ \$ 1.350.000 (MEP services - at construction period)
Description: Design and construction supervision of all MEP and infrastructure services for 20 dwelling units (typical) . (in cooperation)
Services period: 1984

SAUDI ARABIA

RIYADH HOUSING PROJECT No.3 (EAST), RIYADH

Client: Ministry of Housing
Project Value: ~ \$ 500.000.000 (MEP services - at construction period)
Description: Design and construction supervision of all MEP and infrastructure services for 7.500 dwelling units (typical) .
Services period: 1984

KALE HOLIDAY HOUSE, AEGINA



Client: Jennifer Kale
Project Value: \$ 425.000
Description: Complete design and supervision (architectural & MEP) for a two-storey holiday house on the island of Aegina including landscaping.
Total building area: 180 m²
Services period: 02/2003 - 05/2005

CHIONIS VILLA, VOULA - ATTICA



Client: Dionysis & Evgenia Chioni
Project Value: \$ 1.250.000
Description: Complete design and supervision (architectural & MEP) of a three-level villa, including swimming pool and landscaping.
Total building area: 610 m²
Services period: 06/1985 - 09/1987

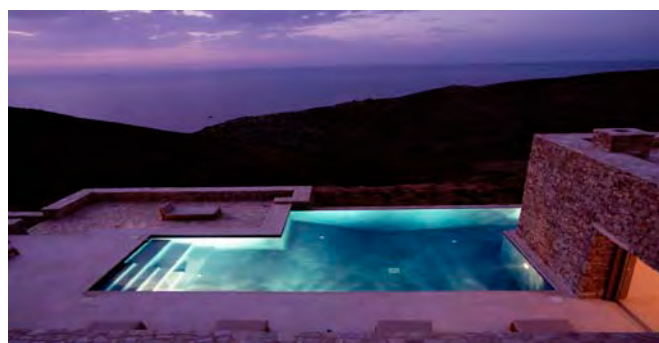
ILIDA VILLAGE RESIDENTIAL COMPLEX, ATHENS, GREECE



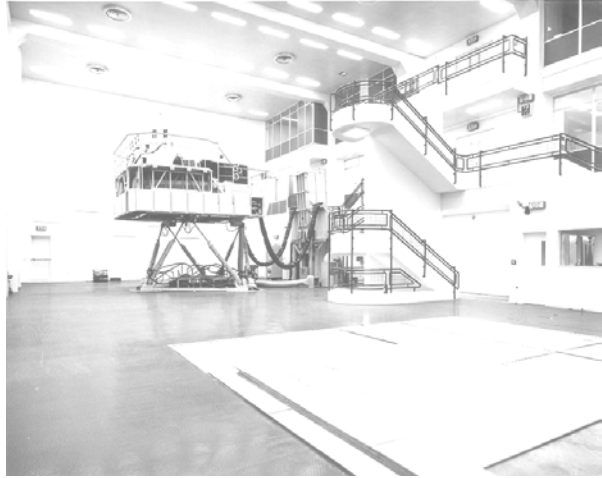
Client: LAMDA Development SA
Project Value: ~ \$ 10.000.000 (MEP services - at construction period)
Description: Design and supervision of all MEP and infrastructure services for 241 luxury dwelling units in 22 apartment buildings.
Services period: 2004

VARIOUS VILLAS & LUXURY RESIDENCES, GREECE

Client: Various private customers
Description: MEP services design and construction supervision for a great number (>270Nos) of private residences and villas
Services period: 1965 - now







Special Projects

| PROJECT | Approx. cost of MEP installations (at design period) |
|--|---|
| * LABORATORY FOR ELECTRONICS OF DEMOKRITOS RESEARCH CENTRE, ATHENS, GREECE (1971) Design of all electrical and mechanical installations | 1.200.000 |
| * ALEXANDER FLEMMING FOUNDATION FOR BASIC BIOLOGICAL RESEARCH LABORATORY BUILDING, VARI, ATTICA, GREECE (1971) Design of air conditioning system etc. | 800.000 |
| * NUCLEAR REACTOR OF DEMOKRITOS RESEARCH CENTRE, ATHENS, GREECE (1971) Design and construction supervision of reactor cooling system and ancillaries for power increase from 1 to 5MW | 2.200.000 |
| * THESSALONIKI MUNICIPAL VEGETABLE MARKET, THESSALONIKI, GREECE (1971) Design of infrastructure, electrical and mechanical installations and central cold stores | 12.000.000 |
| * TWO PASSENGER FERRY BOATS OF 17.000 TDW EACH, GREECE (1971-1973) Design and construction management of all electrical and mechanical installations | 25.000.000 |
| * TV. RECORDING STUDIO FOR "TV. ENTERPRISES SA" KOROPI, GREECE (1975) Design and construction management of all electrical and mechanical installations | 2.000.000 |
| * ASSIROS MILITARY CAMP, ASSIROS, GREECE (1972) Design of all electrical and mechanical installations and infrastructure systems | 1.500.000 |
| * OLYMPIC AIRWAYS, COMPUTER CENTRE, ATHENS, GREECE (1982) Design and construction supervision of all electrical and mechanical installations | 4.500.000 |
| * FLIGHT SIMULATOR BUILDING FOR OLYMPIC AIRWAYS, ATHENS, GREECE (1982) Design of all electrical and mechanical installations | 800.000 |
| * HEADQUARTERS BUILDING, DEPARTMENT OF COMMUNICATIONS, MINISTRY OF INTERIOR IN RIYADH, SAUDI ARABIA (1982) Design of all electrical and mechanical installations | 15.000.000 |
| * FLIGHT SIMULATOR BUILDING FOR FIVE SIMULATORS OF OLYMPIC AIRWAYS IN CHANIA CRETE (1992) Design of all MEP installations | ~ 3.000.000 |

| | |
|--|-------------------|
| * RECONSTRUCTION OF THE DATA CENTER OF CREDIT BANK (ALPHA) SA IN ATHENS (1993) Design and supervision of all electrical and mechanical installation | 10.000.000 |
| * RECEPTION BUILDINGS, AUDITORIUM etc of the ARCHEOLOGICAL SITE OF ANCIENT CARTHAGE TUNISIA (2009) | n.a. |
| * "MEDITERRANEAN NAUTILUS" DATA CENTER EXTENSION (2009) Design and supervision of all builders works and electromechanical installations. | ~3.800.000 |

OLYMPIC AIRWAYS DATA CENTRE, ATHENS, GREECE



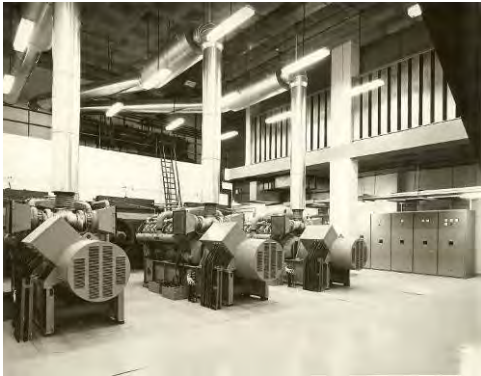
Client: OLYMPIC AIRWAYS SA FLIGHT SIMULATOR IN ATHENS
Project Value: ~ \$ 800.000 (MEP services - at construction period)
Description: MEP services detail design and construction supervision for the dedicated data centre.
Services period: 1992

OLYMPIC AIRWAYS FLIGHT SIMULATORS BUILDING, CHANIA – CRETE, GREECE



Client: OLYMPIC AIRWAYS SA, PSIKTIKI ELLADOS SA-General Contractors
Project Value: ~ \$ 3.000.000 (MEP services - at construction period)
Description: MEP services detail design and construction supervision for two special installations building 2
Services period: 1982, 1993

OLYMPIC AIRWAYS COMPUTER CENTER, ATHENS, GREECE



Client: OLYMPIC AIRWAYS SA
Project Value: \$ 3.000.000 (MEP services - at construction period)
Description: MEP services detail design and construction supervision for two special installations building 2
Services period: 1982

"MEDITERRANEAN NAUTILUS GREECE" DATA CENTER, ATHENS, GREECE

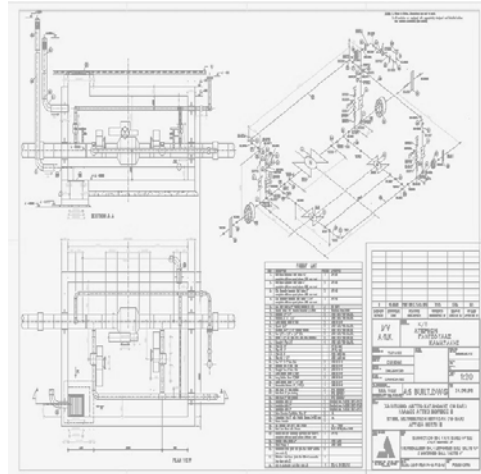


Client: Mediterranean Nautilus Greece SA
Project Value: ~ \$ 3.800.000 (MEP services - at construction period)
Description: MEP services detail design, structural reinforcements design and construction supervision for the extension of a dedicated telecommunications (fibre optics) and data (disaster, recovery, collocation etc.) centre.
Services period: 2009-2010

“DEMKRITOS” NATIONAL NUCLEAR RESEARCH CENTRE, ATHENS, GREECE



Client: Demokritos National Nuclear Research Centre
Project Value: ~ \$ 3.600.000 (MEP services - at construction period)
Description: MEP services design and construction supervision for the electronics laboratory and design of the research reactor's cooling system and ancillaries for power increase to 5MW
Services period: 1970-1971



| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|--|--|
| * PATRAS, NATIONAL SPORTS CENTRE, PATRAS, GREECE (1970) Design of water supply, drainage and sewage collection and disposal systems, power supply and telecommunication systems | 2.200.000 |
| * BASIC BIOLOGICAL RESEARCH CENTRE, VARI, ATHENS, GREECE, (1970) Design and construction supervision of water supply system | 200.000 |
| * IXIA-RHODES SEWERAGE SYSTEM, RHODES, GREECE (1971) Design of sewage collection, central treatment and disposal system for the whole tourist (Hotel) area | 2.000.000 |
| * INFRASTRUCTURE WORKS FOR THE MUNICIPAL CENTRAL VEGETABLE MARKET, THESSALONIKI, GREECE (1972) Design of water supply and distribution, sewage collection, treatment and disposal systems, power supply and telecommunication networks | 1.200.000 |
| * MILITARY CAMP AND TEST FIELD, ASSIROS, GREECE (1973) Design of water supply and distribution system, sewerage, power supply and distribution and telecommunications systems | 3.200.000 |
| * INFRASTRUCTURE WORKS FOR THE MUNICIPAL VEGETABLE MARKET PATRAS, GREECE (1974) Design of water supply and distribution, sewage collection and disposal, power supply and telecommunication system | 800.000 |
| * INFRASTRUCTURE WORKS FOR THE HOUSING PROJECT No 3 (EAST) - RIYADH, S.ARABIA (1980) Design and construction supervision of water supply and distribution, sewage treatment plant, irrigation system, power supply and distribution, street lighting and telephone ducts and manholes | 6.000.000 |
| * WATER SUPPLY SYSTEM, LARISSA, GREECE (1979) Design of Central Pumping Stations | 2.000.000 |
| * SOLAR POWER STATION, ALMERIA, SPAIN (1981) Participation in the preliminary and final design of the 500kW solar power system, using reflective parabolic Collectors | ~20.000.000 |

- * INFRASTRUCTURE WORKS FOR DAMMAM SHIP REPAIR YARD DAMMAM, S.ARABIA (1982)
Design of water treatment, sewage treatment, power supply, telecommunications system, street lighting, water and sewage pumping stations **20.000.000**

- * VARIOUS INFRASTRUCTURE SYSTEMS OF TOURIST AREAS, GREECE (1971-1972)
For Karathona - Nafplion, Agh.Apostoli-Crete etc. **1.000.000**

- * INFRASTRUCTURE WORKS FOR THE NORTH SITRA INDUSTRIAL AREA, BAHRAIN (1981)
Design and construction supervision of water supply and distribution, sewage collection, sewage treatment plant and street lighting **15.500.000**

- * INFRASTRUCTURE WORKS FOR THE ARAB SHIP REPAIR YARD (ASRY), BAHRAIN, (1992)
Design and construction supervision of all on-shore pipelines, utilities and other electrical and mechanical services to support 2 Nos. floating dry-docks (200000 and 500000 DWT)

- * ARABIAN GULF OIL Co.(AGOCO), GHANFOODA, LIBYA (1996)
Layout design for an above-ground fire-fighting network at the Ghanfooda Camp of AGOCO (steel pipes). Definition of sleepers and anchors. Surge and stress analysis. Recommendations for surge alleviation facilities
Client: J&P Overseas, General Contractors **375.000**

- * HERONISSOS (CRETE) IRRIGATION PROJECT (1998)
Large scale irrigation works by reuse of 12000m³ per day of treated effluent from the local Water Pollution Control Centre. Preliminary and detailed design. Work involved design and dimensioning of 2Nos. water reservoirs total capacity over 3000m³
Contractor: GNOMON SA **1.550.000**

- * HERONISSOS (CRETE) SEWARAGE PROJECT (1998)
Integrated master plan for the sewerage of the municipalities of Hersonissos, Limenas, Piskopiano and Koutouloufari, east of Heraklion, Crete. Drainage area served 21km² approx. Project involves 5Nos. sewage pump stations and 2km foul water rising mains
Contractor: GNOMON SA **1.780.000**

- * MORNOS AQUADUCT, REPAIRS AT THE THIVAE CHANNEL EYDAP (1997)
Tender design and detailed implementation proposals for a scheme of mobile and provisional pump-works, barriers, reservoirs and pipelines, necessary for by-passing several channel sections to be repaired. Design flow 9.5m³/sec
Contractor: ZEUS SA General Contractors **10.000.000**

| | |
|--|-------------------|
| <p>* VOLOS WATER AUTHORITY (ΔΕΥΑΜΒ), SARAΚINOS MINOR HYDROPOWER STATION (1998) Preliminary and detailed design of water intake tower, 20"penstock 1.6km long, and power-house(750kW) Turbine supplier : HydroWest, Seattle USA Contractor: J/V ERGONET-DAGRES</p> | 1.000.000 |
| <p>* PYRGOS GENERAL REGIONAL HOSPITAL (1998) DEPANOM SA. Detailed design of integrated permanent ground water drainage network, surface water management systems and road-works design Contractor: J/V GNOMON-IMEC</p> | 1.900.000 |
| <p>* NATURAL GAS PROJECT (DEPA), GREECE (1996-1998) Detailed design audit/approval and construction supervision of 33km Medium Pressure Natural Gas network at Inofyta- Schimatari district. Main lines involved 10" and 14", 19bar steel pipes to ASME B31.8 Code Contractor: ZEUS SA General Contractors</p> | 6.350.000 |
| <p>* NATURAL GAS PROJECT (DEPA), GREECE (1998-1999) Detailed design audit/approval and construction supervision of 12km Medium Pressure Natural Gas network at Athens North "B" (Aigaleo, Peristeri, Petroupolis, Kamatero districts). Main line involved 14", 19bar steel pipes to ASME B31.8 Code Client: DEPA SA Contractor: J/V ATERMON-GANTZOULAS-KAMATAKIS</p> | 3.050.000 |
| <p>* CAVO SIDERO, GREECE (2001-todate) Planning & Preliminary Design of all Infrastructure Networks (water supply, irrigation, sewerage, water pollution control, desalination, telecommunications, power distribution) for the Integrated Tourism Development at Cavo Sidero, Lasithi Total area 2200Ha, aggregate capacity 7000 beds Developer: LOYALWARD Ltd (UK)</p> | 25.000.000 |
| <p>* INFRASTRUCTURE WORKS FOR THE "BLUE CITY – Phase 1" DEVELOPMENT, OMAN Participation in the design of infrastructure networks and MEP building installations in various sections of the project. Project in suspension and under revision.</p> | 25.000.000 |

**INFRASTRUCTURE WORKS FOR THE DAMMAM SHIP REPAIR YARD,
DAMMAM, SAUDI ARABIA**



Client: ARCHIRODON SA
Project Value: ~ \$ 20.000.000 (MEP services - at construction period)
Description: MEP services detail design including power supply, telecommunications, lighting, sewage pumping stations and treatment, water supply and treatment facilities, etc.
Services period: 1982

**INFRASTRUCTURE WORKS FOR THE ARAB SHIPBUILDING & REPAIR YARD
(ASRY),BAHRAIN**



Client: ASRY Co.
(MEP services - at construction period)
Description: Detail design and construction supervision of all on-shore pipeline, utilities and MEP services to support 2 floating dry docks
Services period: 1981-1982

RIYADH HOUSING PROJECT No.3 (EAST)- WATER SUPPLY, SEWERAGE AND STP, RIYAGH, SAUDI ARABIA



Client: Ministry of Housing & Public Works
Project Value: ~ \$ 6.000.000 (MEP services - at construction period)
Description: Detail design and construction supervision of water supply network and sewage treatment plant. (in cooperation)
Services period: 1977 - 1980

"KING FAISAL CORNICHE" STORMWATER OUTFALLS, MANAMA, BAHRAIN



Client: Ministry of Public Works, Energy & Water Supply
Project Value: ~ \$ 1.000.000 (MEP services - at construction period)
Description: Detail design and construction supervision of stormwater disposal facilities along a 3,5km waterfront of reclaimed coastline. (in cooperation)
Services period: 1987

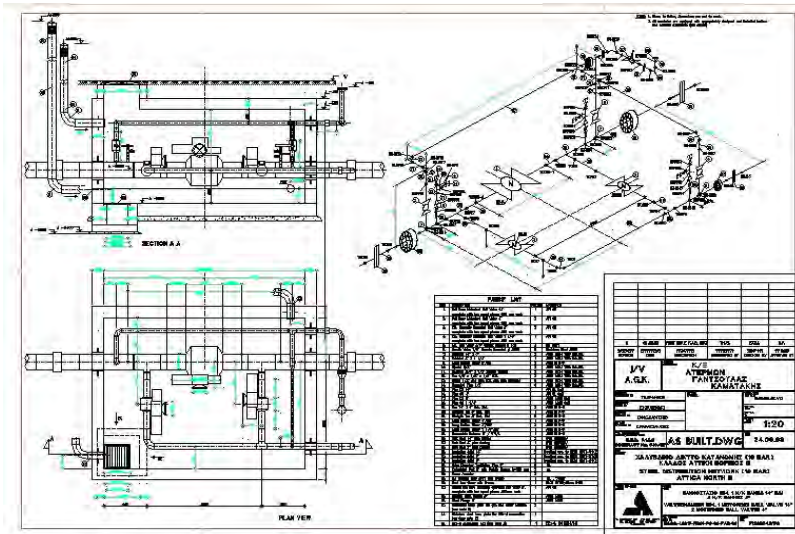
NORTH SITRA INDUSTRIAL AREA, BAHRAIN

Client: Ministry of Public Works, Energy & Water Supply
Project Value: ~ \$ 10.000.000 (MEP services - at construction period)
Description: Detail design and construction supervision of water supply network, sewerage and STP. (in cooperation)
Services period: 1982

GREAT MANMADE RIVER, LIBYA

Client: J&P Overseas Ltd
Project Value: ~ \$ 4.000.000 (MEP services - at construction period)
Description: Detail design of 2 irrigation pump stations (Sirt & Sulluq) and 64km of pressure mains and laterals to irrigate 1650ha of reclaimed land.
Services period: 1992

NATURAL GAS PROJECT OF GREECE

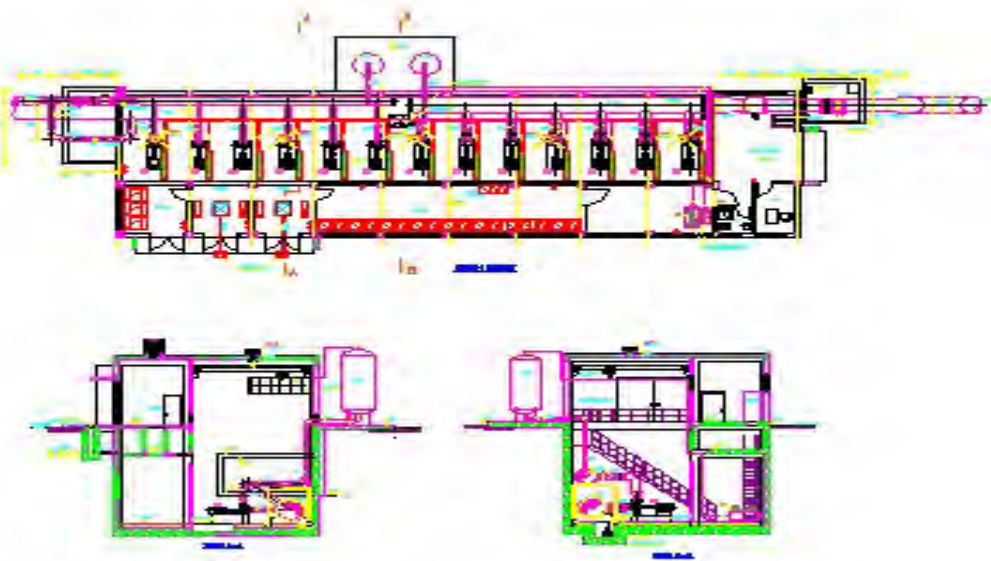


Client: Public Natural Gas Supply Company (DEPA) SA
Project Value: ~ \$ 10.000.000 (MEP services - at construction period)
Description: Design audit and construction supervision services for the Medium Pressure (19 bar) Transmission Networks:

- Inofyta-Schimatari sector, 33km 10" and 14" pipeline and valve stations
- Athens "North B" sector, 12km 10" and 14" pipeline and valve stations
- Numerous industrial connections via Pressure Reducing and Metering Stations.

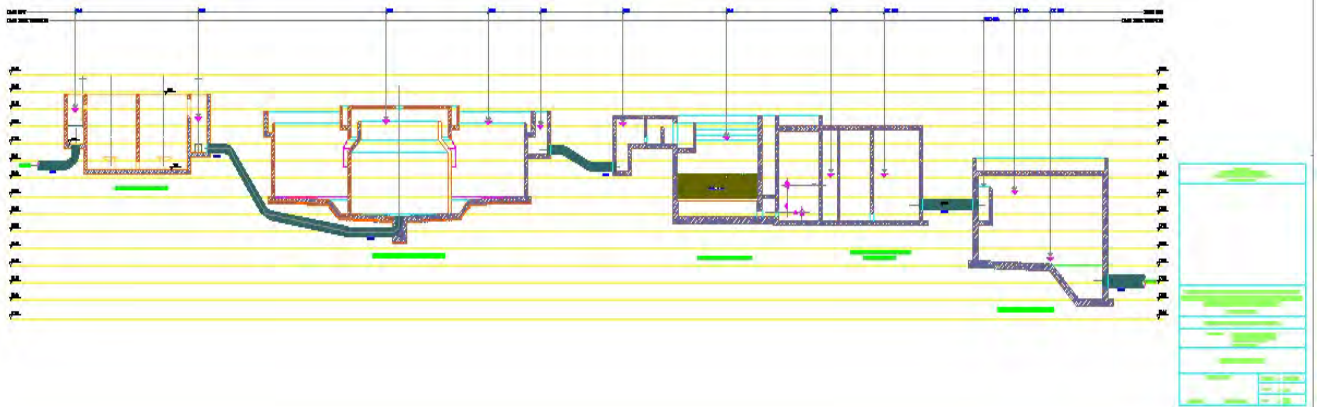
Services period: 1996-2000

PETA-KOMBOTI IRRIGATION SCHEME, EPIRUS, GREECE



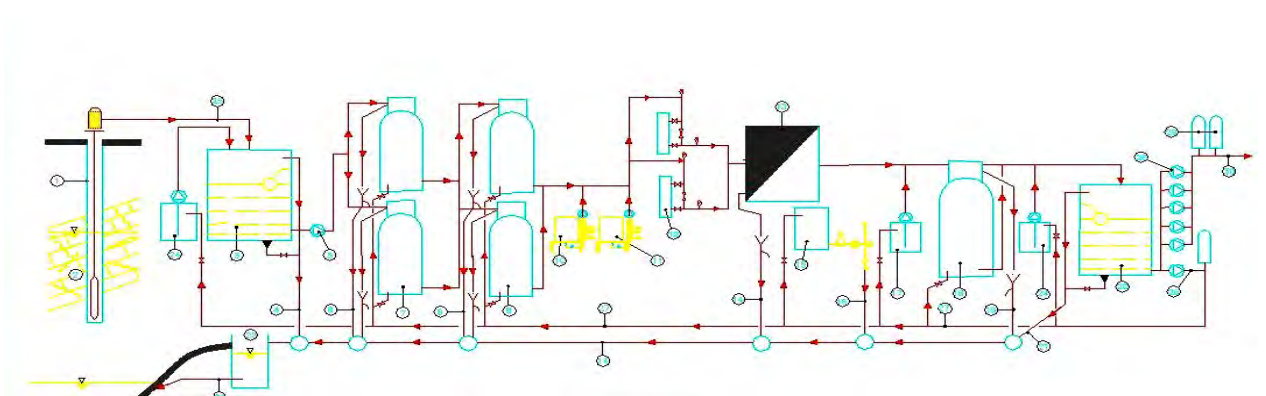
Client: Ministry of Public Works
Project Value: ~ \$ 2.600.000 (MEP services - at construction period)
Description: Basic and detail design of 6 large pump stations (5800m³/hr), including surge analysis and alleviation facilities, piping design, specifications and tender documents.
Services period: 1997-1999

CITY OF PATRAS WATER SUPPLY FROM PIROS & PARAPIROS RIVERS, PATRAS, GREECE



Client: Ministry of Public Works
Project Value: ~ \$ 6.000.000 (MEP services - at construction period)
Description: Planning, preliminary and detail design of intake and flow control facilities, MEP services, water filtration and pumping facilities.
Services period: 1998, 2003

INFRASTRUCTURE WORKS FOR "CAVO SIDERO" INTEGRATED TOURISM DEVELOPMENT, CRETE, GREECE



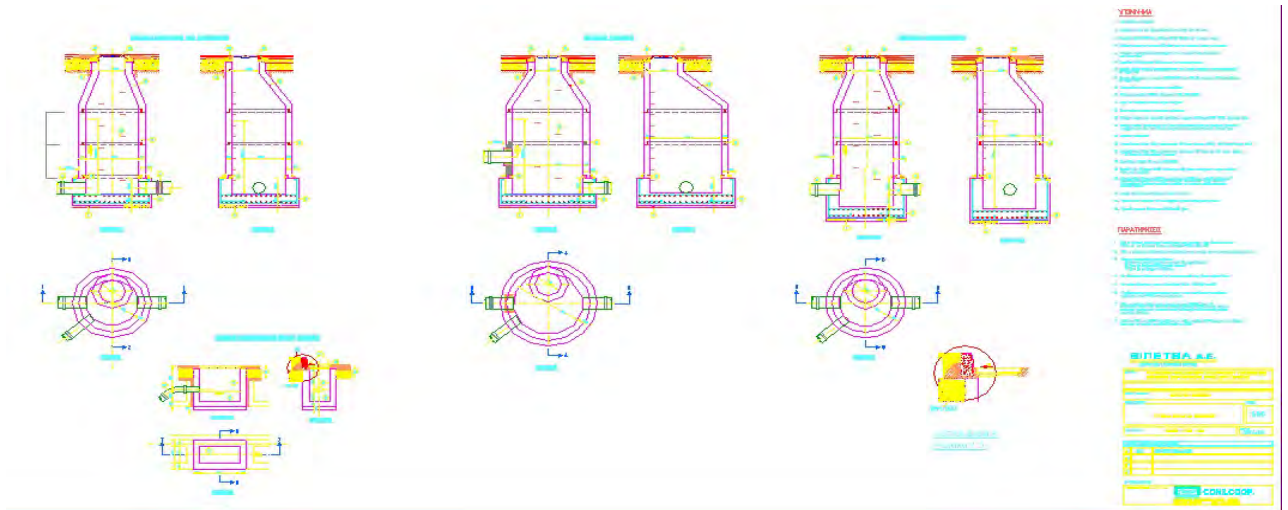
Client: LOYALWARD Ltd, UK
Project Value: ~ \$ 25.000.000 (MEP services - at construction period)
Description: Planning & preliminary design of all infrastructure networks (incl. Water supply, irrigation, sewerage, water pollution control, desalination, telecommunications, power distribution, etc) for the large scale integrated tourism development in the Lasithi area of Crete.
Total development area: 2200ha, Aggregate planned hotel capacity: 7000 beds
Project cancelled
Services period: 2002

**INFRASTRUCTURE WORKS FOR THE "BLUE CITY – Phase 1" DEVELOPMENT,
OMAN**



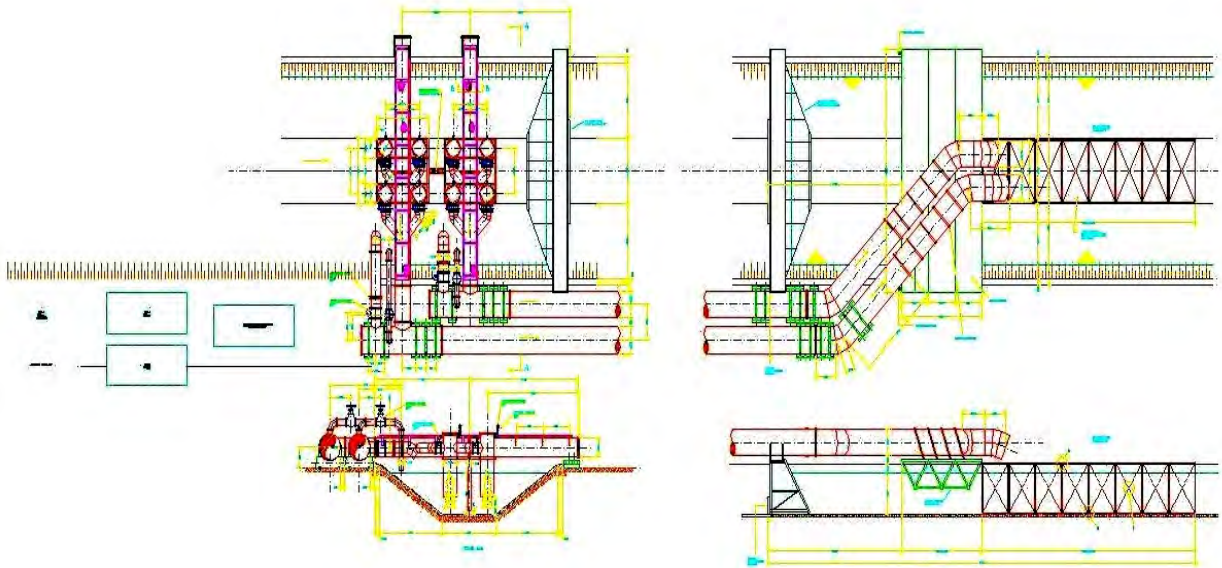
Client: AECO Development LLC
Project Value: ~ \$ 25.000.000
Description: Participation in the design of infrastructure networks and MEP building installations in various sections of the project.
Project in suspension and under revision.
Services period: 2007-2010

HERONISSOS MUNICIPALITY SEWERAGE SCHEME, HERONISSOS, GREECE



Client: Municipality of Heronissos, Crete
Project Value: ~ \$ 2.050.000 (MEP services - at construction period)
Description: Planning and detail design of 8,3km of sewer trunks and 3 sewage pump stations
Services period: 1998

MORNOS AQUADUCT REPAIRS (THIVAE CHANNEL), GREECE



Client: ZEUS SA
Project Value: ~ \$ 10.000.000 (MEP services - at construction period)
Description: Tender design and detailed implementation proposals for a scheme of mobile and provisional pump-works and barriers, reservoirs and pipelines, necessary for by-passing several channel sections to be repaired. Design flow $9,5\text{m}^3/\text{sec}$
Services period: 1998



Transportation

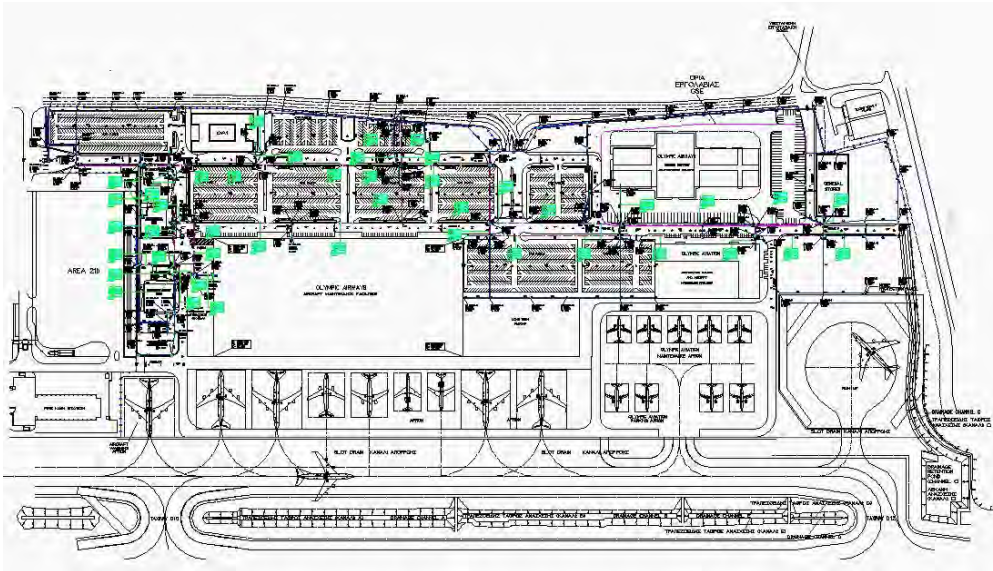
| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|---|--|
| * CHIOS AIRPORT, AIRFIELD LIGHTING, CHIOS, GREECE (1972) Design of airfield lighting and power supply and distribution system | 1.100.000 |
| * DOMESTIC DEPARTURES BUILDING EXTENSION FOR OLYMPIC AIRWAYS, ATHENS, GREECE (1980) Design of the air conditioning system | 400.000 |
| * NEW ATHENS INTERNATIONAL AIRPORT, SPATA ATHENS, GREECE (1982) Preliminary and tender design of the MEP and infrastructure facilities. J/V GREDECO and NACO | 153.000.000 |
| * SKIATHOS NEW AIR TERMINAL, SKIATHOS, GREECE (1981) Design of all electrical and mechanical installations | 1.000.000 |
| * OLYMPIC AIRWAYS, HOME BASE, NEW ATHENS AIRPORT, SPATA, GREECE(2000) Design & supervision of infrastructure networks, communication building, fire water pump stations and energy centre | ~17.000.000 |
| * NEW KASTELLI INTERNATIONAL AIRPORT, KASTELLI, HERACLION, CRETE, GREECE (2009) Consulting services and preliminary and tender design of the MEP and infrastructure facilities for the new 9.200.000 passengers per annum capacity airport | 370.000.000 |
| * KAKIA SKALA ROAD & RAILWAY TUNNELS, ATTIKA, GREECE (1991/1998/2003) (FIVE TWIN TUNNELS) Detailed design of all electrical and mechanical installations | 15.000.000 |
| * "ROAD TUNNELS JV" In Joint Venture with other major engineering consulting firms, advisers to the Greek Ministry of Environment, Planning & Public Works for a number of important transportation tunnels | Term Contract |
| * MALLIACOS ROAD TUNNEL, GREECE (1997) Advisers to the Greek Ministry of Environment, Planning and Public Works. In collaboration with DENCO SA, preparation of Tender Documents for the "design and construct" project of the 3km long undersea road tunnel | 21.000.000 |

| | |
|--|-------------------|
| * DODONI ROAD TUNNEL, GREECE (1997) Consultants to "EGNATIA ODOS SA" Design of all electrical and mechanical services pertinent to the 3.1km long twin two lane road tunnel | 8.200.000 |
| * PATRAS-ATHENS-THESSALONIKI-EVZONI HIGHWAY, GREECE (1991-1997) Client: Ministry of Environment, Planning & Public Works Kakia Skala through to Korinthos sections - Motorway, road tunnels and rail-track complete design of all electrical and mechanical infrastructure services | 4.900.000 |
| * KALAMATA MILITARY AIRPORT (2002) New fuel supply pipeline and fuel storage reservoirs with auxiliary facilities. Client Ministry of Defence, Airforce Projects Directorate | Classified |
| * KAMMENA VOURLA ROAD TUNNELS GREECE (2001/2003) (SIX TWIN TUNNELS) | 18.000.000 |
| * DODONI ROAD TUNNELS, EGNATIA ODOS, GREECE (1997) (in cooperation) Detailed design of all electrical and mechanical installations | 17.000.000 |
| * ROAD TUNNELS OF SECTION 5.2-5.3, EGNATIA ODOS, GREECE (1998/1999) (SIX TWIN TUNNELS) Detailed design of all electrical and mechanical installations | 11.000.000 |
| * ROAD TUNNELS S2&S3 OF SECTION 1.2.3 OF EGNATIA ODOS, GREECE (1998/1999) (TWO TWIN TUNNELS) Detailed design of all electrical and mechanical installations | 7.500.000 |
| * AGIA KYRIAKI ROAD TUNNEL GREECE (2002) | 3.500.000 |
| * Final design & Tender documents of the E&M installations for the following tunnels as partners in the "ODOSIRAGES" joint venture: | |
| - ROAD TUNNELS OF EGNATIA ODOS SECTION PERISTERI - ANILIO (1995) (SIX TWIN TUNNELS) | 2.500.000 |
| - ROAD TUNNELS OF PATRA RING ROAD (1995) (TREE TWIN TUNNELS) | 3.100.000 |
| - TYMFRISTOS ROAD TUNNEL(1996) (ONE TWIN TUNNEL) | 3.000.000 |
| - PROF. ILIAS - AGRINIO ROAD TUNNEL(1999) | 2.200.000 |
| - RAPSOMATIS ROAD TUNNEL(1999) | 3.500.000 |
| - GROPA ROAD TUNNELS(2000) | 3.100.000 |
| - KARAKOLITHOS ROAD TUNNEL(2000) | 3.100.000 |

-STREET LIGHTING & INFRASTRUCTURE
NETWORKS DESIGN FOR THE URBAN
"CORNICHE" ROAD, Municipality of DUBAI (1979)

146.750

OLYMPIC AIRWAYS HOMEBASE IN THE NEW ATHENS INTERNATIONAL AIRPORT, SPATA, ATHENS, GREECE



Client: Olympic Airways SA
Project Budget: ~ \$ 17.000.000 (MEP services –of construction period)
Description: Consulting services, preliminary and detail design and supervision consulting for all MEP services and infrastructure networks for the new homebase of OA in the new Athens International Airport, including main/central fire fighting station and network, energy centre and distribution, main communications building.
Services period: 2000 - 2004

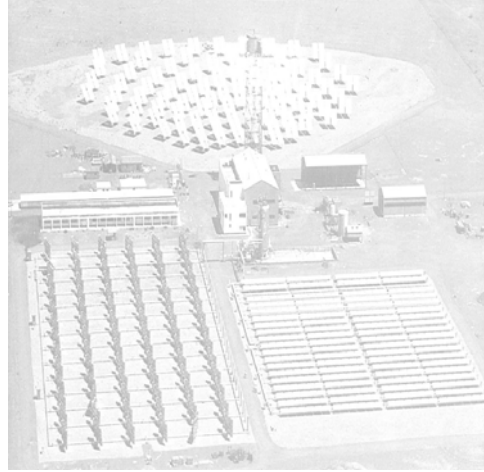
KALAMATA MILITARY AIRPORT FUEL SUPPLY & STORAGE SYSTEM, KALAMATA, GREECE

Client: Greek Ministry of Defence, Air Force Projects Directorate
Project Value: classified
Description: Final design of the new fuel supply pipelines system and fuel storage and auxiliary facilities.
Services period: 2002

MEP DESIGNS FOR NUMEROUS HIGHWAY SECTIONS AND ROAD TUNNELS



- Clients:** Ministry of Transportation and various General Contractors, in Greece, Cyprus & GCC.
- Project value:** Aggregate value of projects designed in excess of \$280.000.000 (MEP services – at time of construction)
- Description:** Variety of services, ranging from consulting and concept design to detailed design and construction supervision, in relation to MEP services and infrastructures for highway sections and tunnels, as well as for railroad tunnels.
- Longest tunnel designed: 4.400m
- Services period:** 1971 – 2012. Project was cancelled and awarded to others in 1996.



Energy Systems

| PROJECT | Approx. cost of MEP installations (at design period) in US \$ |
|--|--|
| <p>* ENERGY SYSTEMS & DESIGN for COMMUNITIES Pilot application on the Frangocastello Housing, SFAKIA CRETE, GREECE (1978) Client : The National Energy Council Development of a methodology for the integration of energy systems in the design of new communities and preliminary design of a prototype community</p> | 20.000.000 |
| <p>* DAMMAM MEDIUM WAVE RADIO STATION, POWER STATION, DAMMAM, S. ARABIA (1979) Design of the 5MW power production & distribution system</p> | 5.000.000 |
| <p>* DESIGN OF A SOLAR POWER STATION, ALMERIA, SPAIN (1981) Client : The International Energy Association Participation in the preliminary and final design of the Solar Power system (500kW) using reflective parabolic collectors</p> | 20.000.000 |
| <p>* GREEK ALUMINUM INDUSTRY, THISVI, BOEOTIA (1988) Feasibility Study for the co-production of electric (30MW) and thermal energy. Load analysis, assessment of alternative energy systems, selection of best option</p> | |
| <p>* ENERGY CONSUMPTION INDEXES STUDY FOR GREECE (1986) For the Fraunhofer Institute (Fed. German Republic) Part of a wider programme funded by the EEC, where TEKEM covered the chapter dealing with Greece</p> | |
| <p>* ENERGY SYSTEM PRELIMINARY DESIGN FOR THE NEW ATHENS, AIRPORT (Spata 1981) Client : Athens Airport Co. SA The study covered time-related loads estimate per energy requirements sector and the planning and design of all transport and distribution networks in the wider area of the New Airport</p> | 25.500.000 |
| <p>* COMBINED ENERGY SYSTEM, KOPAIS, BOEOTIA, GREECE (1984) Feasibility study for a combined cycle energy system Client : The Agricultural University of Athens Investigation and assessment of alternative energy co-production systems in conjunction with the production and use of methane produced from the biological treatment of animal wastes (livestock breeding station in Kopaida)</p> | |

- * FEASIBILITY STUDY FOR ENERGY CO-PRODUCTION LIBERIA (1990)
Client : "PHOEBE" Hospital, Liberia
The objective of the study was to cover the totality of electrical and thermal loads (hot water, steam) of the Hospital from a co-production system of electrical & thermal energy, applying diesel engines and generators

- * HVAC HEAT RECOVERY SYSTEMS
Design and/or construction supervision of a number of heat recovery systems air-to-air, water-to-water, air-to-water and water-to-air in Heating, Ventilation and Air Conditioning systems, such as :
 - the "St Andrew" University Hospital in Patras,
 - the Regional University Hospital in Larissa, etc.

- * COOLING AND STEAM HEAT RECOVERY SYSTEMS
Design and/or construction supervision of a number of heat recovery systems water-to-water and steam-to-water in cooling or steam installations such as :
 - The "MITERA" maternity Hospital, Athens
 - The "MEDICAL CENTRE" Hospital, Athens
 - The "INTERCONTINENTAL" Hotel, Athens, etc.

- * WASTE ENERGY HEAT RECOVERY SYSTEMS
Design and/or construction supervision of heat recovery installations from industrial exhaust gases, such as :
 - The enamel installation exhaust gases of PITSOS SA electric appliances industry, Greece

- * CENTRAL A/C INSTALLATIONS-HEAT PUMPS
Design and construction supervision of air conditioning installations applying central heat-pump systems air-to-water such as :
 - the DENCO Co. building in Maroussi, near Athens
 - the SANDOZ Co. office building in Athens etc.

- * BUILDINGS THERMAL BEHAVIOUR
Large number of studies and design work on the thermal behaviour of buildings of various uses (residential, hospitals, recreational, hotels, offices, industrial and commercial buildings, etc.) in relation to their orientation, solar exposure, insulation etc. for optimising energy consumption and capital cost

- * ENERGY MANAGEMENT SYSTEMS
Design and/or construction supervision of electrical load management installations in various buildings (peak-load and power factor control etc.).

- * SOLAR ENERGY AND SOLAR COLLECTORS PERFORMANCE
Special solar radiation study covering the performance of all types of solar collectors (fixed, uni-directional and 3-directional tracking collectors). The study was commissioned in 1976 for Athens and Crete Regions and covered also the assessment of water heating systems efficiency for domestic use or heating purposes.
- * POLICY STUDY FOR RATIONAL USE AND ENERGY SAVING, GREECE (1992)
The study was effected on behalf of the Greek Centre for Renewable Energy Sources (CRES) and aimed to formulating a policy in Greece for the rational use of energy as well as energy saving. Study co-financed by DGXVII of the EEC
- * SMALL-SCALE HYDROELECTRIC POWER STATION EVRITANIA, GREECE (1991)
Preliminary and detailed electrical and mechanical design of the 120kW station and preparation of tender documents **300.000**
- * CHANIA POWER STATION, CRETE, GREECE (1992)
Gas and steam turbine combined block 132.4MW. Detailed design and co-ordination of services and utilities, within the station area (in association with ABB, Switzerland) **700.000**
- * ASRY EXTENSION, POWER SUPPLY & DISTRIBUTION ARAB SHIP REPAIR YARD (ASRY), BAHRAIN, 1991
Works included the detailed design and construction supervision of 7430kVA power substation, 3x1250kVA frequency converters and distribution network to 2 Nos. floating dry-docks and key facilities **8.500.000**
- * CHANIA POWER STATION, CRETE, GREECE (1996)
2x64.3MW Gas Turbine Open Cycle. Detailed design and co-ordination of services and utilities within the station area (in collaboration with ANSALDO, Italy) **850.000**
- * STRATEGY FOR ENERGY CONSERVATION IN THE HOUSING SECTOR OF ESTONIA (1996)
Participation as energy experts to EXERGIA SA in the proposal for the Energy Conservation in the Housing Sector of Estonia under the EU PHARE Program **Term Contract**

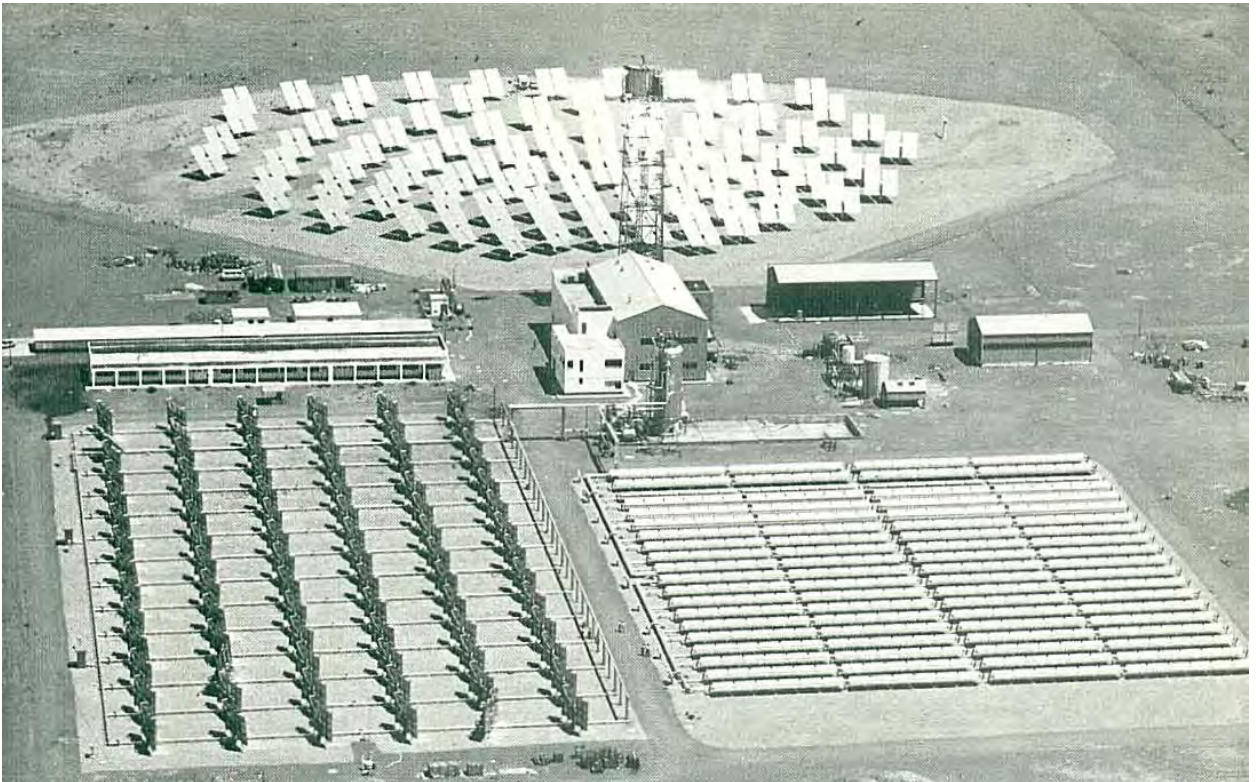
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| * DEMONSTRATION PROJECT FOR ENERGY EFFICIENCY IN BUILDINGS , BULGARIA (1997) Participation as energy experts to EXERGIA SA in the design of a demonstration project of a multi-dwelling building under the EU PHARE Program | Term Contract |
| * SMALL-SCALE HYDROELECTRIC POWER STATION SARAKINOS, VOLOS, GREECE (1999) Preliminary and detailed design of headworks, penstoke, electrical and mechanical installations of the 750kW station | 1.166.000 |
| * SMALL-SCALE HYDROELECTRIC POWER STATION PERISTERI, IOANNINA, GREECE (1999) Preliminary and detailed design of headworks, penstoke, electrical and mechanical installations of the 1,5MW station | 1.500.000(est.) |
| *ATHERINOLACCOS Power plant, CRETE, GREECE (2002-todate) 1x85,2 MW Diesel Station. Detailed design of road works and storm water drainage within the station area. Contractor BWSC (Denmark) Mitsui Engineering (Japan) & Athena S.A. (Greece) | 2.200.000 |
| * LAVRIO POWER STATION (PPC), 5 th UNIT EXTENSION. (2004-2005) 180MW Combined cycle power plant. Detailed design and construction drawings of roadworks, industrial effluents drainage and storm sewers. Client METKA SA (in collaboration with DENCO SA) | 1.800.000 |
| * AGHIOS NICOLAOS POWER STATION (ADG) (2005-2006) Units 1, 2 & 3 3X120MW Steam & Gas turbines. Detailed design and construction drawings of roadworks, And storm sewers. Client METKA SA (in collaboration with DENCO SA) | 1.950.000 |

DAMMAM MEDIUM WAVE RADIO STATION, DAMMAM, SAUDI ARABIA



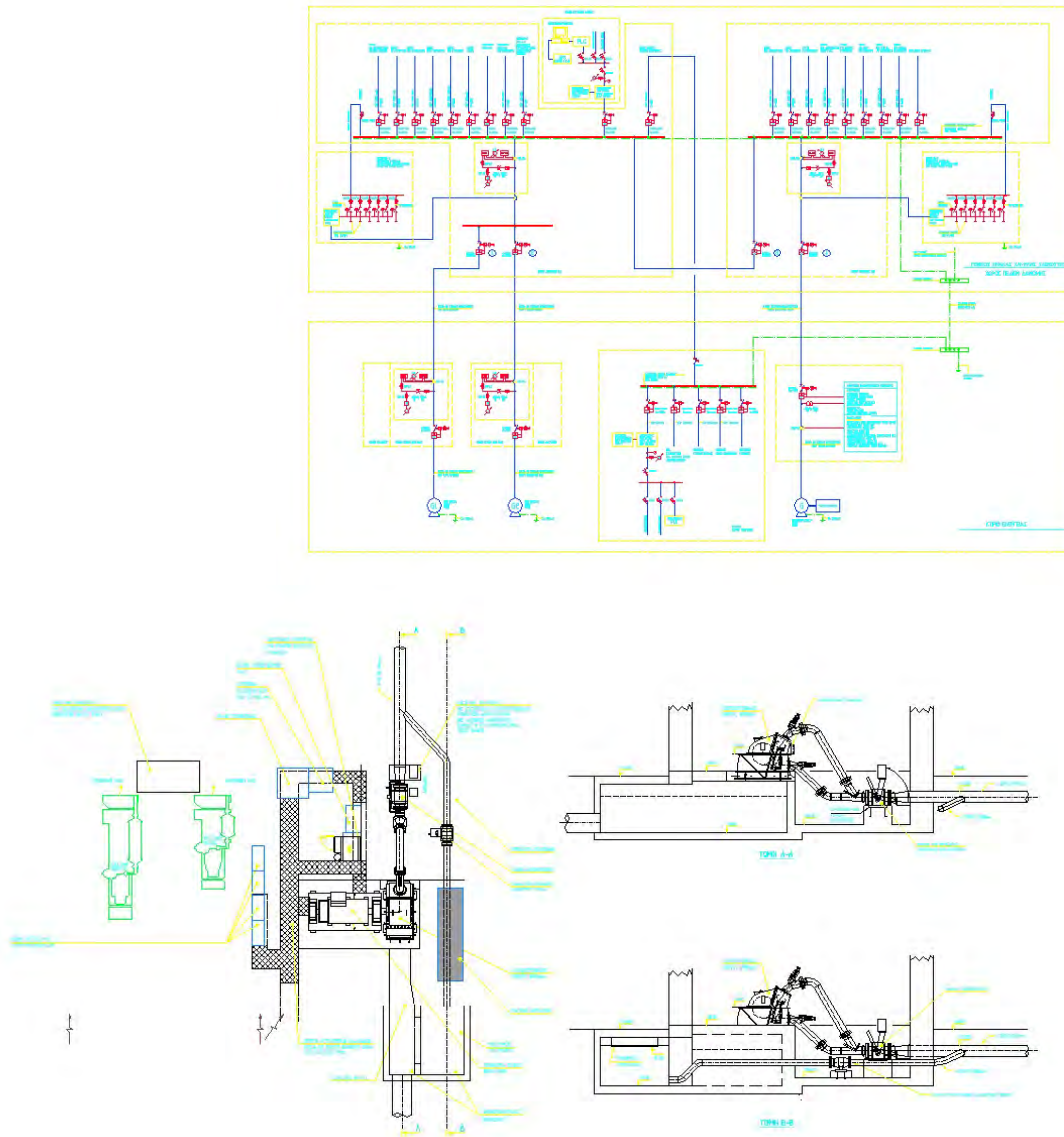
Project Value: approx. \$5.000.000 (MEP services - at construction period)
Description: Design of the 5MW electric power production and distribution system
Services period: 1979

SOLAR POWER STATION, ALMERIA, SPAIN



Client: The International Energy Association
Project Value: approx. \$20.000.000
Description: Participation in the preliminary and final design of the 500kW solar power system, using reflective parabolic collectors.
Services period: 1981

VARIOUS SMALL HYDROELECTRIC POWER STATIONS, GREECE



Client: Public Power Corporation and various private clients
Description: Preliminary and final electromechanical systems design of stations
Services period: 1991-1999