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Company Overview
MYTILINEOS
Overview

- Leading global industrial company, with a strong presence in several key sectors of the global economies
- 3,380 employees
- € 1,899 million in turnover
- € 1 billion investments in energy
- Listed on the Athens Stock Exchange (ASE)
- Diversified activities in Mining & Metallurgy, Power & Gas, Solar & Storage Development and Sustainable Engineering Solutions

Source: MYTILINEOS Financial Results FY 2020
MYTILINEOS
Business Units

- Largest vertically integrated producer of refined alumina and primary aluminium in South-East Europe
- World class assets including bauxite mines, alumina refinery and aluminium smelter

- Largest domestic independent electricity producer
- Leading private retail electricity supplier
- Largest independent natural gas/LNG importer, consumer & supplier in Greece

- Leading global developer, EPC and O&M contractor for the full range of utility-scale solar and energy storage applications
- Current pipeline of projects exceeding 2GW in the 5 continents

- Major contractor specialized in turn-key energy projects, infrastructure and environmental / new energy solutions
- Strong international presence
- Full end-to-end solutions from development through to long-term O&M
CHP
334MW
The CHP plant provides the required steam to Aluminium of Greece for the alumina production

AGIOS NIKOLAOS CCGT
444MW
- Highest efficiency thermal plant in the country
- Commercial Operation in June 2011

KORINTHOS POWER CCGT
437MW
- Highest efficiency air-cooled plant in the country
- Commercial Operation in April 2012 JV with Motor Oil Corinth Refinery
MYTILINEOS
Key Financials

Source: Company information, February 2021
MYTILINEOS SUSTAINABLE ENGINEERING SOLUTIONS (METKA)
With demand for electricity growing faster than total energy demand, power should account for 30% of end consumption by 2040, according to the forecasts of the International Energy Agency (IEA).

To meet the increasing demand for renewable power generation responsibly, we have adapted our strategy to focus more on low-carbon electricity activities, particularly in regions where renewable energy represents a particularly appropriate and viable solution to growing energy demand.

Keeping up with our new business model, we provide the full range of power solutions, from gas-fired and renewable power generation to energy storage, whilst being fully committed to support the global target towards “clean” energy.
Core Business Segments

- Power & Grid Solutions
- Infrastructure Projects
- Environmental Solutions
- New Energy Solutions
Core Business Segments
Power & Grid Solutions

- Complete range of skills in project management, engineering, procurement, construction and plant commissioning.

- Over 50 years experience in the sector, recognized for its reliability, flexibility and strong execution track-record.

- Delivery of complete power generation plants on turn-key basis, using different types of power generation equipment, to support the needs of power utilities.

- Strong expertise in LNG, Gas and Industrials, as well as in Transmission and Distribution projects.
Core Business Segments

Infrastructure Projects

- Capability and capacity to undertake large-scale complex civil infrastructure and industrial projects.

- Classified in the highest category of construction contractors for major public works projects in Greece.

- Main activities include: railways, certified buildings, road and bridge construction, civil works for energy projects (power plants), among others.

- Pursuing major private concession projects.
Core Business Segments
Environmental Solutions

• METKA provides innovative and competitive environmental solutions worldwide for water, liquid and solid waste.

• Recognized as an environmental pioneer in the circular economy, it has a strategic interest in the international environmental business sector for liquid and solid waste treatment, as an EPC contractor as well as a technology provider for specific solutions.

• Through the subsidiary ZEOLOGIC, we have developed a series of competitive patented solutions based on nanotechnology which effectively address a wide variety of water, sludge, and liquid waste issues.
Core Business Segments

New Energy Solutions

Hybrid Systems
Building on our extensive experience in thermal power, we are well placed to provide tailor made hybrid power generation solutions (stand-alone or integrated with battery-based energy storage) to match specific project needs.

Energy Efficiency
Our portfolio of services includes: street lighting rehabilitation and O&M for municipalities & districts, energy efficiency projects for public/private buildings, net metering or virtual net-metering solutions above 0.5MW.

Smart Energy Solutions
Our solutions promote the efficient use of energy coupled with the latest developments in information technology, including: efficient electricity production, smart metering systems, micro-grid applications, as well as the complete portfolio of smart city solutions.

Power to X
Our current investment in Power-to-X conversion technologies, in combination with our vast experience in conventional fuel and renewable power generation, enables us to be well-positioned to drive this transition and become one of the pioneers in creating a greener chain of electricity production and usage.
PETROM BRAZI (OMV)

- Location: Ploiesti, Romania
- Consortium with GE
- 860 MW combined cycle power plant
- Configuration 2+2+1, a natural gas fired, with auxiliary installations and interconnections inside the refinery
Selected Power Plant Projects

Turkey

- Location: Samsun, Turkey
- METKA as main contractor
- **870 MW** combined cycle power plant
- Configuration 2 x GE 9FB single shaft
- Direct sea cooling

- Location: Denizli, Turkey
- METKA as main contractor
- **775 MW** combined cycle power plant
- Configuration 2-2-1 with Siemens SGT5-4000F
- Air cooled condenser
Selected Power Plant Projects

**Jordan**

- **Location: Al Zarqa**
- **146 MW** Natural Gas/LDO Fired Open Cycle Power Plant, with 1x GTB3E2 Alstom gas turbine and generator unit
- Project assigned to METKA on **fast-track basis**
- Completed **ahead of schedule, in just 8 months**

- **Location: Al Zarqa**
- **143 MW** combined cycle project
- Expansion to an existing power plant, by addition of a combined cycle plant of Alstom technology to the existing open cycle gas turbines
Selected Power Plant Projects
Algeria

SOCIÉTÉ ALGÉRIENNE DE PRODUCTION DE L’ELECTRICITÉ «SPE SPA»

- Location: Hassi R’mel
- Consortium: GE – METKA
- 2 separately awarded contracts for open cycle gas turbine power plants, total approx. 1GW:
  - **Hassi R’Mel I** – 2 x GE 9FA gas turbines, total output 368 MW at site conditions
  - **Hassi R’Mel II** – 3 x GE 9FA gas turbines, total output 590 MW at site conditions
Selected Power Plant Projects
Algeria

SOCIÉTÉ ALGÉRIENNE DE PRODUCTION DE L’ÉLECTRICITÉ «SPE SPA»

- Location: 8 different locations in Algeria
- Consortium: GE - METKA
- 3 separate contracts for fast-track mobile gas turbine power plants, commissioned in 2012, 2013 and 2014
- **38 mobile gas turbines** - total capacity approx. 1GW (ISO conditions)
- Trailer-mounted, **fully mobile balance of plant (BOP)** solution
Selected Power Plant Projects
Slovenia

JAVNO PODJETJE ENERGETIKA LJUBLJANA

- Location: Ljubljana, Slovenia

- Combined Heat and Power (CHP) plant with total electrical power output of 110 MW, substituting to a large extent coal with natural gas (reducing coal consumption by 70%)

- 2 Siemens gas turbines and 2 heat recovery steam generators with pertaining equipment

- Dual fuel (natural gas or extra light fuel oil)
Selected Power Plant Projects

Ghana

- **Location:** Takoradi
- **Scope** includes design, engineering, procurement, construction, commissioning and testing of an up to 192MW dual fired combined cycle power plant
- **Project awarded to** GE-METKA consortium
- **Final construction stage**

- **AMANDI ENERGY**

- **Location:** Tema
- **The scope of the project includes** the engineering, procurement, construction and commissioning of a **200 MW fast-track LPG power project** in combined cycle (CCGT) configuration
- **Construction in progress**

- **BRIDGE POWER**
Selected Power Plant Projects

Nigeria

- Location: Port Harcourt
- **227 MW** power project with 8 units of TM 2500 mobile turbine generators operated with natural gas.
- Project awarded to METKA in consortium with GE

- Location: Nigeria (4 federal universities)
- Hybrid power plants to electrify 4 Nigerian universities, **7.5 MW** in total
- Scope includes solar PV, battery storage and diesel gensets, as well as the required control systems
Selected Power Plant Projects
Libya & Iraq

TOBRUK CCPP (LIBYA)

- 740 MW Dual Fuel Power Plant (natural gas or distillate fuel oil)
- 4 X GE gas turbines (GT13E2) in open cycle configuration
- All associated balance of plant equipment and a 220 kV substation

SHAT AL BASRA (IRAQ)

- 1250 MW Open Cycle Power Plant
- 10 x GE triple fuel gas turbines (supplied by the Iraqi Ministry of Electricity)
- Operates with heavy fuel oil (HFO), natural gas or light distillate oil (LDO)
Selected Power Plant Projects
Aluminium of Greece (Co-generation)

Aluminium of Greece
- Lump-sum EPC contract
- Natural gas fired co-generation plant (316MW plus 252MWth) in 2+2+1 configuration
  - 2 x GE Frame 9E gas turbines
  - 1 Siemens steam turbine
  - Alstom HRSGs
Selected Power Plant Projects
IPP Ag. Nikolaos

- METKA as main contractor
- **430 MW** combined cycle
- GE 9FB single shaft

- **New 826MW CCPP** currently under construction:
  - The station will be operated by a **GE H-Class** gas turbine with a **thermal efficiency of more than 63%**, rendering the plant as the most efficient across Europe.
  - With the addition of this plant, the total production capacity of MYTILINEOS will exceed **2000 MW** (excluding RES capacity).
Selected Power Plant Projects

Greece

- **PPC LAVRIO UNIT V**
  - METKA as main contractor
  - **378MW** combined cycle plant
  - Single shaft GE STAG 109 FA
  - HRSG Alstom

- **KORINTHOS POWER**
  - METKA as main contractor
  - **437 MW** combined cycle plant
  - GE 9FB single shaft

- **PPC ALIVERI**
  - METKA as main contractor
  - **417MW** combined cycle plant
  - Alstom GT26 single shaft
Selected Power Plant Projects

Fast-Track Execution

- METKA has successfully carried out several projects to provide fast-track simple cycle power generation capacity, with particular emphasis on aero-derivative type gas turbines, having established itself as international market leader on this type of application.

- References include:

  - **Algeria (8 Sites)**
    - 38 MOBILE GAS TURBINES
    - TOTAL CAPACITY APPROX. 1GW

  - **Ghana (Takoradi)**
    - 10 MOBILE GAS TURBINES
    - TOTAL CAPACITY 250MW

  - **Greece (Greek Islands)**
    - 2 X TURBOMACH TITAN 130 GAS TURBINES (13MW EACH)
LNG, Gas & Industrials

Building on our strong track record and references in relevant projects, as well as METKA's high technical/executional capability, we focus primarily on 2 types of projects:

• Natural gas infrastructure projects (e.g., LNG terminals, FSRUs, distribution pipelines and compression stations)

• Industrial plants such as aluminum, cement, desalination, and ammonia plants
Transmission & Distribution

- Within the electricity transmission sector, METKA provides complete turn-key solutions for all types of electrical substations, including Gas Insulated Substations (GIS) type, Air Insulated Substations (AIS) type, as well as Hybrids and Mobile configurations.

- Our electrical substations solutions cover the full range of operating voltages, from medium to ultra-high voltage levels, as well as transmission grid supporting technologies such as: power regulation or step-down auto/transformers, phase shift transformers, reactor strings, capacitor banks and static VAR compensators.

- With more than 50 years of experience, METKA is a reliable partner for transmission network owners, system operators and local communities around the world.
Infrastructure Sector
Infrastructure Projects

Reference Projects - Railways

- Kiato-Rododafni, Greece

- The project involves the construction of a **new double-track railway line**, approximately 71km long, in the section from the new railway station of Kiato to Rododafni, equipped with signalling, telecommanding and telecommunications.

- The aim of the project is to modernize a long stretch of the existing rail network, beyond Kiato, and ensure interoperability (uniform track gauge) with the rail network of Athens.

- The scope includes:
  - Infrastructure of the new railway line
  - Track works along the entire new railway line
  - Installation of modern signalling ETCS Level 1 and telecommunications

- Contract value of €225m.
METKA is committed to build not only impressive buildings but also buildings that are energy efficient, healthy for their occupants to exist within and are friendly towards the environment.

A recent example is the new LEED Platinum certified office building we built for our headquarters office in Athens, Greece, which were completed according to the highest sustainable building standards and within a period of just 24 months.

**Total construction area 21,190 m²:**
- 3 underground spaces, 14,860 m²
- 346 parking spaces
- 3 floors, 6,330 m²
Infrastructure Projects
Reference Projects - Golden Hall Extension

- Location: Athens, Greece

- Architectural & Electromechanical Works, for the extension section of the shopping centre Golden Hall, with total surface area of 29,268.37 m².

- The scope of the project also included an aquarium which was built with new special concrete technique, due to the construction’s particularity and the geometric precision required by the project’s infrastructure, as well as the Athens Olympic Museum.

- Construction period: October-December 2019
Infrastructure Sector

Reference Projects - Olympos Naousa Hotel

- Location: Thessaloniki, Greece
- Restauration-Extension Works & Façade Retaining of the Historical Building / Luxury Hotel OLYMPOS NAOUSA (total surface of 2,400 m²)
- Respecting the eclectic elements of the existing building is a priority. The building had a major role in the everyday life of the city of Thessaloniki, and its prominence through a contemporary approach is of outmost importance
- Currently in progress
Infrastructure Projects

Reference Projects - Thriasio Logistics Center

• Location: Thriasio Plain, Western Attica, Greece

• The scope of the project includes the design and construction of the first logistics park in Greece, including the development of warehouses and supporting buildings, covering a total surface of 235,000 m²

• In addition to the construction of building facilities, a road and a railway network will be constructed within the park, aimed at supplying the warehouses. This combination will be the first of its kind in the Greek logistics market

• Currently in progress
Infrastructure Projects
Reference Projects – Aktio Amvrakia Motorway

- Location: Aktio, Epirus Region, Greece
- The scope of the project includes the construction works for 32km of the Aktio-Amvrakia motorway.
- More specifically, the project includes the construction of four grade separated intersections, one at-grade intersection, as well as the construction of a service road network with total length of 23km.
- Project awarded in December 2020.
Environmental Solutions
Environmental Solutions
Water, Liquid Waste and Sludge Treatment & Utilisation

Through innovative technologies and high-quality EPC and Operation & Maintenance (O&M) services, METKA provides the most suitable treatment solutions for every wastewater and liquid waste project.

Furthermore, through the subsidiary ZEOLOGIC, it has developed a series of innovative products to support its patented solutions such as: nanocoagulant mediums, nanoflocculants, organoflocculant compounds, and metallic oxidation nanoparticles. These enhance significantly the plant’s treatment performance and overall efficiency.

The solutions provided are suitable for urban, industrial and agricultural waste and include the construction of new or the upgrade and optimization of existing facilities.
Environmental Solutions
Water, Liquid Waste and Sludge Treatment & Utilisation

Competitive and technically sound solutions for a wide spectrum of applications such as: Municipal Wastewater Treatment, Industrial & Hazardous Wastewater Treatment, Ship-Generated Liquid Waste Treatment (slops, ballast waster, bilge water) Potable Water Plants, Heavily Contaminated Sludge Treatment, Air Pollutants Control residues Treatment, Landfill Leachate Treatment, Environmental Restoration.

Heavily Contaminated Sludge Treatment

Air Pollutants Control Residues Treatment

Water Treatment

Environmental Restoration
Regarding solid waste treatment and utilization, METKA's focus is primarily set on the following:

- **Energy Recovery Facilities (ERF) from:**
  - Municipal Solid Waste (MSW)
  - C&I Waste
  - RDF / SRF
  - Biomass
- **Anaerobic Digestion (AD) applications**
- **Landfill Gas (LFG) applications**
- **Sorting and Mechanical-Biological Treatment (MBT) facilities of MSW**

METKA offers comprehensive solutions for these types of projects and can provide complete O&M services for all the above-mentioned facilities.
Selected References
Protos – Waste to Energy Project

- Location: Cheshire, UK
- Energy Recovery Facility (ERF), two-lines plant with a common water-steam cycle. Nominally processing 400,000 tonnes p.a. of waste with net power output of approx. 45 MW. Steam characteristics at boiler outlet, temperature: 450°C, pressure: 75 bar (a).
- Primarily sourced from the residual fraction of Municipal Solid Waste (MSW) and Commercial & Industrial (C&I) waste.
- Lead Contractor of the consortium between MYTILINEOS S.A. & Standardkessel Baumgarte GmbH.
- Principal Designer and Principal Contractor.
- Commercial operation scheduled for 2024.
Selected References

Off-Grid/Hybrid Solutions

Electrification of Nigerian Universities

- Location: Anambra/ Delta / Kano / Sokoto, Nigeria

- The scope of the project includes full EPC services for four universities, including power generation plants, street lighting and training centres, as well as operation and maintenance services.

- All four universities are powered by hybrid power plants utilizing renewable energy sources integrated with energy storage and diesel generation as back-up, enabling reliable power supply for the universities totally autonomously from the grid.

- In total, 7.5MW of off-grid hybrid power has been installed.
Selected References
Off-Grid/Hybrid Solutions

Vatopaidi Monastery Hybrid Power Plant & Micro-Grid
- Location: Mount Athos peninsula, Greece
- The Holy Monastery of Vatopaidi, as the whole peninsula of Mount Athos, is not connected to the national grid and from the electrical point-of-view operates as an “island”.
- The autonomous micro-grid system implemented at Vatopaidi is at the leading edge of micro-grid applications, and includes the following:
  - The construction of the energy center building 400m away from the Monastery.
  - The construction of the central underground engine building near the Monastery.
  - The construction of the PV park 2km away from energy center building.
Selected References
Energy Efficiency Solutions - Street Lighting

- Location: Municipality of Volos, Greece

- METKA offers state-of-the-art lighting solutions for the energy upgrade of public areas in the Greek municipality of Volos

- Conventional street lights (short life cycle, erratic luminosity and highly energy consuming), will be replaced by a higher quality lighting system, with improved visible luminous efficacy and a better ambiance in the urban environment

- Energy savings up to 55% are estimated, reducing the electricity cost and the Municipality’s energy footprint

- Currently in progress
Power to X

• Power-to-X is a number of electricity conversion, energy storage, and reconversion pathways that use surplus electric power, typically during periods where fluctuating renewable energy generation exceeds load. Power-to-X conversion technologies allow for the decoupling of power from the electricity sector for use in other sectors (such as transport or chemicals etc).

• We are well positioned to drive this transition, utilizing our vast experience in the power sector, including conventional fuel and renewables power generation, while investing in Power-to-X conversion technologies, thus being one of the pioneers in creating a new, greener chain of electricity production and usage.
Mining Solutions
Hybrid Power Plant Concept

- Building on our long-standing experience in the Mining, Energy and EPC/Construction sectors, we have developed a complete range of power generation and related solutions for the Mining and Industrial sectors.

- We ensure reliable high-quality power supply eliminating any disruption to processing plant operations, minimizing the energy costs over the lifetime of the project as well as exposure to volatile cost factors such as liquid fuels.

- With a wealth of experience operating in difficult/remote sites, we understand the constraints of unreliable power supply, quality and cost, as well as the supply logistics introducing additional risks in servicing remote locations.
International Presence
Our Projects Around the World

GREECE
Headquarters
All Activities

ALGERIA
Energy Sector
Power Plants

GHANA
Energy Sector
Power Plants

NIGERIA
Energy Sector
Power Plants

JORDAN
Energy Sector
Power Plants

IRAQ
Energy Sector
Power Plants

TURKEY
Power Plants
Marine Works

ROMANIA
Energy Sector
Power Plants

SLOVENIA
Energy Sector
Power Plants

UK
Environmental Projects

LIBYA
Energy Sector
Power Plants

PAKISTAN
Energy Sector
Power Plants
METKA People

780 employees
18 nationalities

87% of the workforce from local communities
For METKA, the prevention of workplace injuries, especially in construction sites, is ABSOLUTELY TOP PRIORITY.

Our goal is therefore to maintain a high health & safety performance, reflected in the values of the respective indicators across all our facilities, by implementing action plans and specific programmes designed to protect and improve the quality of life of our employees.

The Health & Safety of our employees in all work places is our utmost priority and daily concern. We work constantly to achieve the only acceptable target of ZERO ACCIDENTS & ZERO OCCUPATIONAL DISEASES.
As a responsible corporate citizen, committed to sustainable business practices across its operations, METKA - as a MYTILINEOS business unit - has taken the following initiatives, in cooperation with both national and international institutions:

- UN Sustainable Developments Goals (SDGs)
- UN Global Compact
- Global Reporting Initiative (GRI)
- Adoption of a “Code of Business Conduct”
- Adoption of a “Suppliers & Business Partners Code of Conduct”

Fully aware of the importance of environmental protection, METKA also carefully adopts the newest environmental technologies and practices while putting extra effort for the responsible management of natural resources, energy and waste outputs.
Final Remarks
Expertise & Capabilities

Our team is our power
The company has the full range of technical resources and the required experience to undertake the most complex and demanding projects.

Capacity and Flexibility
METKA has the critical mass to successfully manage major projects, whilst maintaining the essential flexibility to respond quickly and effectively to unexpected events.

On-time and on-budget
METKA’s track record in successfully delivering projects on-time and on-budget has enabled its sustained, profitable growth over the last decades.

Competitive solutions
Being independent, but with strong relationships with major equipment suppliers, METKA has the ability to offer the most appropriate technology for any project.

Leader in Project Execution
Excellent project management skills, combined with a wide range of functional expertise in areas such as design engineering, technical procurement, logistics, site construction, quality management, and plant commissioning, enable METKA to consistently deliver complex and demanding projects to the highest technological standards.
Innovation & Technical Ability

METKA is working on some of the most exciting and challenging power generation and infrastructure projects, bringing its flair for innovation and technical ability to deliver complex energy projects globally.

“Best Utilities Project” and “Best Financial Structure” Awards for the Bridge Power Project in Ghana at the 2019 Partnership Awards in London
The project was rewarded both for the innovative financing structure and for its significance in addressing the energy needs of the wider region.

“Best Off-Grid Project” Award for the Electrification of Nigerian Universities at the ARE Awards 2019 in Cote d’Ivoire
The mini-grid project included the installation of 9.3MWP of solar panels and 5,760 battery cells, allowing 4 Nigerian universities to become 100% autonomous from the grid.

Gold Award for the Civil Engineering Works at the Amandi CCPP in Ghana at the Concrete Awards 2019 in Athens
The project was particularly demanding in terms of concrete selection and execution of concrete works due to the extreme geological and climatic conditions of the area.

Gold Award for the LEED Platinum Certified Office Building in Greece at the Concrete Awards 2019 in Athens
The project was completed in just 24 months and has received #LEED Platinum USGBC International certification for environmentally friendly and sustainable buildings.
Growth Strategies

- Diversify revenues in terms of activities (energy – infrastructure) and geographical markets.
- Provide innovative solutions for renewable energy projects, as well as for emerging opportunities in off-grid and hybrid power.
- Continue developing partnerships with accelerate project development – leverage financial capacity to make projects happen.
Conclusion

Why us?

Project Execution Track-Record
- Excellent project management skills
- Wide range of functional expertise

Manpower Capabilities
- Long-standing experience and highly specialized personnel
- Continuous focus on high technology products and applications

Technical Expertise
Classified in the highest category of construction contractors for major public works projects in Greece

Financial Strength
- Strong financial position to make projects happen
- Ability to expand business activities into new regional markets

Flexibility & Capacity
- Flexibility to deal quickly and effectively with unexpected events
- Capability and capacity to undertake high value-added infrastructure projects.
Contact

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