

– 5TH HAEE –

ENERGY TRANSITION

SYMPOSIUM

CONFERENCE AGENDA

HYBRID EVENT

30 SEP - 2 OCT, 2020

ATHENS, GREECE
THEOXENIA PALACE HOTEL



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CONFERENCE PROGRAMME

DAY 1 Virtual Room I

Wednesday, September 30, 2020

09.15-09.25 WELCOME ADDRESS

Spiros Papaefthimiou, Chairman, Hellenic Association for Energy Economics (HAEE); Assoc. Professor in Energy Management Systems and Energy Efficiency Technologies, Technical University of Crete

09.25-09.40 OPENING KEYNOTE ADDRESS

Kostis Hatzidakis, Minister of Environment and Energy, Hellenic Republic (TBC)

09.40-10.20 OPENING REMARKS

Sokratis Famellos, Member of Parliament Thessaloniki B, Director of Environment and Energy Sector, SYRIZA

Giorgos Arvanitidis, Member of Parliament Thessaloniki B, Director of Environment and Energy Sector, KIN.AL.

10.20-10.45 **Andreas Shiamishis**, CEO, Hellenic Petroleum S.A.
IN DISCUSSION WITH (IN GREEK LANGUAGE):
Thodoris Panagoulis, Editor in Chief, energypress.gr

10.45-10.50 Break

10.50-12.25 EU GREEN DEAL AND THE LANDSCAPE OF THE GREEN ENERGY MARKETS *powered by:* National Bank of Greece

Georgios Gkiaouris, Associate Director, Regional Head, Energy EMEA, EBRD (digital)

Pantelis Capros, Professor of Energy Economics, NTUA (digital)

Kostas Andriosopoulos, Professor of Energy Economics, ESCP Business School

Katherine Poseidon, Associate, EMEA Energy Transition, Bloomberg New Energy Finance

Moderator: **Manolis Souliotis**, Associate Professor, Department of Chemical Engineering, University of Western Macedonia; HAEE's BoD Member (digital)

12.25-12.30 Break

12.30-14.00 TARGET MODEL: THE NEW ERA OF THE GREEK ENERGY MARKETS

George Ioannou, CEO, Hellenic Energy Exchange S.A.

Victor Grigorescu, Former Minister of Energy, Romania (digital)

Konstantin Konstantinov, CEO, Independent Bulgarian Energy Exchange

Septimiu Rusu, Development Manager, Romanian Commodities Exchange (digital)

Miloš Mladenović, Managing Director, SEEPEX (digital)

Moderator: **Nikos Frydas**, Principal-Energy, Grant Thornton Advisory

14.00-14.05 Break

14.05-15.40 THE FUTURE OF RES: AGGREGATORS AND OPPORTUNITIES

Yiannis Yiarentis, President and CEO, DAPEEP

Konstantinos Tomaras, General Director, Spyropoulos S.A.

Vassilis Spiliotopoulos, Managing Director Greece, Cyprus, Siemens Gamesa Renewables Energy S.A.

Panagiotis Papastamatiou, Director, ENTEKA; CEO, Hellenic Wind Energy Association

Elias Eliadis, Director Investment Promotion & Facilitation, Enterprise Greece (digital)

Giannis Panagis, President, POSPIEF

*Moderator: **Filippos Ioannidis**, Energy Market Analyst; PhD Candidate,
Aristotle University of Thessaloniki*

15.40-15.45 Break

15.45-17.35 THE EASTERN MEDITERRANEAN ENERGY PROJECTS AND SECURITY ISSUES

powered by: Atlantic Council

Keynote address

Joshua Volz, Acting Director, Office of Europe and Eurasia, U.S. Department of Energy (digital)

Richard Morningstar, Founding Director and Chairman, Global Energy Center at the Atlantic Council; Former US Ambassador to the Rep. of Azerbaijan, Former US Ambassador to the EU (digital)

David Livingston, Senior Analyst, Eurasia Group; Senior Fellow, Global Energy Center, Atlantic Council (digital)

Theodoros Tsakiris, Assoc. Professor of Geopolitics and Energy Policy, University of Nicosia's Business School

Aristofanis Stefatos, CEO, Hellenic Hydrocarbon Resources Management

*Moderator: **Katerina Sokou**, Nonresident Senior Fellow, Future Europe Initiative, Atlantic Council (digital)*

17.35-17.40 Break

17.40-18.25 THE FUTURE OF GREEN SHIPPING

Arthur Richier, Senior Freight Analyst, Vortexa (digital)

Charlotte Bucchioni, Tankers Editor, S&P Global Platts (digital)

*Moderator: **Panagiotis Mitrou**, Global Gas Segment Manager, Lloyd's Register Marine & Offshore*

18.25-18.30 Break

18.30-19.45 TOWARDS A GREEN ENERGY TRANSITION

Ricardo Gorini, Senior Programme Officer - Remap, IRENA (digital)

Ulrich Laumanns, Project Manager, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)

Menelaos Ydreos, Executive Director, Energy Vantage Inc. (digital)

Marina Economidou, Scientific Officer, Institute of Energy and Transport, Joint Research Centre, European Commission (digital)

*Moderator: **Michael Jefferson**, Frm. senior editor of 'Energy Policy'; Affiliate Professor at ESCP Business School; Senior Fellow, Department of Economics and International Studies, University of Buckingham; Frm. Chief Economist, Shell (digital)*

DAY 2 – Virtual Room I

Thursday, October 1, 2020

09.00-10.25 RES: THE GREEK POTENTIAL

Keynote address

Adonis Georgiadis, Minister of Development and Investments, Hellenic Republic

Patrizia Falcinelli, Italian Ambassador to the Hellenic Republic

Patrick Maisonnave, French Ambassador to the Hellenic Republic

Éric Scotto, Chairman and Co-Founder, Akuo Energy

Aristotelis Chantavas, Head of Europe area, Enel Green Power; President, SolarPower Europe

Moderator: **Dimitris Pefanis**, Director, insider.gr

10.25-10.30 Break

10.30-11.15 REGULATORY AUTHORITIES

Athanasios Dagoumas, President, Regulatory Authority for Energy

Aurora Rossodivita, Senior expert of European regulation, ARERA (digital)

Moderator: **Jean-Michel Glachant**, Director, Florence School of Regulation; Holder of the Loyola de Palacio Chair (digital)

11.15-11.20 Break

11.20-13.00 RES INVESTMENTS: BIG SCALE PROJECTS

Rabia Ferroukhi, Director, Knowledge, Policy and Finance Centre, IRENA (digital)

Adnan Polat, Chairman, POLAT Holding

Konstantinos Mavros, Vice-President and CEO, PPC Renewables (digital)

Loukas Lazarakis, CEO, Nostira S.A.

Tasos Athanasopoulos, President and CEO, Enerdia

Grigoris Marinakis, General Manager, Voltalia Greece

Panagiotis Doumas, Managing Partner, Alpha Plus Insurance Brokers PC

Moderator: **Haris Floudopoulos**, Journalist, capital.gr

13.00-13.05 Break

13.05-14.30 NATURAL GAS NETWORKS: THE NEW LANDSCAPE IN GREECE (IN GREEK LANGUAGE)

Leonidas Bakouras, General Manager, Gas Distribution Company Thessaloniki-Thessalia S.A.

Marios Tsakas, Public Gas Distribution Networks S.A. (digital)

Attiki Natural Gas Distribution Company S.A. Executive

Michael Thomadakis, Head of the Strategy and Development Division, Hellenic Gas Transmission System Operator

Moderator: **Thodoris Panagoulis**, Editor in Chief, energypress.gr

- 14.30-14.35 Break**
- 14.35-15.00 REPORT PRESENTATION: “THE POTENTIAL CONTRIBUTION OF NATURAL GAS TO EAST MEDITERRANEAN ECONOMY”**
powered by: International Gas Union
- Matthew Doman**, Interim Public Affairs Director, IGU (digital)
Kostas Andriosopoulos, Professor of Energy Economics, ESCP Business School
- 15.00-15.05 Break**
- 15.05-16.35 EAST MEDITERRANEAN MARKETS: REGIONAL GAS PROSPECTS AND SMALL-SCALE LNG APPLICATIONS**
powered by: Global Gas Centre
- Dan Milstein**, Director, European Regional Office U.S. Department of Energy, U.S. Embassy-Prague (digital)
Dimitris Manolis, Head, International Activities/Projects, DEPA S.A. (digital)
Symeon Kassianides, Chairman, Natural Gas Public Company, Cyprus
Marcel Kramer, Energy & Infrastructure Consultant; President, Energy Delta Institute (digital)
Kostis Sifnaios, Business Development and Project Director, GasTrade S.A.
EGAS Executive (TBA)
- Moderator:* **Naji Abi-Aad**, Advisor, Global Gas Centre
- 16.35-16.40 Break**
- 16.40-18.10 A CLIMATE NEUTRAL EU BY 2050. THE CHALLENGES FOR NATURAL GAS**
powered by: Global Gas Centre
- René Bautz**, Chairman, World Energy Council - Global Gas Centre
Jean-Marc Leroy, External Relations Senior Executive Vice President, Engie France (digital)
Anita Orban, Vice President, International Affairs, Tellurian LNG (digital)
Andrew Walker, Vice President, LNG Strategy and Communication, Cheniere (digital)
Maximilian Kuhn, Government Relations Advisor, GazProm Germania (digital)
- Moderator:* **Alex Barnes**, Advisor, Global Gas Centre

DAY 3 Virtual Room I

Friday, October 2, 2020

- 09.00-09.15 OPENING KEYNOTE ADDRESS**
- Takis Theodorikakos**, Minister of Interior, Hellenic Republic
- 09.15-10.45 CIRCULAR ECONOMY AND SMART CITIES**
powered by: Circle the Med Forum
- Keynote Address*
Konstantinos Aravossis, General Secretary of Natural Environment and Water, Ministry of Environment and Energy, Hellenic Republic (digital)

Giorgos Kremlis, President, Organizing Committee of the Circle the Med Forum; President, International "Circular Clima Institute" of the European Public Law Organization
Theodora Antonakaki, Advisor to the Governor of the Bank of Greece
Haris Doukas, Associate Professor, School of Electrical and Computer Engineering, National Technical University of Athens & Gen. Secretary of HELORS (digital)

Moderator: **Konstantinos Maragkogiannis**, Senior Advisor on Circular Economy

10.45-10.50 Break

10.50-12.30 UNTAPPING THE VALUE OF NETWORKS THROUGH PRIVATIZATION

Riccardo Lambiris, CEO, Hellenic Republic Asset Development Fund (digital)
Nikolaos Bakatselos, President, Hellenic Electricity Distribution Network Operator; President, American-Hellenic Chamber of Commerce
Ioannis Margaris, Vice-Chairman BoD ADMIE, Chief Technology Officer and General Manager, "Ariadne Interconnection"
Nicola Battilana, CEO, Hellenic Gas Transmission System Operator S.A.
Argyro Banila, Deputy Head of Structured Financing, Corporate & Investment Banking, National Bank of Greece

Moderator: **Evangelos Kyritsis**, Senior Researcher in Environment, Energy and Climate Policy, VATT Institute for Economic Research; HAEE's BoD Member (digital)

12.30-12.35 Break

12.35-14.20 ECOMOBILITY AND MICROGRIDS AT THE FOREFRONT OF GREEN DEVELOPMENT

Keynote address

Ioannis Kefalogiannis, Deputy Minister of Infrastructure and Transportation, Hellenic Republic

Dimitris Kavvouris, Chief Operating Officer, Citroën, DS Automobiles & Mazda
Arnaud Henin, Managing Director, Gommyr Power Networks (digital)
Athanasios Lazanas, Chairman and CEO, Arclif Group (digital)

Moderator: **Thanos Zarogiannis**, Electric Vehicles Charging Specialist, Advisor on Electromobility

14.20-14.25 Break

14.25-16.25 HYDROGEN, INNOVATION AND TECHNOLOGY

powered by: Energy Delta Institute

Keynote addresses

Enrique Viguera Rubio, Spanish Ambassador to the Hellenic Republic (digital)
Maria Spyraiki, Member of the European Parliament (digital)

Bert Stuij, Vice President Innovation, Energy Delta Institute (digital)
Walburga Hemetsberger, CEO, SolarPowerEurope (digital)
Maher Chebbo, Chair of the European ETIP Digital Energy Group and Digital Batteries Task Force (digital)
Pierre-Jean Cherret, Head of New Business Development & Strategic Innovation & Ventures, ITEMS International (digital)

Moderator: **Miguel Palacios**, Professor of Management, ESCP Business School; Executive Education Associate Academic Dean, Madrid Campus (digital)

16.25-16.30 **Break**

16.30-18.00 **HYBRID SYSTEMS IN ISLANDS - NEW ENERGY SOLUTIONS OPTIMISED FOR ISLANDS**

powered by: NESOI European Islands Facility

Keynote address

Konstantinos Fragogiannis, Deputy Minister for Economic Diplomacy and Openness, Ministry of Foreign Affairs, Hellenic Republic

Andrea Martinez, Deputy Managing Director, Sinloc (digital)

Dimitris Papastergiou, President, Central Union of Greek Municipalities; Mayor of Trikala (TBC)

Panagiotis Grammelis, Director, Research at the Chemical Process and Energy Resources Institute, CERTH

Spyros Economou, President of the BoD and General Director, CRES

Fereidoon Sioshansi, President, Menlo Energy Economics (digital)

Moderator: **Spiros Papaefthimiou**, Chairman, Hellenic Association for Energy Economics (HAEE); Assoc. Professor in Energy Management Systems and Energy Efficiency Technologies, Technical University of Crete

18.00-18.05 **Break**

18.05-19.30 **BOOK PRESENTATION: "THE SOUTHERN GAS CORRIDOR AND ITS IMPORTANCE FOR SOUTH-EAST EUROPE: THE NEW ERA OF ENERGY TRANSITION"**

powered by: EMC at ESCP Business School

Gulmira Rzaeva, Research Associate, Oxford Institute for Energy Studies; Founder and Managing Director, Eurasia Analytics (digital)

Olga Khakova, Associate Director for European Energy Security (digital)

Kostas Andriosopoulos, Professor of Energy Economics, ESCP Business School

Julian Bowden, Senior Visiting Research Fellow, Oxford Institute for Energy Studies (digital)

Moderator: **Mamdouh Salameh**, International Oil Economist; Visiting Professor of Energy Economics, ESCP Business School, London (digital)

19.30-19.40 **Conclusions**

End of Symposium

Concurrent Sessions

Academic Paper Presentations

DAY 2 Virtual Room II

Thursday, October 1, 2020

10.00-11.30 SUSTAINABLE INVESTMENTS - CIRCULAR ECONOMY ASPECTS

Session Chair: Konstantinos Tsagkarakis

An online platform for sustainable investment planning under environmental and economic life cycle analysis thinking: the case of PV when integrated with storage solutions

Authors: Ioannis Mamounakis, Dimitrios-Sotirios Kourkoumpas, Athanasios Natsikas, Nikolaos Nikolopoulos

Presenter: Ioannis Mamounakis

Integrating solar technologies in the circular economy concept: A life cycle perspective
Authors: Maria Milousi, Manolis Souliotis, Spiros Papaefthimiou

Presenter: Maria Milousi

Turning CO₂ emissions to CH₄ by means of green H₂ and novel catalytic materials

Authors: M. Konsolakis, S. Papaefthimiou, D. Ipsakis, M. Lykaki, S. Stefa, G. Varvoutis, G.E. Marnellos

Presenter: M. Lykaki

An Analysis of Energy in the Circular Economy Definitions: A Natural Language Processing Approach

Authors: Konstantinos P. Tsagkarakis, Boris Tanchovski, Dimitar Trajanov

Presenter: Konstantinos P. Tsagkarakis

11.30-11.40 Break

11.40-13.10 SOCIAL ISSUES - ENERGY POVERTY

Session Chair: Dimitra Koumparou

Supporting households against energy poverty using the Living Lab approach: First evidence from the STEP-IN project

Authors: Anastasios Balaskas, Ilias Doulos, Dimitris Damigos, Dimitris Kaliampakos, Nikolas Katsoulakos, Lefkothea Papada

Presenter: Nikolas Katsoulakos

Different energy sources allied towards energy transition

Authors: Paolo Carrera, Federica Furcas

Presenter: Federica Furcas

A set of innovative action plans for sustainable islanding regions and an Investment Planning Tool for development and replication

Authors: Avraam Kartalidis, Jeanne Fauquet, Benjamin Horvilleur, Apostolos Antoniadis, Christos Keramiotis, Rébecca Aron, Nikolaos Nikolopoulos

Presenter: Avraam Kartalidis

Just Energy Transition and the social sciences in Greece

Authors: Dimitra Koumparou, Efthimios Zervas

Presenter: Dimitra Koumparou

13.10-13.20 Break

13.20-14.50 ENERGY MARKETS, DECARBONISATION AND ENERGY TRANSITION

Session Chair: Iordanis Kalaitzoglou

Is climate policy effective in reducing GHG emissions? Southeast versus southwest Europe

Authors: Inês Carrilho Nunes, Margarida Catalão-Lopes

Presenter: Inês Carrilho Nunes

Capacity mechanisms in the decarbonization era: the EU law challenges for South-East European electricity markets in transition

Author: Orestis Omran, Stella Mavrommati

Presenter: Orestis Omran

The Effects of the COVID-19 Pandemic on the Global Energy Markets and Energy Resilience: The Example of HEDNO

Authors: Stratis Zacharis, Aikaterini Gkika, Alexios Tagaris, Niki Komioti

Presenter: Aikaterini Gkika

Energy transition projections of the Serbian energy sector and lessons learnt for decarbonization in the Balkans

Authors: Savvas Louzidis, Ioannis Stefanou, Nenad Jovanovic

Presenter: Ioannis Stefanou

Is the EU ETS really becoming more efficient?

Author: Iordanis Kalaitzoglou

Presenter: Iordanis Kalaitzoglou

14.50-15.00 Break

15.00-17.00 OIL AND GAS: CHALLENGES AND INVESTMENT OPPORTUNITIES

Session Chair: Filippas Ioannidis

Oil prices as a predictor for stock market returns

Authors: Andrianos Tsekrekos, Konstantinos Vasileiadis

Presenter: Konstantinos Vasileiadis

The Viability of a Mediterranean Energy Hub and the Interests of European Union and Russia: Common or Conflicted?

Authors: Antonios Stratakis, Theodore Pelagidis

Presenter: Antonios Stratakis

Global Gas and LNG Prices in 2020: How has it Coped with Recent Market Dynamics?

Authors: Sandy Singh, Mahdjouba Belaifa

Presenter: Sandy Singh

Investing in Bridging Fuels: The Unit Commitment Problem of Public vs Private Ventures

Authors: Filippos Ioannidis, Kyriaki Kosmidou, Iordanis Kalaitzoglou

Presenter: Filippos Ioannidis

A new pole for Sustainable Research and Innovation in the Eastern Mediterranean: The Institute of Petroleum Research (IPR) /Foundation for Research and Technology

Authors: Spyridon Bellas, Nikolaos Pasadakis

Presenter: Spyridon Bellas

Growing Political Opposition to Oil & Gas Development in the United States: Implications of a Ban on Hydraulic Fracturing

Authors: Lucian Pugliaresi

Presenter: Lucian Pugliaresi

Natural Gas Market Globalization Revisited

Authors: Evangelos Kyritsis, Anne Neumann

Presenter: Evangelos Kyritsis

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ENERGY TRANSITION

SYMPOSIUM

Under the auspices of:



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HELLENIC PETROLEUM

Founded in 1998, HELLENIC PETROLEUM is one of the leading energy groups in South East Europe, with activities and presence in six countries. Its shares are primarily listed on the Athens Exchange (ATHEX: ELPE) with a secondary listing on the London Stock exchange (LSE: HLPD), while its two bond issues are listed on the Luxemburg Stock Exchange.

Refining is the Group's core business, accounting for 75% of total assets, owning three of the four refineries in Greece, of total capacity of 340 kbpd, with a 65% share of the Greek wholesale oil products market.

The Group is the domestic ground fuels marketing leader, with a retail network of c.1,700 petrol stations throughout Greece as well as LPG, industrial, aviation and marine fuels and lubricants businesses. It also owns a network of over 300 petrol stations in Cyprus, Serbia, Bulgaria, Montenegro and FYROM.

The Group's E&P activities are focused in Greece in various offshore and onshore areas mainly in Western Greece and west of Crete. HELLENIC PETROLEUM is the sole petrochemicals producer in Greece with domestic market share exceeding 50% and exports c. 65% of sales. It is also active in the power sector through ELPEDISON, in renewables as well as in natural gas through 35% participation in DEPA Group.

Website: www.helpe.gr | E-mail: info@helpe.gr

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Hellenic Energy Exchange S.A. (HEnEx) is part of the Energy Exchange Group (EnEx group) and was founded on 18 June 2018 as a spin-off from the electricity market branch of LAGIE S.A.. Building upon experience gained over more than a decade, HEnEx has been designated by the Greek Regulatory Authority for Energy as the Nominated Electricity Market Operator (NEMO) and is operating the Greek day-ahead market and has also been approved by the Hellenic Capital Market Commission as an administrator of the Energy Derivatives Market of Law 4425/2016. Currently, HEnEx is working the transformation of the model of the day-ahead market, on the creation of an intraday electricity market and of a gas market. HEnEx is also responsible for organising and operating Greek environmental markets. Its subsidiary, EnEx Clearing House S.A. (EnExClear), is providing clearing and settlement services for HEnEx's spot electricity markets and for the Balancing Market of the TSO (ADMIE).

HEnEx is committed to providing high quality, transparent, and non-discriminatory services to all market participants, working towards the EU's target model and coupling its market with neighbouring countries. To that end, HEnEx has become a full member of the Price Coupling of Regions initiative.»



HEDNO: Connecting every corner of Greece through energy

HEDNO was established in 2012 after the spin-off of the Distribution Segment of PPC S.A. Today it is a 100% subsidiary of PPC S.A., but organizationally and functionally independent Company.

Through the Medium and Low Voltage networks, HEDNO delivers electricity to 7.5 million customers, while the Company manages the High Voltage networks in Attiki and in the Non-Interconnected islands. In terms of number of customers served and the total length of the network lines, 240.000 km-nearly six times the earth's perimeter- HEDNO is one of the largest Distribution Companies in the EU.

HEDNO employs about 6,000 individuals, who are allocated throughout the country.

The fundamental task of HEDNO, is to ensure the efficient operation, maintenance and development of the country's distribution network, the management of the Non-Interconnected islands electricity systems and to provide non-discriminatory access to the Network, for all energy consumers, dispersed generators and electricity suppliers.

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In the current interesting & challenging times, five experienced Insurance & Reinsurance Specialists, with an assembled experience across all levels of the (re)insurance industry, decided to join forces, in order to contribute to the development of a new culture, regarding the Integrated Service of Corporate Companies & Institutions, through Customer-centered Portfolio Risks' Analysis aiming to the design of Tailored Insurance Solutions that will provide a Global Protection of interests & Assets.

Especially, through its exclusive representation of AXIS Capital in Greece, APLUS Brokers has become the leading firm in the Greek Renewable Insurance Market, with a portfolio already exceeding 500 MW in renewable energy projects. While Greece is entering into a new era defined by the energy production transition from oil & lignite depended technologies to greener and environment friendly Renewables, APlus is constantly contributing to this transition by providing sophisticated, risk-centered solutions and client-services.



Akuo Energy is a French multinational company, based in Paris, active in the renewable energy sector worldwide. It operates in 18 countries and has been present in Greece since 2018. Akuo Energy develops, manufactures and operates RES projects with major technologies such as wind, photovoltaic, hydroelectric as well as biomass projects. So far the company has invested more than € 2.5 billion in RES projects worldwide. Its potential includes 1.3GW projects under construction, financing and construction as well as 2.13GW projects under development.

Akuo Energy's presence in Greece signals the company's strong interest in the entire Balkan region as it has already completed significant investments in the area.



[Public Power Corporation S.A.-Hellas](#)

PPC is the leading Greek electric utility, with activities ranging across electricity generation, distribution network operation and supply of electricity to end consumers. It has a total net generation capacity of 11.1 GW in Greece, including thermal, hydro and RES power plants in the mainland and in the islands. It is also the owner of the electricity distribution network with a Regulated Asset Base of c. € 3 bln, which is being operated by its subsidiary HEDNO S.A. It is the largest electricity supplier, servicing approx. 6.3 million customers across the country.

Going forward, PPC's strategic priority is the decarbonization of its business through accelerated lignite decommissioning and boosting Renewables investments, claiming a leading role in new Renewables development. In addition, PPC targets at the digitalization across all business segments. PPC was founded in 1950 and is listed on the Athens Stock Exchange since 2001. In 2019, PPC Group total revenues amounted to € 4.9 bln and total assets to € 13.6 bln, having approximately 15,100 employees.

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ENERDIA, as one of the leading technical companies in the Energy market, provides comprehensive and high quality services in Engineering, Procurement, Construction and Operation & Maintenance of RES Projects with emphasis on increasing the Return on Investment of our projects.

We are today the fastest growing company in Greek RES Market. With significant experience and a portfolio of EPC & O&M of PV stations, wind farms, and substations, we have built over 41MW in the last 5 years, while maintaining over 60MW of RES projects.



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**NATIONAL BANK
OF GREECE**

National Bank of Greece was established in 1841 and today leads one of the largest financial groups in the country with a business presence in 8 countries. Apart from NBG, the Group runs 2 commercial banks and has a workforce of 9,566 employees.

It has a wide domestic distribution network of 418 units and 1,488 ATMs and also runs a network of 82 banking units abroad (data as of 30.06.2020).

The Bank's broad customer base, respected brand name, adequate liquidity, and strong market share in deposits reflect the long-standing relationship of trust it enjoys with its clientele.

NBG plays a leading part in the energy transformation of the country, by supporting major infrastructure projects and holding a significant share in the sector financing.

The Bank is a frontline player in Greece's drive for economic growth and development, and is committed to backing the country's potential as an energy hub for the European continent.

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Founded in 2016, Nostira's strategy focuses on sustainable development, maximizing the use of natural resources, and enable society to enjoy the benefits from their long-term use. Our Strategy for Sustainable development reflects on the development of the productive structures of the economy alongside with the creation of infrastructure for a sensitive attitude towards natural environment and ecological problems. For the benefit of our customers, employees, business partners, shareholders, and society in general we take advantage of the significant opportunities created by the emergence of the new energy world and we invest in creating a sustainable energy future by increasing the use of Renewable Energy Sources.

Nostira's main goal is to achieve a leading position in the RES industry, adding value in our business by delivering an outstanding performance in key areas, such as development, construction, management, operation and maintenance of RES units. Create a strong portfolio of innovative technologies, and a strong brand in Local Greek market as well as become a partner of choice for international collaborations.



SPYROPOULOS SA

SPYROPOULOS SA is a commercial - engineering company that offers complete turn key solutions in renewable energy installations including all Development - Engineering - Procurement - Construction Services.

The company was founded in 2004 as a construction company and has a portfolio of 35 MW installed PV plants, over 150MW under Development and is currently responsible for the electromechanical maintenance over 150 MW plants as well as for panel cleaning and weed management of over 500MW.

SPYROPOULOS SA has developed a unique technical branch network in Greece, operating six branches, one in Kato Achaia which is the headquarters of the company and five more, one in Thebes, one in Ioannina, Kalamata, Xanthi, Larissa, while there is provision for further expansion of the network to other key locations in Greece.

The company is also active in the fields of construction, renovations and maintenance of commercial and industrial buildings and also in the field of electro-mechanical installations and maintenance, covering the entire range of works needed to achieve the best result.

Fysiko Aerio the Hellenic Energy Company is the energy provider with a legacy of more than 160 years.

It is the oldest gas supply company in Greece and since 2018 the company is also active at the electricity market, providing full natural gas and electric power energy services.

Investing on and utilizing modern technologies, the company is continuously upgrading the customer experience with the ultimate goal to provide a unique ecosystem through services and smart solutions for domestic and business use.

Fysiko Aerio counts more than 500 selling points across Greece and 420,000 households, 9,000 business customers, 200 industrial customers and is constantly creating innovative and personalized services by responding to its customers current needs.



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As a major player in a constantly changing world, VINCI Energies works at the crossroads of society's most important issues of today and tomorrow. Such as the growing demand for energy and transport, optimisation of industrial processes, improvement of energy performance, and changes in demand in the telecommunications sector, among others. In all of these areas, our business units know how to combine their different fields of expertise to provide solutions that meet market demands.



VINCI Energies delivers a customised solution for each individual project, from the smallest to the most complex, in order to meet our customers' challenges in terms of performance, reliability and safety in our four main areas of expertise: electricity, HVAC, mechanical engineering and information and communications technologies (ICT).

With their agile organizational structure, VINCI Energies business units work in the following four families of business activities throughout the life of the projects:

- Project design / Engineering
- Implementation / Integration
- Maintenance
- Operation / Facility management

Established in 2007, as a 100% subsidiary of the French Multinational Group VOLTALIA SA, VOLTALIA Greece is a power producer and service provider in renewable electricity production.

VOLTALIA Greece undertakes the Licensing Process as well as the Engineering, Procurement, and Construction (EPC) of Turnkey PV Projects.



Strong from its experience in the management of Solar PV Plants, acting as a power producer firstly, the Company provides Operations and Maintenance (O&M) services to third parties' PV Plants in Greece, while offering a wide range of state-of-the-art and innovative services and solutions adapted to the requirements of each client, independently of the type of construction or the capacity of each Project undertaken.

Furthermore, by combining its highly experienced and adequately trained personnel with its in depth understanding of the specialized needs and clear determination of all critical parameters linked to each investment separately, VOLTALIA Greece ensures the optimal effectiveness and performance of the while providing effective solutions for the improvement and potential Upgrade of existing Solar PV Plants by means of Repowering or Retrofitting services.

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