

PERSONAL INFORMATION

KATERINA (AIKATERINI) SARDI



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Sex Female | Date of birth 02/12/1969 | Nationality Greek

WORK EXPERIENCE

SEPTEMBER 2020-ONGOING

Head of Energy Sector, Grant Thornton Greece

AUGUST 2016-ONGOING

Freelance Consulting Services, Selected assignments

- **EU-28, DG Energy, Barriers to entry in retail energy markets (electricity and gas)** (MRC (Spain) on behalf of the European Commission (DG Energy) – March 2019-ongoing).
- **South East Europe, TAP –Commercial Readiness, critical review on the development of the Network Code of the Transadriatic Pipeline (TAP), and design of the incremental capacity process**. Support on policy formation and incentive arrangements in European gas markets, infrastructure regulation, provision of a critical review of the regulatory arrangements for new gas infrastructure in the South-East Europe and Balkan region (Baringa Partners LLP(UK), April 2017 ongoing under the auspices of SMRC TECHNIC, Greece).
- **Non-EU, World Bank Gas production, transmission and gas distribution** : Consulting services to the World Bank and the Government of Uzbekistan in preparing a “Reform Roadmap and Implementation Plan for the Uzbek Gas Sector (Corporate Solutions (UK), February 2020, ongoing)
- **Greece, GIZ, Support for the establishment of a regulatory framework for renewable gas in Greece** (GIZ, E3Modelling, April 2020-ongoing) provide support for the establishment of a regulatory framework and support scheme for the production and supply of renewable gases (including biomethane, green hydrogen and green synthetic methane) and their injection into the natural gas networks in Greece.
- **Greece, DESFA, Support to the redesign of the access services to the Revythousa LNG Terminal** (Grant Thornton (GR), May 2019-ongoing under the auspices of SMRC TECHNIC, Greece)
- **EU-28, DG Energy, “The future role of gas distribution networks and DSOs”, EC DG Energy**. The study examines the role of gas Distribution System Operators (DSOs) and distribution networks under the new environment shaped by the penetration of new gases such as biogas, hydrogen and various products from power to gas technologies, E3Modelling (Greece) in the context of the ASSET Project funded by the European Commission, July 2019-May 2020.
- **Egypt EBRD- Egypt Oil and Gas Sector Reform Policy Dialogue, Transparency and Capacity Building for Gas TSO**, Grant Thornton (GR), May 2019-ongoing under the auspices of SMRC TECHNIC, Greece.
- **South East Europe, IGI, –Support to the exemption application of IGI Poseidon to connect Italy to Greece Grant Thornton** (GR), October 2018-2019 under the auspices of SMRC TECHNIC, Greece.
- **Mediterranean Region/MedReg : Development of recommendations for Guidelines of Good practice to Gas Infrastructure in the Mediterranean region** (Grant Thornton (GR), October 2018 under the auspices of SMRC TECHNIC, Greece).
- **Greece Alignment of the Greek Tariff Methodology for the National Natural Gas Transmission System with the requirements of Commission Regulation (EU) 2017/460 of 16 March 2017 establishing a network code on harmonised transmission tariff structures for gas.** (EXERGIA (GR) – July 2018 – April 2019)
- **Greece, HAIPP, Development of a methodology for the implementation of the solidarity mechanism under Regulation 2017/1938** (Kantor Management Consultants, October 2019-February 2020)

- **North Macedonia, EBRD**, Feasibility study on the development of a distribution network in North Macedonia, North Macedonia suffers for substantial levels of airborne pollutants that substantially exceed the limits set by Directive 2001/80/EC. The study amongst other topics includes a detailed environmental assessment on the benefits of the introduction of natural gas as a fuel for domestic Heating.
- **Ukraine, Energy Community: Indicators for the quality of gas service**, Review of EU practices on quality of supply (continuity) and quality of service. The review targeted the following countries : Italy, Hungary, France, Austria, Serbia, Netherlands, Spain. Energy Community Secretariat, EU4Energy (October 2018 – February 2019).
- **Cyprus, Regulator** :Support to the Energy Regulatory Authority of Cyprus on a market design for natural gas in relation to an emerging market (Grant Thornton (GR), May 2018 ongoing under the auspices of SMRC TECHNIC, Greece).
- **Serbia, Europaid, Technical Assistance to AERS – Approximation of NRA tasks to the Third Energy Package** (LDK S.A. project co financed by the European Union and the Republic of Serbia, July 2017-December 2019, under the auspices of SMRC Technic, Greece). Involved in tasks related to quality of service monitoring, infrastructure regularion, cost benefit analysis and cross-border cost allocation. Lead task related to the handling of infrastructure exemptions.
- **Serbia, Europaid, Development of Energy Planning Capacity Project** (LDK S.A. project co financed by the European Union and the Republic of Serbia, March 2019- December 2019), technical assistance on infrastructure cost benefit analysis.
- **Turkey, World Bank Energy Sector Programme, Phase 2, Project: Energy Market Development, Guarantees of Origin System Assessment**,(EXERGIA S.A(GR), project co-financed by the European Union and the Republic of Turkey, December 2018-December 2019, under the auspices of SMRC TECHNIC, Greece). (
- **Turkey, World Bank Consulting Services for the Long-Term Energy Scenarios Capacity Building (E3Modelling (GR)** project co financed by the European Union and the World Bank, January 2018 on going)
- **EU-28, ACER, Support on the development of methodologies for the estimation of the cost of disruption of gas supply in Europe and the gas solidarity price** according to the provisions of Regulation (EU) 2017/1938. (Kantor Management Consultants (GR) for the Agency of the Cooperation of Energy Regulators - ACER, March 2018-November 2018).
- **Moldova, Energy Community, Support on drafting detailed Wholesale Electricity Market Rules, including rules for the forward market, the day-ahead and intraday markets, the balancing market, ancillary services procurement and imbalance settlement in Moldova**. (Kantor Management Consultants (GR) for the Energy Community Secretariat – March-June 2018).
- **Moldova, Energy Community, Methodology for calculation, approval and application of tariffs for the Electricity Market Operator in Moldova** (Kantor Management Consultants (GR) for the Energy Community Secretariat – April 2018 -June 2018).
- **Greece, private, Provision of regulatory advice regarding the operation of the Day-Ahead electricity market in Greece** and in the concurrently running NOME process (auctions of long-term energy contracts by analogy to the respective French system). Provision of advice on the re-shaping of the Greek electricity market (forward, day ahead, intraday, balancing) according to the Target Model. Ad-hoc consulting requests regarding the engagement of the company as a new electricity supplier. (Confidential, April 2017, March 2019, under the auspices of SMRC TECHNIC, Greece).
- **Italy, private, Development of a methodology for ex-post assessments of energy efficiency improvements in commercial buildings through detailed analysis of large datasets** (smart meters measurements). Development of a model for ex-ante predictions (WEDATA Ltd, Cyprus on behalf of an EU based client, August-November 2016).

**Business or sector** Energy regulation, regional cooperation and integration (member of international multicultural and multidiscipline teams)

JUNE 2017-DECEMBER 2017 Senior Advisor, Mediterranean Energy Regulators (MEDREG), Milan, Italy

- Supported the General Coordinator and the Secretariat in the drafting, coordination and finalisation of the 2018-2019 MEDREG grant contract.
- Provided support to the preparation of the Regulatory Outlook, a MEDREG publication reviewing the tasks and competences of Mediterranean energy regulators.
- Supported the Secretariat on everyday activities (e.g. preparation and review of documents and press-releases).
- Involved in initial preparatory works towards the establishment of a gas Med-TSO aiming to bring together the gas transmission system operators of the Mediterranean Region (North and South)

**Business or sector** Energy regulation, regional cooperation and integration (member of international multicultural and multidiscipline teams)

JANUARY 2017- DEC. 2017

#### Senior Researcher/Energy Expert, E3-Modelling, Athens, Greece

- EU-28 Project manager on tasks and projects related to the PRIMES energy system model. The PRIMES model is used to support the European Commission on several energy and climate policies including the [2016 Winter Package](#).
- EU-28 Project manager in 3 studies funded by the World Bank (WB/Technical assistance project) and the European Commission of a total budget of over 2 mil. Euros. Collaboration with the Commission, the World Bank and clients.
- Co-author of the “Islands and Energy Islands in the EU Energy System” Study ([https://asset.ec.europa.eu/wp-content/uploads/2018/04/ASSET\\_4\\_EnergyIsland.pdf](https://asset.ec.europa.eu/wp-content/uploads/2018/04/ASSET_4_EnergyIsland.pdf))
- Co-author of the “A foresight perspective of the electricity sector evolution by 2050” ([https://asset.ec.europa.eu/wp-content/uploads/2018/04/ASSET\\_Foresight\\_FinalReport.pdf](https://asset.ec.europa.eu/wp-content/uploads/2018/04/ASSET_Foresight_FinalReport.pdf))
- Quality control of reports prepared by other members of the team.
- Guidance and support to the team’s younger/less experienced staff.

**Business or sector** Energy Modelling, energy regulation and policy assessments (leader of international multicultural and multidiscipline teams)

NOVEMBER 2015-JUNE 2017

#### Key Expert for Energy, EU funded project (DG NEAR/EUROPAID) “High Quality Studies to Support the Eastern Partnership” (HiQSTEP)

Ukraine, Georgia, Azerbaijan, Armenia, Belarus and Moldova “Key Energy Expert” in the EU funded project [HiQSTEP](#), a 4 mil. Technical assistance/capacity building project running for 4 years and aiming to enhance the compatibility of legal and regulatory frameworks between EU and its Eastern Partner countries. Specific work under the Key Expert Position involved the following:

- Participated, with the European Commission, in meetings of the [Energy Platform of the Eastern Partnership](#). Acted as a facilitator towards the identification of topics of relevance to the Eastern Partner countries (technical assistance/capacity building requirements).
- Developed Terms of Reference for studies targeting the following topics: (1) solar panel potentials and their regulation in eastern partner countries including a cost benefit methodology, (2) review of concession agreements in the electricity and gas sectors in eastern partner countries and development of a concession toolbox targeting exploration, production, transmission, distribution, (3) capacity building on industrial energy efficiency in Azerbaijan and Georgia; (4) development of an e-platform to support all actions related to EU-Eastern Partner cooperation on energy. Total budget over 700,000 euros.
- Evaluated CVs and selected short-term experts
- Performed detailed review and quality control of reports prepared by external short-term experts.

**Business or sector** Energy regulation and regulatory proximity between EU and non-EU countries, quality control of studies (leader of international multicultural and multidiscipline teams)

JULY 2015-DECEMBER 2016

#### Director, Energy & Infrastructure Business Unit, Kantor Management Consultants S.A (KMC), Athens, Greece

Responsible for (a) the management of the company's "Energy & Infrastructure Business Unit"; (b) guiding and foreseeing the professional development of the unit's younger/less experienced staff; (c) expanding the company's area of business and vision; (d) developing proposals and implanting projects and (e) checking the quality of deliverables, looking out for deadlines and collaborating with external partners. Significant projects won and carried out include, amongst others, the following:

- [EU-28 Analysis of the barriers in gas wholesale markets in the EU](#) (project funded by the Agency for the Cooperation of Energy Regulators-ACER), Project Manager and Regulatory Expert.
- [Ukraine Assistance to Ukraine in the process of implementation of energy sector reform in line with Ukraine's international commitments](#) (project funded European Commission, budget over 2 mil Euros, KMC consortium leader). Drafted the proposal, coordinated a consortium of 4 major European companies, Project Manager to the overall awarded project).
- [Ukraine](#) Transition from cost-plus tariffs to incentive-based pricing: Development of Secondary Legislation, Transitional Methodology (including piloting), benchmarking and capacity building of the Ukraine energy regulator (project funded by the World Bank, budget over 1 mil Euros, proposal preparation and Project Manager on behalf of KMC).
- [Greece](#), Initial support to Planet S.A. on the transposition of Directive 2014/94/EC on the deployment of alternative fuels infrastructure.
- [Greece](#) Development of a tariff regulation for gas distribution networks. The development of the Regulation was mandatory following the unbundling of the original three vertically integrated companies to Distribution System Operators and respective gas suppliers, in the context of the provisions of Directive 2009/73/EC (October to December 2016)
- [Greece/Italy](#) Economic consultancy services (Due diligence gas TSO) Analysis of the existing transportation contracts: capacity commitments (e.g. firm / interruptible, short / long-term) and provisions for early termination. Analysis of other contracts: commercial service agreements, Interconnection agreements, operational Balancing agreements, cooperation agreements with TSOs/LSOs, other companies. Review of the commercial access conditions and of the organizational structure and management of the TSOs commercial activities (e.g. process and procedures, IT systems for commercial activities, FTE in the commercial department, skills).
- [Greece](#) Business plan and prescription of actions to be undertaken by a new electricity supplier. Advice on the procedure and requirements to enter the Greek electricity market as a supplier. Knowledge transfer on the structure, functionality and specificities of the Greek electricity market. Knowledge transfer on the procedure of capacity allocation at interconnection points in the Balkan region. Development of a business plan.
- [Greece/Bulgaria Gas Market Intelligence in Greece and Bulgaria](#). Regulatory framework. Overview of the ongoing liberalization process: main issues of current and expected regulatory set. Tariffs for transportation, storage, regasification at current levels and expected evolution after commercial operation of new infrastructures. Potential opening of the Greek market through the incumbent's gas release programme. Gas balancing rules and access. Assessment of possible congestions on the Greek/Bulgarian gas grid. Price references. End user prices by segment and associated drivers. End user typical pattern of consumption (consumption profile) by segment. Cost segmentation by segment (commodity, cost of infrastructures, taxes). Supply cost benchmark at borders per country.

**Business or sector** Energy consulting, energy regulation (leader of international multicultural and multidiscipline teams)

JUNE 2002-JUNE 2015

### Head, Energy Planning and International Affairs Department (since April 2011), Regulatory Authority for Energy (RAE), Athens, Greece

13 years with the Greek Energy Regulator ,RAE. Extensive understanding of the overall EU energy/climate/energy efficiency policy (infrastructure regulation, wholesale and retail market design and operation, regional integration at a technical level). Excellent understanding related to the application of the EU energy acquis in the Energy Community. Involved in several topics related to the liberalisation and development of the Greek energy market. As Head of RAE's Energy Planning and International Affairs Department, I have been responsible to liaise and cooperate with Regulatory Authorities of other countries, international Organisations and the European Commission. The following bullet points pinpoint selected activities:

- [TAP Exemption Procedure](#) Member of the Greek-Italian-Albanian team of energy regulators who designed the [terms and conditions for ensuring secure financing and non-discriminatory access to the TransAdriaticPipeline \(TAP\)](#). Member of the team who designed the Guidelines and the Market Test procedure for the reservation of capacity on TAP.
- [IGI Exemption Procedure](#) Member of the Greek-Bulgarian team who developed the Guidelines for the first market test held at the Interconnector Greece-Bulgaria (IGB).

- Interconnection Agreements, Reverse flows and Interoperability Network Code Implementation Member of the team of regulators and transmission system operators from Greece and Bulgaria who worked with the European Commission on the design of the virtual reverse flow at the GR-BG interconnection point and formulated the Interconnection Agreement.
- New sources of gas in the East Med Member of the team of regulators from Italy, Greece, Cyprus and Israel that discussed regulatory collaboration in the period 2013-2014. Part of these exchanges of ideas took place under the auspices of CEER.
- Gas Network Codes, Congestion management procedure, short term obligatory gas release mechanisms, new infrastructure and LNG terminal regulation Member of the team that finalised the Greek natural gas network code in April 2010, its subsequent revisions in 2011 and 2013 including advanced reservation capacity agreements (ARCA) that can provide appropriate guarantees for the development of new infrastructure. Developed in coordination with the LNG System Operator the rules for access to the Greek LNG terminals. The LNG rules include advanced features such as full implementation of the Congestion Management Procedures of Regulation 715/2009 to LNG and special provisions for partial unloadings and facilitation of spot planning. Involved, in cooperation with the Bulgarian energy regulator, towards the implementation of the European Network Codes (NC CAM, NC BAL, NC IO & Data Exchange). The Code incorporated specific mechanisms to support the gas and capacity release programme of the incumbent DEPA as imposed by the competition authority.
- Involved in the works of the Mediterranean Energy Regulators (MEDREG), the Energy Community Regulatory Board (ECRB), the Council of the European Energy Regulators (CEER) and the Agency of the European Energy Regulators (ACER) (and also formerly ERGEG). Claiming extended experience in a multinational work environment for more than a decade.
- Member of several working groups of the CEER since 2002. Participated in Energy Community and MEDREG working groups for more than 5 years.
- Member of the CEER LNG Task Force (and the former ERGEG working group) carrying out studies on the regulation of European LNG terminals in the period 2004-2015. Involved in the following studies "CEER Status Review on monitoring access to EU LNG terminals in 2009- 2013" (2014), "CEER Status Review and evaluation of access regimes at LNG terminals in the EU" (2013), CEER Monitoring Report on Implementation of the Transparency Template in the European LNG Terminals (2013), Final ERGEG study on congestion management procedures & anti-hoarding mechanisms in the European LNG terminals (2011), Monitoring the implementation of the GGPLNG (2009), Guidelines for Good Third Party Access Practice for LNG System Operators (GGPLNG) (2008).
- Co-Chair of the Gas Working Group of MEDREG in the period November 2014-July 2015. Contributor to the identification of activities included in MEDREG's action plan in the period 2015-2017.
- Alternate representative of RAE on the Board of ACER and ECRB and the General Assemblies of CEER and MEDREG since 2012. Followed up the complete regulatory framework under the third energy package (including the development of the EU Network Codes for both electricity/gas)
- PCI Procedure Representative of the Greek regulator in the EU North South Infrastructure (NSI)-East and Southern Gas Corridor Regional Groups for the selection of PCIs in the period 2012-2014. Claiming excellent knowledge of the current actions and procedures at EU level in the context of promoting the development of new infrastructure through the PCI process (**pipelines, gas storages and LNG terminals**). Representative to the GRI SEE initiative and to the Central and South-Eastern Gas Europe Connectivity group (CESEC).
- Monitoring and Reporting Coordinated all departments of RAE for the timely reporting to ACER in the context of the Market Monitoring Report (MMR) from 2011 to 2015. Reviewer, on behalf of RAE, of all MMRs prior to their publication. Through this involvement, acquired excellent understanding of monitoring and reporting issues and indicators including benchmarking methodologies. Coordinated the responses of RAE to all questionnaires received from ACER, CEER, ECRB and MEDREG across all topics (electricity, gas, renewables, new infrastructure, consumers, dispute resolution, market development, unbundling etc). Through this involvement and the participation in the highest bodies of all above organisations, I acquired significant understanding of sector specific and also cross-sectional regulatory issues as well as on region specific problems. I have been involved in the design of a number of questionnaires, including the questionnaire developed by ACER for the regulatory input on PCI projects and MEDREG's questionnaire on the monitoring exercise on the implementation of gas TPA rules in the Mediterranean.
- Member of the International Programme Committee of the Fourth Forum in Energy Regulation co-organised by the CEER and RAE and held in Athens in 2009 gathering together 898 participants (including 124 invited Speakers and Chairs and 30 journalists) from 104 countries and 6 continents.



Member of the organisation committee involved in all organizational aspects. I have actively collaborated with all international regulatory organisations: CEER, ECRB, MEDREG, NARUC, CAMPUT, ARIAE, ERRA, RERA etc.

- Member of the team who worked, in the context of the CEER (and then ACER), on a governance paper related to the future of the Energy Community and its relationship with ACER in the period 2013-2015.
- Experience with EU Twinning Projects acquired through participation in the “EU – ENPI Twinning: Regulatory and Legal Strengthening of Natural Gas Regulation in NERC”. (Between the Delegation of the European Commission to Ukraine and the MS Administration, the Italian Regulatory Authority for Electricity and Gas) and RAE.
- Project manager of four EU co-funded programmes under the LIFE III and ALTENER – Intelligent Energy Europe initiatives. The programmes concerned emission allowance trading ([ETRES](#), 2003-2006), large scale RES penetration ([Greenet Incentives](#), 2006-2009), RES/storage support mechanisms and barriers for entry ([STORIES](#), 2007-2010), and energy efficiency ([BOILEFF](#), 2006-2009). Also provided expertise on regulatory affairs related to RES energy storage in a [study](#) ran by the Fuel Cells and Hydrogen Joint Undertaking (FCH JU)
- Project manager of feasibility and technical studies on the introduction of natural gas in the form of LNG as a fuel for power production on the Greek island of Crete and the introduction (technical issues, supply analysis, project and financing structures and risk assessment). Contributor to several analyses on LNG international market developments, very good knowledge and understanding of the world LNG supply/demand chain including technical and regulatory aspects of European LNG terminals as well as small (and satellite) terminals. Good understanding of gas security of supply issues. Very good understanding on issues and implications related to gas quality and interchangeability and interoperability issues.
- Good understanding on the technical and regulatory issues related to renewable energy sources including hybrid systems (RES and storage facilities). This understanding has been acquired through the involvement in the energy planning of the Greek non-interconnected islands and also through participation into several EU funded projects.
- Provided expertise on technical and environmental issues related to clean power production (e.g. clean coal technologies, biomass/biofuels, DLN combustors, SCR, SNCR, FGD, CCS). Member of the team that transposed Directive 2002/91/EC on the energy performance of buildings in the Greek legislation.
- Responsible for following up European and international policies and initiatives towards combating climate change (EU ETS). Very good knowledge of the overall EU air pollution legislation (e.g. 2010/75/EC on industrial emissions) and BREF documents.
- RAE representative during the preparatory phase of the 1st and 2nd National Allocation Plans for greenhouse gas emissions reduction under directive 2003/87/EC. Also involved in the national team commenting upon Directives 2003/87/EC and 2004/101/EC while in proposal status.

**Business or sector** Energy Regulation, regional and international regulatory cooperation (leader and member of international multicultural and multidiscipline teams)

OCTOBER 2001-APRIL 2015

Capacity building and assistance, indicatively ICF Consulting (UK), LDK Consultants (GR), SimTec Software and Services (GR), IC Consultants London (UK), the East Africa Power Pool (EAPP) Africa, (funding USAID, USA), PIERCE ATWOOD (USA), National Technical University of Athens (GR)

Delivered advice and expertise on issues related to technical and regulatory issues. Indicatively on the following:

- [Recommendations based on the best practices of EU countries with respect to rules and procedures for connection as well as connection tariffs for the Electricity and Gas networks \(Armenia\)](#), INNOGATE Programme, ICF Consulting (UK), July-October 2013, 14 Days)
- [Energy \(electricity and Gas\) Sector Performance Assessment and Improvement under a Regulatory Perspective](#) (regulatory treatment of losses) ([Azerbaijan](#), INNOGATE Programme, ICF Consulting (UK), December 2013-May 2014, 16 Days)
- [Rules of Connection to Electricity and Gas Distribution Networks of the Republic of Kyrgyzstan](#) ([Kyrgyzstan](#), INNOGATE Programme, LDK Consultants-GR, December 2014-April 2015, 16 Days)
- Regulatory review and best practices on the promotion of RES – (Electricity and Cogeneration Regulatory Authority of [Saudi Arabia](#) (PIERCE ATWOOD (USA), February 2013-August 2014).

- Knowledge transfer on the EU Climate Policy (East Africa Power Pool under a USAID funded contract, October 2014, 5 Days)
- Support on technical issues: fluid mechanics, clean coal technologies (e.g. coal gasification), combustion, fuel interchangeability, combustion oscillations, emissions dispersion, computational modelling of erosion, several computational fluid dynamics applications on pipeworks and combustors including particular emphasis on two phase flows. Developed several custom based software applications (UNILEVER-UK 2000-2002, IC Consultants-UK, 1997-2002, SIMTEC-GR (ANSYS-FLUENT) 2002-2009)

**Business or sector** Energy sector, energy regulation, international cooperation, regulatory proximity, academia (member of international multicultural and multidiscipline teams)

SEPTEMBER 2001 – JUNE 2002 **Postdoctoral Research Associate, Mechanical Engineering Department, Imperial College, London, UK**

The project, funded by UNILEVER RESEARCH, Port Sunlight, Quarry Road, East Bebington, Wirral L63 3JW, U.K., involved the implementation of advanced modelling approaches and the development of a front-end user-friendly cross platform computational tool to assess energy efficiency in the process industry.

**Business or sector** Energy efficiency, Industry-Academia (member of international multicultural teams)

AUGUST 1998 – AUGUST 2001- **Senior Consultant, ACCENTURE, Athens Greece**

I coordinated a team of software and financial analysts on the design, development, version control and implementation of state-of-the-art financial applications for Greek banks with the collaboration of the Spanish branch of ACCENTURE. My team (was awarded the Global Andersen Consulting Financial Services Client Excellence Award for performance.

**Business or sector** Consulting-Financial and Information Technology (leader and member international, multicultural and multidiscipline teams)

JANUARY 1997 - MARCH 2002- **Consultant, Babcock-Hitachi K.K., Tokyo, Japan and Power and Industrial Systems Laboratory, Hitachi Ltd, Ibaraki, Japan under the auspices of IC Consultants Ltd, London, U.K.**

Hitachi, Ltd. and Babcock-Hitachi K.K. headquartered in Japan are world leaders in the manufacturing of a wide range of systems, products and services in market sectors including power and industrial systems. As a member of a small team of specialised consultants, worked on behalf of the two companies for a five-year period on the development of models and analysis methods for the estimation of particle deposition and erosion in pulverised and Pressurised Fluidised Bed Combustor (PFBC) plants in Japan. The project was carried out in close collaboration with the Japanese partners and also on behalf of a major electricity producer (Hokoriku Electric, Japan).

**Business or sector** Energy Consulting (member international, multicultural teams)

JANUARY 1997 – APRIL 1998- **Postdoctoral Research Associate, Mechanical Engineering Department, Imperial College, London, UK**

The work was a continuation to the PhD study (see below). Participated in research projects commissioned by the United States Army and Navy related to the combustion of liquid fuels and natural gas in gas turbines for power production. Emphasis on fuel mixing, energy, efficiency and emission reduction.

**Business or sector** Academia (R&D), (member international, multicultural teams)

EDUCATION AND TRAINING

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OCTOBER 1992 – JANUARY 1997 **Doctor of Philosophy (Ph.D.)**  
 Mechanical Engineering Department, Imperial College, London, UK

Thesis title: «Unforced and periodically forced flame extinction in turbulent counterflows».

Energy efficiency, emission reduction and climate change that are nowadays receiving considerable attention in terms of policy making and innovation have been in the international R&D agenda for more than 15-20 years.

The PhD study involved state of the art experimental, theoretical and computational fluid mechanics and combustion research on natural gas fired flames with application to modern gas turbines for power production based on premix technology. Emphasis was placed on fluid mechanics, fuel air mixing, flame stability, combustion oscillations, emission reduction and combustion efficiency.

Research was funded by the USA Department of Energy, the USA Army and Navy and the EU and resulted in archive journal publications and presentations in conferences world-wide

OCTOBER 1987-JULY 1992

**Dipl. Ing. in Mechanical Engineering (5-year study)**

Mechanical Engineering Department, Aristotle University of Thessaloniki, Greece

Fluid mechanics, aerodynamics, gas turbines, internal combustion engines, heat transfer, environmental fluid mechanics - Grade 8, "Very Good", Top 1%

MARCH 1991 - JULY 1991

**Stagiaire programme**

Von Karman Institute of Fluid Dynamics, Rhode-St-Genèse, Belgium

Member of a team developing standardisation procedures for testing the suitability of de/anti-icing fluid sprays applied to aircraft wings prior to take off.

**PERSONAL SKILLS**

Fast and eager learner, flexible, adaptive and versatile. Able to work long hours under stressful conditions, I seek excellence in work to be delivered.

Strong team player and leader able to adapt to any circumstances. I have been often acknowledged as someone that can bridge gaps and built consensus even in cases where opinions are substantially diverging.

With proven ability to inspire younger professionals. Attentive to the differences in the character of each member in a team, able to make most of each person's special characteristics and skills, able to build team spirit and strong relationships amongst team members.

Good ability to adapt to multicultural environments, gained both through my studies and work experience.

**. MOTHER TONGUE(S)**

Greek

**OTHER LANGUAGE(S)**

|   | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|---|---------------|---------|--------------------|-------------------|---------|
|   | LISTENING     | READING | SPOKEN INTERACTION | SPOKEN PRODUCTION |         |
| ENGLISH   | C2            | C2      | C2                 | C2                | C2      |
| CAMBRIDGE PROFICIENCY IN ENGLISH, PhD written in English, several publications, presentations and reports in English, worked for UK based companies |               |         |                    |                   |         |
| FRENCH  | A2            | A2      | A2                 | A2                | A2      |
| Certificat de Langue Française.   |               |         |                    |                   |         |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**COMMUNICATION SKILLS**

Good communication skills in presentations and every-day interactions. Able to prepare well-structured documents with clear -and where possible innovative- messages that can be of practical significance to the readers. Able to easily adapt content of discussions, presentations and documents to match the audience's needs and requirements. I claim substantial experience in establishing contacts and interacting and all levels.



**ORGANISATIONAL /  
MANAGERIAL SKILLS**

Experience in team and project management obtained from leading small groups of young professionals and students through several multidisciplinary projects. Responsible for a small group of 3 people as Head of Energy Planning and International Affairs of RAE, 10 people in ACCENTURE, 5-6 people in KANTOR MANAGEMENT CONSULTANTS plus 10+ short term experts and external collaborators from other consulting companies worldwide, 6 people in E3Modelling.

Experience in team management and project management and coordination of multidisciplinary working groups has also been gained after assuming a leading role in the organisation of two international major conferences (the Fourth World Forum on Energy Regulation with over 1000 participants and the European Combustion Meeting 2007 with over 400 participants).

**JOB-RELATED SKILLS**

Technical skills and competences in the energy and environmental sectors including energy regulation as outlined in the Work Experience sections above.

Strong analytical skills, ability to translate technical/modelling information to practical and quantifiable information. Seek excellence in delivered work

**COMPUTER SKILLS**

Knowledge of several programming languages (C, C++, FOTRAN, COBOL, ABAP/4, SQL, GAMS), databases and client/server applications at a professional level.

Experienced user of multiple operating systems (Windows, Unix, Linux).

Long experience with Microsoft Office (MS Word, Powerpoint, Excel, Access), LaTeX, Adobe applications and a number of graphic and image processing packages. Ability to work with several files, applications etc simultaneously.

Advanced working knowledge of commercial CFD software programs including ANSYS FLUENT and StarCD. Experience with Pipeline Studio for natural gas pipeline simulations. Very good understanding and analysis of fluid mechanic-based numerical simulations of any type.

Long experience with advanced issues of numerical analysis and low-level computer interfacing for data acquisition.

Experience with processing of large datasets, excellent knowledge of statistics, , 25 years' experience with visual representations of results

**TEACHING EXPERIENCE,  
CAPACITY BUILDING AND  
KNOWLEDGE TRANSFER**

- **APRIL 2015, COUNCIL OF THE EUROPEAN ENERGY REGULATORS (CEER)** Invited speaker/Contributor to the FSR-CEER Joint Training Course on the Fundamentals of Energy Regulation, Brussels, 13-17 April 2015. Discussed the transition from the second to the third energy package on the specific issues of customer protection, unbundling, retail market opening, new infrastructure, harmonised rules for the regulation of interconnections on the specific example of Greece.
- **MARCH 2015, FLORENCE SCHOOL OF REGULATION (FSR)** Invited speaker/Contributor to a Specialized Training on the Regulation of Gas Markets, 23-27 March 2015. **Discussed the capacity allocation and congestion management rules in LNG terminals/presented the regulatory tools to enhance the use of the Revythoussa LNG terminal.**
- **OCTOBER 2014, EASTERN AFRICA POWER POOL** Provision of certified training in Renewable Energy Finance and Environmental Integration (Clean Energy) to members of the Environmental Committee of the Eastern Africa Power Pool. Modules taught included RES technologies, Kyoto Flexibility Mechanisms with emphasis on the clean development mechanism, carbon financing for developing countries and hands-on experience with the software RetScreen. Course funded by USAID.
- **2011-2016, INTERNATIONAL HELLENIC UNIVERSITY (IHU) VISITING PROFESSOR.** Two Modules and supervisor to several diploma theses. The course and all communication with the students is conducted in English.
  - A) 2011-2016: **"Emission Allowance Markets"** 30 Hours, Summer Term. The aim of this module is to provide an understanding of the emerging field of emission allowance markets. The module introduces the students to the aspects and issues related to the evolution and functioning of emissions trading system worldwide (including the EU-ETS).
  - B) 2015-2016: **"Energy Systems Simulation and Modelling"** 30 Hours, Winter Term. The aim of the module is to provide an understanding of detailed approaches such as Computational Fluid Dynamics and high-level approaches such as the IEA TIMES Modelling Tool to energy modelling.
  - C) Supervision of diploma thesis as listed below. Evaluator of over 10 diploma theses

carried out by other supervisors.

2016-2017

Georgiadis, G. *Technical challenges with battery based propulsion*

2014-2015

Abou Aldahab, T, *Technical challenges with the development of small scale LNG terminals and fuelling stations (with application to the particular case of Egypt)*

2013-2014

Rossios, K. *Technical challenges with the development of small scale LNG terminals and fuelling stations.*

Varagka, K. *Regulatory coupling of large and small scale LNG terminals in the light of the newest European clean fuel energy strategy.*

Gkoutzamanis, V. *Numerical study of gas-solid flow in a cyclone separator: A CFD investigation.*

2012-2013

Koutsianos, A. *Numerical simulation of CO<sub>2</sub> capture from a fluidized bed*

Pavliidi, A. *Defragmentation and decarbonisation of the electricity market in view of 2014 and 2020. The thesis focused on the electricity target model.*

2011-2012

Dandanidis, G. *The impact of emissions trading on electricity investments and prices*

Loulas, M. *Power Plant Investment Decisions under Carbon Price Uncertainty.*

Lolas, F. *Auctioning and trading emission allowances: products, procedures, prices, exchanges and monitoring.*

2007-2017, AGRICULTURAL UNIVERSITY OF ATHENS (AGU), FOOD ENGINEERING MSC COURSE, ADJUNCT PROFESSOR. Summer term, 50+ hours lecture on "Introduction to Computational Fluid Dynamics" The course aims to familiarise the students with the basic concepts of the science of computational fluid dynamics and is carried out through a mixture of lectures and practical training by use of the commercial software ANSYS FLUENT. The course covers topics related to 2D and 3D single phase flows with and without heat transfer, species transport and mixtures (with and without reactions) and multiphase flows (discrete particle modelling and Eulerian approaches)

- 2013-2015, AD HOC EXPERT FACILITY, INOGATE TECHNICAL SECRETARIAT AND INTEGRATED PROGRAMME IN SUPPORT OF THE BAKU INITIATIVE AND THE EASTERN PARTNERSHIP ENERGY OBJECTIVES. Capacity building to the Energy regulators of Armenia, Azerbaijan and Kyrgyzstan on natural gas related regulatory issues through a series of presentations.
- 2009-2011, EU-UKRAINE TWINNING PROJECT AT THE UKRAINIAN ENERGY REGULATOR (Regulatory and Legal Capacity Strengthening of Natural Gas Regulation in NERC) Lectured on "**LNG supply, demand, feasibility assessment and terminal characteristics**" also on conditions for access to the natural gas transmission. Besides the content of the course as such, the involvement in this project provided valuable experience on how to deliver a course to non-fluent English speakers.
- 2007, EURO-ARAB MASHREQ GAS CO-OPERATION CENTRE Contributor to a capacity building event on topics **related to financing and risk assessment of new LNG infrastructure, CNG infrastructure and small-scale LNG.**
- 2003-2014, Supervised and guided over 15 students during their Stagiaire period at the Greek Regulatory Authority for Energy on power generation technologies, utilisation of RES focused software (HOMER, RETScreen) for the evaluation of RES projects, emissions trading, carbon markets and their effect on electricity, simulations on natural gas networks for new infrastructures, statistical processing of energy data, energy planning in the Greek non-interconnected islands. Co-supervised a number of undergraduate students of the NTUA Mech. Eng. Department in their final year theses in the period 2003-2006. Performed quality control of all studies, thesis etc
- 2000-2001, Corporate Instructor on software development, ACCENTURE (2000-2001)
- 1994-1998, Laboratory tutor, Imperial College

#### OTHER SKILLS

Able to bridge knowledge gaps in working groups with participants from multidisciplinary environments. Substantial ease in report/document writing, strong ability to highlight main points and make conclusions accessible and audience specific.

## DRIVING LICENCE B

## ADDITIONAL INFORMATION

 ARCHIVE JOURNAL  
PUBLICATIONS OR  
PUBLICATIONS IN PEER  
REVIEWED CONFERENCES

- 1) Papadopoulos, C. & Sardi K. (2006) Passive scalar and dissipation simulations with the linear eddy model. In *Complex Effects in Large Eddy Simulations* (Kassinis S.C., Langer C.A., Laccarino G., Moin P. Eds.), Book Series: Lecture notes in Computational Science and Engineering, Springer, Volume 56 pp 191-202.
- 2) Sofialidis, D., Faltsi, O., Skevis, G., Sardi, K., Skodras, G., Kaldis, S. P. & Sakellarios, G.P. (2005), Modelling Low Temperature Carbonisation of Solid Fuels in a Heated Rotary Kiln for Clean Gas Fuel Production, *FUEL* 84: 2211-2221.
- 3) Orfanoudakis, N. G., HatziaPOSTOLOU, A. Krallis, K., Mastorakos, E. Sardi, K., Pavlou, D. G. & Vlachakis, N. (2005) Design, evaluation measurements and modelling of a small swirl stabilised laboratory burner, *The IFRF Electronic Combustion Journal* December 2005, Article Number 200510, [www.journal.ifrf.net](http://www.journal.ifrf.net) ISSN 1652-479X.
- 4) Inage S.I., Taylor A.M.K.P., Sardi, K., Marquis, A.J. Hamada, I. Hukuda, Y. Ichinose, N. & Kobayashi, N. (2001) A numerical evaluation of erosion on a surface of a pipe with elbows. *Trans. Japan Soc. Mech. Eng* 67(654 B): p. 305-312. (in Japanese).
- 5) Sardi, K, Taylor, A.M.K.P & Whitelaw J.H. (2000) Extinction of turbulent counterflow flames under periodic strain. *Comb. Flame* 120:265-284.
- 6) Sardi, K & Whitelaw J.H. (1999) Extinction timescales of periodically strained lean counterflow flames. *Exp. Fluids* 37:751-759.
- 7) Sardi, K, Taylor, A.M.K.P & Whitelaw J.H. (1999) A mixing model for the calculation of extinction in oscillating flames. *AIAA Journal* 37:751-758
- 8) Inage S.I., Taylor A.M.K.P., Sardi, K., Marquis, A.J. Hamada, I. Hukuda, Y. Ichinose, N. & Kobayashi, N. (1998) Development of an erosion evaluation technique using a new model on a pipe surface. *Trans. Japan Soc. Mech. Eng.* 97-1211:157-174 (in Japanese).
- 9) Sardi, K., Taylor, A.M.K.P & Whitelaw J.H. (1998) Conditional scalar dissipation statistics in a turbulent counterflow. *J. Fluid Mech.* 361:1-24.
- 10) Sardi, K., Taylor, A.M.K.P. & Whitelaw J.H. (1998) A mixing model for joint scalar statistics. *Comb. Sci. Tech.* 136:95-123.
- 11) Sardi, K. & Taylor, A.M.K.P. (1997) Joint scalar-scalar dissipation measurements at the exit of a turbulent jet. *Eleventh Symposium on Turbulent Shear Flows* (F. Durst, B.E. Launder, F.W. Schmidt, J.H. Whitelaw Eds.), Volume I, pp 8/19-8/24.
- 12) Sardi, K., Taylor, A.M.K.P. & Whitelaw J.H. (1996) Experimental investigation of the interaction between scalar dissipation and strain rate in a counterflow geometry. In *Variable density low-speed turbulent flows* (L. Fulachier, J.L. Lumley, F. Anselmet Eds.) Kluwer Academic Publishers, pp 143-150.

 SELECTED PRESENTATIONS IN  
ACADEMIC CONFERENCES

- Chatzidakis S., Sardi K., Protonotariou S., Mantala I., Stoforos N.G. & Yanniotis S. "Computational fluid dynamics simulation of an air jet mill", 12th International Congress on Engineering and Food (ICEF12), Québec City, Canada, June 14-18, 2015.
- Rossios, K., Sardi, K. & Martinopoulos, G. "Numerical simulation of LNG evaporation inside semi-trailer trucks used for the transportation of LNG to small scale terminals and refuelling stations: parameters and implications, 8th GRACM International Congress on Computational Mechanics, Volos, 12 July – 15 July 2015.
- Sardi, K., Yiakopoulos, C., Gryllias, K., Antoniadis, I & Founti M. "Vibration analysis and combustion performance of an industrial drying facility", Work-in-Progress Poster Session, 31st International Symposium on Combustion, Heidelberg, Germany, 6-11 August 2006.
- Lyra S., Sphicas P., Sardi K. & Bergeles G. "Detachment of droplets from surfaces", 2nd International Conference «From Scientific Computing to Computational Engineering», Athens 7-10 July 2006.
- Papadopoulos, Ch., Sardi, k. & Bergeles G. "Numerical simulation of ultrasound preconditioning of fine particles", 2nd International Conference «From Scientific Computing to Computational Engineering», Athens 7-10 July 2006.
- Papadopoulos, Ch. & Sardi, K. "Passive Scalar and Dissipation Simulations with the Linear Eddy Model", *Complex Effects in Large Eddy Simulations*, Limassol, Cyprus, 20-24 September 2005.
- Papadopoulos, Ch. & Sardi, K. "Linear Eddy Simulations of Turbulent Mixing of a Passive Scalar: Statistical properties and implications to combusting flows", Joint Meeting of the Italian and Greek sections of the Combustion Institute, Corfu, Greece, 17-19 June 2004, also in *The 3rd Meeting of the Greek Section of the Combustion Institute*, Patras, Greece, 7-8 November 2003.
- Sardi, K., Taylor, A.M.K.P. & Whitelaw J.H. "A mixing model for the calculation of extinction in oscillating flames.", 29th Fluid Dynamic Conference. American Institute of Aeronautics and Astronautics, Albuquerque, New Mexico, USA, 15-18th June 1998.

- Sardi, K. & Taylor, A.M.K.P "Joint scalar-scalar dissipation measurements at the exit of a turbulent jet.", Eleventh Symposium on Turbulent Shear Flows. Grenoble, France, 8-10 September 1997.
  - Sardi, K., Taylor, A.M.K.P & Whitelaw J.H "Measurements and predictions based on a simple mixing model of the scalar field of a counterflow.", Symposium on Variable Density Flows. International Union of Theoretical and Applied Mechanics (IUTAM). Marseilles, France, 8-10 July 1996.
  - Sardi, K "Joint scalar statistics in counterflows.", British Institute of Physics. British Gas Research Centre. Loughborough, UK, 21 September 1995.
  - Sardi, K., Taylor, A.M.K.P & Whitelaw J.H "Scalar dissipation statistics in a counterflow." European Mechanics Society, EUROMECH COLLOQUIUM 340 on the Statistical Properties of turbulent gaseous flames. Delft, The Netherlands, 30 August - 1 September 1995.
- INVITED ACADEMIC PRESENTATIONS**
- "Advanced models for erosion rate calculations in heat recovery boilers", Hitachi Gas Turbine R&D Centre, Hitachi, Japan, 20 March 2002 also to Hokoriku Electric, Toyama, Japan, 21 March 2002.
  - "Mixing and extinction timescales in turbulent combustion. An experimental and numerical investigation" Mechanical Engineering Department, University of Thessaly, 4 December 2002.
  - "Mixing models for joint scalar statistics" Invited Presentation at the ERCOFTAC UK South, Special Topic Group on Turbulence Structure. Civil Engineering Department, Imperial College of Science, Technology and Medicine, London, UK 30 June 1997.
  - "Scalar dissipation in counterflows. How does it look like ? " Invited presentation at the Department of Engineering, Cambridge University, UK, 6 July 1995.
- SELECTED INVITED PROFESSIONAL PRESENTATIONS**
- Sardi, K. "[Regulatory cooperation and implementation of the third package provisions on gas infrastructure exemptions : the case of TAP](#)", MEDREG - CEER Roundtable Palais des Congrès - Grasse, 19 November 2013, also in MEDREG – ERRA Joint Workshop: The forefront topics in gas market: Tariffs, Performance Standards and TPA, Milan 29 November 2014
  - Sardi, K & Thomadakis M. "Regulatory tools for utilizing and trading virtual reverse capacity in the Balkans", 19th Annual BBSPA Conference, April 17-18th, 2013, Vienna
  - Sardi, K. & Thomadakis M. "[Supplying Natural Gas from the Revythoussa LNG Terminal to Bulgaria via the Existing Pipeline System: Facts, Rules and Requirements](#)", BBSPA Regulatory and Legal Workshop, October 16 2012, Sofia, Bulgaria
  - Sardi, K, Thomadakis, M, Avlonitis, G. "[The Revythoussa LNG Terminal: an Entry Point to the Greek and South East European Markets](#)", Invited presentation Gas & Power Business Forum 2012, Sofia, Bulgaria, 11 May 2012, also in LNG Receiving Terminals – IQPC, Barcelona, Spain, 4-5 September 2012
  - Sardi, K. "[The innovation impact of the EU Emissions Trading Scheme : Past experience and future challenges in view of 2013](#)", Invited presentation IE 2011 GreenTech, Thessaloniki, 12-13 May 2011
  - Thomadakis, M, Avlonitis, G & Sardi, K. "[The Revythoussa LNG Terminal : Facts and Implications](#)", Invited presentation to the Commercial Strategies for Downstream LNG - IQPC, Barcelona, Spain, 8 - 9 July 2008.
  - Sardi, K. & Katsaros, A. "[Bioenergy in Greece, A review of legal and technical issues](#)", Invited presentation to the symposium Bioenergy in Greece organised by the German-Greek Chamber of Commerce and Industry, Thessaloniki, Greece, 11-12 May 2006.
  - Krommydas, T. & Sardi K. "[A review of Green House Gas Emission policies and schemes](#)", Invited presentation to the 10th National Conference on Energy and Development, Institute of Energy and Development for South East Europe, Athens 7-9 November 2005.
  - Sardi, K., Martin, P. & Heynes, D. "[Supply of LNG to the island of Crete for power generation](#) ", First International Conference on Small Scale LNG in Europe, Oslo, Norway, 29-30 September 2005.
- ORGANISATION OF SCIENTIFIC CONFERENCES AND PARTICIPATION IN TECHNICAL PROGRAMME COMMITTEES**
- Member of the International Programme Committee and the Local Organising Committee of the Fourth World Forum on Energy Regulation (WFER IV) held in Athens from 18 to 21 October 2009
  - [Member of the technical programme committee of the 2nd International Conference on Small Scale LNG in Europe, Bergen, Norway, 22-24 May 2007](#)
  - Vice President of the organising and technical committees of the European Combustion Meeting 2007 (Crete, April 2007),
  - Board Member of the organising and technical committees of the Joint Meeting of the Greek and Italian Sections of the Combustion Institute (Corfu, June 2004)
  - Vice President of the organising and technical committees of the Third Meeting of the Greek Section of the Combustion institute (Patras, Nov. 2003).

## HONOURS AND AWARDS

- In 2000, awarded the Global Andersen Consulting Financial Services Client Excellence Award.
- In 1997, nominated for the Imperial College Armstrong and Unwin Prizes awarded to an outstanding piece of research or scholarship which concerns the application of scientific methods to industrial problems.  
In 1995, research work on fuel mixing selected by the British Institute of Physics among the ten best Combustion research topics for 1995.

## MEMBERSHIPS AND OTHER ACTIVITIES

- Reviewer for the scientific journal Experiments in Fluids in the period 1997-2006
- Member of the board of the Greek Section of the Combustion Institute (Vice-president in the period 2001-2004 & 2005-2015)
- Member of the British Section of the Combustion Institute
- Member of the Technical Chamber of Greece since 1992.

## REFERENCES

Ms Clara Poletti,  
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