



## Heat Pumps and Applications in Buildings



WEDNESDAY

2

APRIL  
2025

Technical Chamber  
of Greece

## Speakers Biodata

## SESSION 1

**Costis Stambolis, Chairman & Executive Director, Institute of Energy for SE Europe (IENE)**



Mr. Costis Stambolis who is the Executive Director of IENE, has a background in Physics and Architecture having studied at the University of London, the North East London Polytechnic (NELP) and the Architectural Association in London from where he holds a Graduate Diploma in Architecture and Energy Studies (AA Dip. Grad). He also holds a professional practice license from the Technical Chamber of Greece (TEE), and a Masters Degree from the Said Business School, University of Oxford, where he studied "Strategy and Innovation".

Costis has carried out numerous studies and projects on Renewable Energy Sources in developing countries. He has consulted widely on solar building applications for both private and institutional clients in various European countries. He has worked as a consultant and strategy advisor on natural gas, oil markets and energy security issues for large multinational companies, international organizations and governments.

Costis has lectured widely on energy issues and has organised several national, regional and international conferences, seminars and workshops. He has published several books, conference proceedings, research papers and studies on energy policy, solar energy, RES and energy markets. Among others he is the editor of the "S.E. Europe Energy Outlook (2011,2017, 2022)", which considered a basic reference on energy for SE Europe.

Since 2001 he supervises and edits daily Greece's foremost energy site [www.energia.gr](http://www.energia.gr). He is a founding member of the Institute of Energy for South East Europe (IENE), which he currently chairs. He is a member of the Energy Institute (UK), the International Passive House Association (IPHA), The Technical Chamber of Greece (TEE). Since 2018 he also serves as a full member of the Greek government's standing committee on Energy and Climate Change (NECP).

**Costas Theofylaktos, Secretary General and Chairman of IENE's Energy Efficiency Committee, IENE, Greece**



Is a USA trained Mechanical Engineer with an MSc from the University of Evansville, Indiana, and has 25 years experience in the energy sector. Constantinos's special interests includes cogeneration and RES and was for many years chairman of Greece's Cogeneration Association and also member of the executive council of COGEN Europe. He has served as chairman and CEO of the Athens based Centre of Renewable Energy Sources (CRES).

**Καθηγ. Κωνσταντίνος Μαθιουδάκης, Διευθυντής Εργαστηρίου Θερμικών Στροβιλομηχανών, Σχολή Μηχανολόγων Μηχανικών ΕΜΠ**



Διευθυντής του Εργαστηρίου Θερμικών Στροβιλομηχανών της Σχολής Μηχανολόγων Μηχανικών ΕΜΠ.

Διδάσκει από το 1990 μαθήματα που σχετίζονται με τη μετατροπή της ενέργειας και την προώθηση αεροσκαφών και έχει πραγματοποιήσει έρευνα σε τομείς όπως η μοντελοποίηση και λειτουργία σταθμών παραγωγής ηλεκτρικής ενέργειας, αεριοστροβίλων, αεροπορικών στροβιλοκινητήρων. Έχει την ευθύνη της υλοποίησης και διαχείρισης μεγάλου αριθμού ερευνητικών έργων, και έχει αναπτύξει συνεργασίες με εταιρείες και οργανισμούς στην Ελλάδα, την Ευρώπη και σε όλο τον κόσμο, στους τομείς της ενέργειας και της πρόωσης. Μεταξύ αυτών και όλοι οι μεγάλοι ευρωπαϊκοί κατασκευαστές αεροπορικών κινητήρων (π.χ. SAFRAN, Rolls Royce, MTU), με πιο πρόσφατες συνεργασίες με την AIRBUS και τη Νότιο-Κορεατική DOOSAN Heavy Industries.

Η ερευνητική του δραστηριότητα έχει οδηγήσει σε περισσότερες από 200 Δημοσιεύσεις σε διεθνή επιστημονικά περιοδικά και συνέδρια. Εργασίες του έχουν τιμηθεί κατ' επανάληψη με το βραβείο καλλίτερης εργασίας, ενώ του έχει απονεμηθεί η ετήσια τιμητική διάκριση από την Επιτροπή Ελέγχου και Διαγνωστικής της Αμερικανικής Ένωσης Μηχανολόγων (IGTI/ASME) το 2002.

Έχει εκτενή γνώση του ενεργειακού Τομέα και Ελληνικού Ενεργειακού Συστήματος ειδικότερα, έχοντας διατελέσει για πεντέμισι χρόνια Γενικός Γραμματέας Ενέργειας του Υπουργείου Περιβάλλοντος και Ενέργειας. URL: <http://www.mech.ntua.gr/gr/mathioudakis>

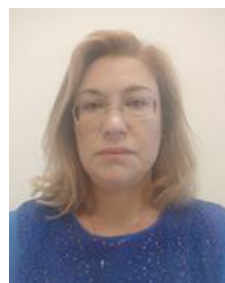
### Mr. Rafael Martinez-Gordon, Energy Analyst Buildings, IEA, Paris (online)



Dr. Rafael Martínez-Gordón was born on March 18th, 1993 in Valencia, Spain. He has worked as an analyst and modeller at the International Energy Agency (IEA) since 2022, where he was co-lead author of *The Future of Heat Pumps in China*, and where he has been author and contributor to several flagship IEA reports, such as the *Energy Technology Perspectives* series or the *World Energy Outlook*.

Prior to joining the IEA, he received a double Master's degree in Energy Systems Analysis from Technical University of Denmark (DTU) and Universitat Politècnica de València (UPV) and a Ph.D. in Energy Systems Analysis from Groningen University. During this Ph.D., he spent over three years as a visiting researcher at the Energy Transition Studies Unit of the Netherlands Organisation for Applied Scientific Research (TNO) and four months as a visiting researcher at the Physical Resource Theory Unit of Chalmers University.

### Dr. Irene Koronaki, Professor at the School of Mechanical Engineering, NTUA, Director of Laboratory of Applied Thermodynamics & Refrigeration Technology of Refrigerated Vehicles



Η Δρ. Ειρήνη Κορωνάκη είναι Δρ. Μηχανολόγος Μηχανικός, Καθηγήτρια στη Σχολή Μηχανολόγων Μηχανικών του Εθνικού Μετσόβιου Πολυτεχνείου (ΕΜΠ). Είναι διευθύντρια του Εργαστηρίου Εφαρμοσμένης Θερμοδυναμικής και Ψυκτικής Τεχνολογίας Οχημάτων Ψυγείων. Οι ερευνητικές της δραστηριότητες επικεντρώνονται στη θερμοδυναμική ψυκτικών κύκλων, αντλιών θερμότητας, και κύκλων ισχύος, με στόχο την εξοικονόμηση ενέργειας και τον ενεργειακό σχεδιασμό κτηρίων. Το ερευνητικό της έργο έχει ευρύτατη αναγνώριση, με 100 δημοσιεύσεις σε διεθνή επιστημονικά περιοδικά και συνέδρια, ενώ το h-index της ανέρχεται στο 25 σύμφωνα με το Scopus. Σημαντική είναι η συμβολή της στη συγγραφή επιστημονικών βιβλίων και κεφαλαίων σε εγκυκλοπαίδειες, καθώς και η συμμετοχή της ως κριτής σε πληθώρα διεθνών επιστημονικών περιοδικών και συνεδρίων.

Η Δρ. Κορωνάκη έχει λάβει διακρίσεις για το έργο της, μεταξύ των οποίων το βραβείο Edward F. Obert Award το 2022 από την ASME, ενώ υπήρξε επιβλέπουσα καθηγήτρια της ομάδας του ΕΜΠ που διακρίθηκε με δεύτερο βραβείο στον διεθνή φοιτητικό διαγωνισμό της ASHRAE το 2021 και με το τρίτο βραβείο στον διεθνή φοιτητικό διαγωνισμό της ASHRAE το 2024. Έχει επίσης αναγνωριστεί ως outstanding reviewer από το Journal of Energy Engineering. Παράλληλα, διατηρεί ενεργή συμμετοχή σε

ερευνητικά προγράμματα και επιτροπές όπως το Κέντρο Ανανεώσιμων Πηγών Ενέργειας.

Διδάσκει τόσο σε προπτυχιακά όσο και σε μεταπτυχιακά προγράμματα του ΕΜΠ, με μαθήματα που περιλαμβάνουν την Εφαρμοσμένη Θερμοδυναμική και τη Μεταφορά Θερμότητας. Επιπλέον, είναι ενεργό μέλος διεθνών επιστημονικών φορέων, όπως ASME και ASHRAE, και συμμετέχει σε επιτροπές της Σχολής Μηχανολόγων Μηχανικών του ΕΜΠ. Τον Οκτώβριο 2024 έχει ξεκινήσει τον συντονισμό προγραμμάτων στο ΚΕΔΙΒΙΜ ΕΜΠ για την δια βίου μάθηση μηχανικών και άλλων επαγγελματιών ομάδων (όπως ψυκτικών) σε θέματα εξοικονόμησης ενέργειας κτηρίων και αντλιών θερμότητας εναλλακτικών ψυκτικών μέσων.

## SESSION 2

**Ms. Mélanie Auvray, Head of Supply Chain & Competitiveness, European Heat Pump Association AISBL, Brussels, Belgium (online)**



Make clean heating the standard is one of the key recommendations to a fast heat pump roll-out and meet the REPowerEU target (EU Heat Pump Accelerator: a joint plan for boosting heat pump deployment and meeting the REPowerEU targets).

By setting standards through EU product policies such as Ecodesign, the EU can drive innovation and sustainability by phasing out inefficient and unsustainable heating products while ensuring the uptake of heat pumps and providing long-term certainty to investors, manufacturers, and workers on the future direction of the heating market.

As an ecodesign and digitalisation expert, my role in EHPA is to engage with key actors and provide technical support during the development or review of regulations to ensure that it pushes forward greater climate and energy ambition.

### WORK EXPERIENCE

01/12/2024 – CURRENT Brussels, Belgium

**HEAD OF SUPPLY CHAIN & COMPETITIVENESS EUROPEAN HEAT PUMP ASSOCIATION**

- Overseeing three EHPA Policy Priorities: Ecodesign & Energy Labelling, Digitalisation, Refrigerants and Competitiveness and industrial policies.
- Managing the Heat Pump Manufacturers Committee and coordinating their joint actions.

- Providing guidances to the policy officers in charge of EHPA Ecodesign & Energy Labelling Task force, EHPA Refrigerant Task force, and EHPA Digitalisation Task force.
- Representing EHPA externally in webinars, conferences, workshops, panel discussions and trade shows.
- Providing guidances to the policy officer in charge of the EU Project "Compliance Services" to support suppliers, retailers and installers regarding the compliance with Ecodesign and Labelling regulations and providing them with the heat pump sector expertise.
- Providing guidances to the policy officer in charge of the EU Project "WaterWarmth" dedicated to harnessing aquathermal energy opportunities and providing them with the Ecodesign and Energy Labelling expertise.

01/07/2023 – 01/12/2024 Brussels, Belgium

#### **POLICY MANAGER EUROPEAN HEAT PUMP ASSOCIATION**

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- Overseeing two EHPA Policy Priorities: Ecodesign & Energy Labelling and Digitalisation
- Managing the Heat Pump Manufacturers Committee and coordinating their joint actions.
- Providing guidances to the two policy officers in charge of EHPA Task forces on Ecodesign & Energy Labelling and Digitalisation
- Representing EHPA externally in webinars, conferences, workshops, panel discussions and trade shows.
- Taking part in the EU Project "Compliance Services" to support suppliers, retailers and installers regarding the compliance with Ecodesign and Labelling regulations and providing them with the heat pump sector expertise.
- Taking part in the EU Project "WaterWarmth" dedicated to harnessing aquathermal energy opportunities and providing them with the Ecodesign and Energy Labelling expertise.

#### **Christos Gekas, Mechanical Engineer, Technical Support Manager, LG Electronics Hellas Business Solutions**



Christos Gekas is NTUA Mechanical Engineer.

Employed in LG Electronics Hellas since 2007, he is responsible for technical support (pre/after sales) the training of all customers and partners and spec in activities.

Graduated from Mechanical Engineering Department of the National Technical University of Athens.

From 1999 up to 2007 he worked at FG Europe as a sales engineer

From 2007 he has been working in LG Electronics as Air-Conditioning Academy Supervisor at in charge of the training program and then was promoted to AS Spec In & Academy Asst. Manager.

In addition he is in charge of coordinating pre-sales and after-sales technical support.

Graduated from Mechanical Engineering Department of the National Technical University of Athens.

From 1999 up to 2007 he worked at FG Europe as a sales engineer

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In addition he is in charge of coordinating pre-sales and after-sales technical support.

Provide any additional comments

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### Theodoros Venetis, Mechanical Engineer, MSc, Managing Director, Trane Technologies, TRANE HELLAS



Birth on 17<sup>th</sup> January 1974

- Studies Mechanical Engineering at National Technical University of Athens
- Working Background :
  - 4 years at the factory of FYROGENIS SA
  - 21 years at TRANE ΕΛΛΑΣ covering through these years many different positions

Title of presentations: **Heating electrification in industry**

Electrification of heating for industrial applications using heat recovery and cascade systems with heat pumps and high temperature boosters.