



Brief Academic Profile

Dr. Alexandros Flamos, Full Professor

Director of Technoeconomics of Energy Systems Laboratory

University of Piraeus

Dr. Alexandros Flamos is Full Professor at the University of Piraeus (UNIP), director of the Technoeconomics of Energy Systems Laboratory of UNIP. He has a Degree on Electrical and Computer Engineering and a PhD in the area of Decision Support Systems applied in energy and environmental policy and planning. He teaches Energy Economics, Energy Technologies & Environment, Utilization of Renewable Energy Sources (RES), Management of Energy Sources, Engineering Economics & Technoeconomics of Energy Systems at graduate and post graduate level at UNIP and at the National Technical University of Athens (NTUA). He has over 20 years of working experience in the scientific areas of Decision Support Systems (DSS), Energy Management & Planning and their applications for analyzing energy and environmental policy, energy and environmental modeling, security of energy supply and energy pricing competitiveness. He has held the position of scientific coordinator / senior researcher in more than **50 European Commission (EC) and other internationally funded projects (DG RELEX, EACI, DG R&D, EuropeAid, European Investment Bank, DG Energy, SFOE etc.)** related to energy systems management, appraisal, planning etc. and as consultant in projects funded by international donors (European Investment Bank, EuropeAid, etc.). He has more than **150** publications in high impact international scientific Journals and international conferences and as invited speaker in major international energy policy cooperation events (MENAREC, Euro-Asia meetings, COPs etc). More specifically, as single author or co-author of more than **90 articles in (peer-review) scientific journals**, 8 chapters in scientific books (collection of papers following review), more than **60** announcements in international scientific conferences and more than **20** international policy cooperation events. He has won several **awards** (highly commended award winner at the literati network awards for excellence, 2010 & 2011, Thomaidio best doctoral thesis, 2005, scholarship of outstanding performance, most downloaded article etc.). His scientific publications have more than 5000 citations – Scopus: **h-index: 30**, Google scholar: **h-index: 33, i-10index: 80** with an increasing **dynamic (most publications / citations within last 5-years)**. He has strong acquired strong Editorial expertise as Editor in Chief at **Energy Sources Part B scientific journal (IF>3)**, member of the **IJESM Editorial Advisory Board**, Guest Editor of five (5) special issues in knowledgeable journals and Editor of two Springer Books: “Understanding risks and uncertainties in energy & climate policy” which was included in the lists of top books of Springer with more than **150k** downloads and recently (April 2024) the “Positive Tipping Points Towards Sustainability” with (already) more than **25k** downloads. Finally, he has received **honorary invitations and financing** for the participation as speaker in International Events/ Forums and international evaluator of research proposals and scientific publications at knowledgeable publishers.



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Main areas of expertise / interests / in-house capacities of research laboratory on Technoeconomics of Energy Systems include:

- ✓ Energy policy and planning at national & community level
Energy demand, energy supply, least cost planning, administration of energy systems, energy co-operation, international energy policy cooperation, promotion of EU energy policy and the European Energy Charter, energy networks, establishment and management of regional, national and multinational energy centres.
- ✓ Energy planning at urban, local & regional level
Development of regional energy planning procedures, establishment of regional energy plans, management of regional energy centres and institutional support.
- ✓ Energy efficiency, promotion of energy technologies
Market assessment for energy efficient and environmental friendly technologies, promotion of market penetration of these technologies, energy management and efficiency in SMEs, institutional support for energy technology development.
- ✓ Energy / Environment models and tools
Integration of the environmental dimension in the development of energy modelling devices, customised data bases and decision-making support tools, for the development and application of energy - environmental policies.

Indicative articles of TEEM Modeling Suite:

- ⇒ Energy Policy Journal entitled: **A transdisciplinary modeling framework for the participatory design of dynamic adaptive policy pathways** - <https://www.sciencedirect.com/science/article/pii/S0301421520301075>
- ⇒ Energy Conversion & Management Journal about **DREEM, A modular high-resolution demand-side management model to quantify benefits of demand-flexibility in the residential sector.** <https://www.sciencedirect.com/science/article/pii/S0196890419313469?via%3Dihub>
- ⇒ Applied Energy Journal **quantifying uncertainty of agents and exploring PV capacity additions from net-metering and self-consumption with storage:** <https://www.sciencedirect.com/science/article/pii/S0306261919314825>

In addition to projects with a dominant research component (eg. EC FP R&D, H2020 projects), Prof. A. Flamos has participated as key expert, energy economist, Trainer etc. in significant technical assistance projects funded by international donors such as European Investment Bank, EuropeAid etc. This experience is not included in the current brief bio – however, it can be provided upon request.

Public profiles are following:

<https://www.linkedin.com/in/dr-alexandros-flamos-a38b0b21/>

<https://teeslab.unipi.gr/team/alexandros-flamos/>

<https://scholar.google.com/citations?user=t-YfxT4AAAAJ&hl=en>