


# Nestor Fylaktos

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## WORK EXPERIENCE

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### Assoc. Research Scientist

*The Cyprus Institute* [ 20/01/2017 – Current ]

Address: Nicosia (Cyprus)

City: Nicosia

- **Business or sector:** Professional, scientific and technical activities

#### Main tasks:

- Member of the Research team in the Energy Planning and Analysis Group (EPA) within the Cyl Energy Division
- Scientific Project management (as PI and WP leader)
- Coordination duties for Cyl's Energy Division
- Proposal writing (mostly European and national funding bodies)
- Scientific reports, publications and dissemination in energy and technoeconomics
- Energy systems modelling
- Junior scientists management and mentoring
- Institutional development
- Recruitment

### Post-Doctoral Fellow

*The Cyprus Institute* [ 20/01/2013 – 19/01/2017 ]

Address: Nicosia (Cyprus)

#### Main tasks:

- Energy systems modelling
- Scientific reports and publications in energy and technoeconomics
- Proposal writing (mostly European and national funding bodies)
- Scientific dissemination (presentations and general outreach)
- Institutional development

### Project Engineer

*Nova Energia Ltd.* [ 01/10/2009 – 01/12/2012 ]

Address: Limassol (Cyprus)

#### Main tasks:

- Project design
- Project management
- Renewable plant monitoring

## **Health & Safety Consultant**

**Management Force (Cyprus) Ltd.** [ 01/11/2007 – 01/04/2008 ]

Address: Limassol (Cyprus)

### Main tasks:

- Monitoring of construction work
- Drafting of H&S reports

## **University research assistant**

**Imperial College** [ 01/02/2006 – 01/10/2006 ]

Address: London (United Kingdom)

### Main tasks:

- Scientific paper editing
- Reference management and general tasks

## **Internship**

**Technological Educational Institute of West Macedonia** [ 01/03/1998 – 01/10/1998 ]

Address: Kozani (Greece)

### Main tasks:

- Atmospheric monitoring unit data collection and analysis

## **EDUCATION AND TRAINING**

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### **Ph.D**

**Imperial College** [ 01/10/2004 – 01/06/2009 ]

Address: London (United Kingdom)

**Field(s) of study:** Natural sciences, mathematics and statistics : *Environmental sciences Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics*

**Level in EQF:** EQF level 8

**National classification:** PhD

**Thesis:** The effect of the use of Solar Home Systems on the income-generating capabilities of rural household

Research degree on rural energy and income generation in developing countries (fieldwork in South Africa). Tested (via a structural equation model) the income-generation capabilities of isolated communities utilising stand-alone renewable energy systems.

### **MSc Energy Studies**

**University of Sheffield** [ 01/09/2000 – 01/09/2001 ]

Address: Sheffield (United Kingdom)

**Field(s) of study:** Natural sciences, mathematics and statistics : *Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics*

**Final grade :** 82.5/100 – **Level in EQF:** EQF level 7

**National classification:** MSc

Energy economics, energy supply and demand, statistical methods, energy markets, fuels & emissions, renewables.

## **BEng Electrical Engineering**

**University of Southampton** [ 01/09/1998 – 01/09/2000 ]

Address: Southampton (United Kingdom)

Level in EQF: EQF level 6

### Main topics:

Electric circuits, energy systems, power generation, control theory, mathematics, physics

## **BEng (TE) Electrical Engineering**

**Technological Educational Institute of West Macedonia** [ 01/09/1992 – 01/06/1998 ]

Address: Kozani (Greece)

Level in EQF: EQF level 5

### Main topics:

Electric circuits, electric installations, power electronics, mathematics, physics

## **LANGUAGE SKILLS**

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Mother tongue(s): **Greek**

Other language(s):

### **English**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

### **Spanish**

**LISTENING B1 READING B1 WRITING B1**

**SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2**

## **DIGITAL SKILLS**

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### **Office productivity**

Microsoft Word / Microsoft Excel / Outlook / Power Point / Google Docs / Latex Software / Project Management Tools (MS Project, Open Project, Project Libre,...) / Reference Management softwares Zotero EndNote Mendeley / Microsoft Office / Organizational and planning skills

### **Online collaboration**

Microsoft Teams - Work From Home / Management tools (JIRA Confluence) / Skype / Zoom / Google Drive

### **Social Media**

Social Media Management (Facebook Twitter LinkedIn YouTube Instagram) / LinkedIn

### **Statistical analysis**

SPSS Statistical Tool

### **Web Developing**

Squarespace, Wordpress

### Scientific Journal Publications

1. Zachariadis, T., Giannakis, E., Taliotis, C., Karmellos, M., **Fylaktos, N.**, Howells, M., Blyth, W., Hallegate, S., 2021. "Building Back Better" in Practice: A Science-Policy Framework for a Green Economic Recovery after COVID-19 (Policy Research Working Paper No. 9528). World Bank Climate Change Group.
2. Karmellos, M., Kosmadakis, V., Dimas, P., Tsakanikas, A., **Fylaktos, N.**, Taliotis, C., Zachariadis, T., 2021. A decomposition and decoupling analysis of carbon dioxide emissions from electricity generation: Evidence from the EU-27 and the UK. *Energy* 231, 120861. <https://doi.org/10.1016/j.energy.2021.120861>
3. Taliotis, Constantinos, Elias Giannakis, Marios Karmellos, **Nestor Fylaktos**, and Theodoros Zachariadis. 'Estimating the Economy-Wide Impacts of Energy Policies in Cyprus'. *Energy Strategy Reviews* 29 (1 May 2020): 100495. <https://doi.org/10.1016/j.esr.2020.100495>.
4. Taliotis, Constantinos, **Nestor Fylaktos**, George Partasides, Francesco Gardumi, Vignesh Sridharan, Marios Karmellos, and Costas N. Papanicolas. 'The Effect of Electric Vehicle Deployment on Renewable Electricity Generation in an Isolated Grid System: The Case Study of Cyprus'. *Frontiers in Energy Research* 8 (2020). <https://doi.org/10.3389/fenrg.2020.00205>.
5. Papanicolas, C., M. A. Lange, **N. Fylaktos**, Alaric Montenon, G. Kalouris, N. Fintikakis, M. Fintikaki, et al. 'Design, Construction and Monitoring of a near-Zero Energy Laboratory Building in Cyprus'. *Advances in Building Energy Research*, 25 February 2015, 1–11. <https://doi.org/10.1080/17512549.2015.1014837>.
6. **Fylaktos, N.**, I. Mitra, G. Tzamtzis, and C.N. Papanicolas. 'Economic Analysis of an Electricity and Desalinated Water Cogeneration Plant in Cyprus'. *Desalination and Water Treatment*, 23 July 2014, 1–18. <https://doi.org/10.1080/19443994.2014.940219>.

### Scientific Reports

1. Drobinski, P., Azzopardi, B., Ben Janet Allal, H., Bouchet, V., Civel, E., Creti, A., Duic, N., **Fylaktos, N.**, Mutale, J., Pariente-David, S., Ravetz, J., Taliotis, C., (2020). Energy transition in the Mediterranean, in: Cramer, W., Guiot, J., Marini, K. (Eds.), *Climate and Environmental Change in the Mediterranean Basin – Current Situation and Risks for the Future. First Mediterranean Assessment Report*. Union for the Mediterranean, Plan Bleu, UNEP/MAP, Marseille, France.
2. **Fylaktos, N.** and Papanicolas, C. N. (2019) *New technologies for Eastern Mediterranean offshore gas exploration*. STOA technical reports PE 634.419. Nicosia, Cyprus: Scientific Foresight Unit (STOA). doi: [10.2861/1/617596](https://doi.org/10.2861/1/617596).
3. Taliotis, C. and **Fylaktos, N.** (2019) *Analysis of future scenarios for the Cyprus energy system*. JRC/IPR/2018/C. 3/0034/NC. Nicosia, Cyprus: Joint Research Centre of the EC.
4. Paltsev, Sergey, Frank O'Sullivan, Nathan Lee, Anna Agarwal, Mingda Li, Xuejing Li, and **Nestor Fylaktos**. (2013) *Natural Gas Monetization Pathways for Cyprus: Interim Report – Economics of Project Development Options*. Cambridge, MA: MIT Energy Initiative, Massachusetts Institute of Technology. Available at: [http://mitei.mit.edu/system/files/Cyprus\\_NG\\_Report.pdf](http://mitei.mit.edu/system/files/Cyprus_NG_Report.pdf).

### Conference Papers

1. Παπανικόλας, Κ. Ν., Γεωργίου, Μ. and Φυλακτός, Ν. (2019) 'Συμπαράγωγη Ηλεκτρισμού Και Αφαλατωμένου Νερού', in Χριστοφόρου, Λ. (ed.). *Ενέργεια και Ύδωρ στην Ελλάδα*, Αθήνα: Επιτροπή Ενέργειας της Ακαδημίας Αθηνών.
2. Taliotis, C., Fylaktos, N. and Gardumi, F. (2019) 'The effect of electric vehicle deployment on renewable electricity generation in an isolated grid system: the case study of Cyprus', in. *2019 International Energy Workshop*, Paris, France.
3. Montenon, A. et al. (2016) 'Concentrated Solar Power in the Built Environment', in. *SolarPaces 2016*, Abu Dhabi, UAE.
4. Fylaktos, N. and Papanicolas, C. N. (2016) 'Technoeconomic analysis of the PROTEAS research infrastructure facility', in. *5th International Conference on Renewable Energy Sources & Energy Efficiency - New Challenges*, Nicosia, Cyprus.
5. Fylaktos, N. et al. (2014) 'Economic analysis of an electricity and desalinated water cogeneration plant in Cyprus', in. *EDS Conference and Exhibition on Desalination for the Environment, Clean Water and Energy*, Limassol, Cyprus.
6. Fylaktos, N. and Cherni, J. A. (2011) 'The effect of the use of Solar Home Systems on the income-generating capabilities of rural households of developing countries: Evidence from South Africa', in. *3rd International Conference on Renewable Energy Sources and Energy Efficiency*, Hilton hotel, Nicosia, Cyprus, pp. 259–278.

## Other Articles

1. Friedrich-Ebert-Stiftung, PRIO Cyprus Centre, 2021. Eastern Mediterranean Natural Gas and the Energy Future.
2. T. Zachariadis, N. Fylaktos, E. Giannakis, C. Taliotis, M. Karmellos, M. Howells, W. Blyth, S. Hallegate, Integrating climate policies in COVID-19 economic recovery packages – An example from Cyprus, World Bank Blogs. (2020). <https://blogs.worldbank.org/climatechange/integrating-climate-policies-covid-19-economic-recovery-packages-example-cyprus>.
3. Dufour, E., Fylaktos, N., Stemmer, J., & Nitz, P. (2019). Solar Heat for Industrial Processes: Establishment of a European Common Innovation and Research Agenda. European Energy Innovation, (Winter 2019). Retrieved from <http://www.europeanenergyinnovation.eu/PDF-Publications>
4. Fylaktos, N. (2014, February). The Future Of Energy In Med Countries: It Is A Marathon, Not A Sprint. Agora MedSpring 3rd Newsletter. Retrieved from <http://www.medspring.eu/content/future-energy-med-countries-it-marathon-not-sprint-dr-nestor-fylaktos>
5. Fylaktos, N. (2012, December). Net-metering and PV: Is it actually a good idea? Accountancy Cyprus, Nicosia, Cyprus.
6. Fylaktos, N. (2012, March). Calculation of the cost of electricity generation from Photovoltaic parks in Cyprus. Accountancy Cyprus, pp. 96–98. Nicosia, Cyprus.
7. Fylaktos, N. (2011, December 24). Net metering για φωτοβολταϊκά. Kathimerini of Sunday. Nicosia, Cyprus.

## PRESENTATIONS

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### Invited Talks

1. Fylaktos, N. (2019, October 29). Environmental Considerations of Technical Innovations in Offshore Gas Exploration in the Eastern Med. Invited talk presented at the IOGP conference: From North Sea to Eastern Mediterranean: Collaborating to MAXimize the Potential of Hydrocarbon Resources, Landmark hotel, Nicosia.
2. Fylaktos, N. (2018, October 21). Environmental Considerations of Technical Innovations in Offshore Gas Exploration in the Eastern Med. Presented at the CYPGasTech 2018, Limassol, Cyprus.
3. Fylaktos, N. (2015, March 18). Cyprus and Global LNG Markets. Presented at the 2015 Eastern Mediterranean Gas Conference, Hilton hotel, Nicosia, Cyprus.
4. Fylaktos, N. (2013, December 18). Natural Gas Monetization Pathways for Cyprus. Presented at the Workshop on Fiscal Policy Challenges of Hydrocarbon Exploration in Cyprus, University of Cyprus, Nicosia.

### On Hydrocarbons

1. Fylaktos, N., & Papanicolas, C. N. (2018, June 14). New technologies for Eastern Med offshore gas exploration. STOA technical presentation to the EU parliament presented at the STOA Panel meeting, Strasbourg, France.
2. Fylaktos, N., & Papanicolas, C. N. (2013, November 22). Export Options: Economic Evaluation of Converting Natural Gas to Electricity. Presented at the MIT - Cyl workshop: Maximizing the long-term value of Natural Gas for Cyprus, The Journalists' House, Nicosia, Cyprus.
3. Fylaktos, N. (2013, April 9). MIT-Cyl study, The value of Natural Gas resources for Cyprus: A scoping report. Presented at the 1st Eastern Mediterranean Gas Conference, Hilton hotel, Nicosia, Cyprus.

## On Solar Polygenerative Systems

1. Montenon, Alaric, Nestor Fylaktos, Fabio Maria Montagnino, Filippo Paredes, and Costas N. Papanicolas. 'Concentrated Solar Power in the Built Environment'. Abu Dhabi, UAE, 2016.
2. Fylaktos, Nestor. 'Technoeconomic Analysis of the PROTEAS Research Infrastructure Facility'. presented at the 5th RESEE conference, Nicosia, Cyprus, 5 May 2016.
3. Papanicolas, C. N., & Fylaktos, N. (2015, June 3). The Case of Concentrated Solar Power in Cyprus and other Islands. Presented at the Institut français de Chypre Seminar on Solar Energy and Photovoltaics, University of Cyprus, Nicosia.
4. Fylaktos, N. (2014, May 12). Economic analysis of an electricity and desalinated water cogeneration plant in Cyprus. Presented at the EDS Conference and Exhibition on Desalination for the Environment, Clean Water and Energy, Limassol, Cyprus.
5. Fylaktos, N. (2013, October 8). Technoeconomic analysis of a CSP-DSW Solar Thermal Plant. Presented at the 2nd International Conference on Power Options for the Eastern Mediterranean Region, Hilton hotel, Nicosia, Cyprus.
6. Fylaktos, N. (2013, October 7). Small scale thermal solar district units for Mediterranean communities - The STS-MED project. Presented at the 2nd International Conference on Power Options for the Eastern Mediterranean Region, Hilton hotel, Nicosia, Cyprus.
7. Fylaktos, N. (2013, June 7). Technoeconomic analysis of a co-generation Solar Thermal Plant. Presented at the 4th International Conference on Renewable Energy Sources & Energy Efficiency, Hilton hotel, Nicosia, Cyprus.

## Other Presentations

1. Fylaktos, N. (2011, May 20). The effect of the use of Solar Home Systems on the income-generating capabilities of rural households of developing countries: Evidence from South Africa. Presented at the 3rd International Conference on Renewable Energy Sources and Energy Efficiency, Nicosia, Cyprus.

## PROJECTS

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### As Principal Investigator (PI)

1. Technical support on long-term energy modelling (LTEM), 2018-2019. Client: Joint Research Centre; Main project features: Updating energy system data and assumptions and conducting scenario analysis using OSeMOSYS

### As Work Package (WP) and Task Leader

1. Integrating National Research Agendas on Solar Heat for Industrial Processes (INSHIP, 2016-2020), Budget: €4m; H2020 research project. Main duties: Work Package leader for dissemination and outreach, IP issues and consolidation of national research policies on Solar Heat for Industrial Purposes
2. Solar Facilities for the European Research Area (SFERA-III, 2019-2022), Budget >€4m, H2020 research project. Main duties: Task leader for research network and utilisation of research funding and facilities. IP issues and consolidation of national research policies on Concentrated Solar Power.
3. Small-scale Thermal Solar district units for Mediterranean communities (2013-2017). Budget €3.5m. ENPI-CBC funded. Main duties: WP leader on Overseeing construction of 4 research facilities in MENA countries.

### As Analyst

1. Development of the OSeMOSYS Model to account for atmospheric pollutants and GHG emissions (2019). Client: EU Commission (funded by SRSS); Main project features: Conducting an impact assessment of the integrated National Energy and Climate Plan (NECP) for Cyprus
2. Impact assessment of the Cyprus integrated National Energy and Climate Plan (2019). Client: European Commission; Main project features: Conducting a detailed assessment of the impact of changes in the energy system of Cyprus on the emissions of atmospheric pollutants and greenhouse gases (GHG)

## Other Research Projects

1. Expert author in MedECC (Mediterranean Experts on Climate and environmental Change) on energy demand and supply projections for the MENA region
2. Main scientific contact and completion of tasks for the FP7 project 'EU-SOLARIS'
3. Main scientific contact and completion of tasks on economics, IPR and international relations for the FP7 project 'STAGE-STE'
4. Part of the scientific team on technoeconomic of the INTERREG project 'CSP-DSW'
5. Position in expert panel in Energy overseeing activities of the MedSpring FP7 project
6. Main contact in Cyprus for the MITei study 'Maximizing the Value of Natural Gas Resources for Cyprus', funded by RPF

## ORGANISATIONAL SKILLS

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### Competitive Proposal Authoring

1. *SIWAR proposal*: Principal proposal coordinator for the LC-SC3-RES-20-2020 H2020 call on *Efficient combination of Concentrated Solar Power and desalination (with particular focus on the Gulf Cooperation Council (GCC) region)*. **Main tasks**: Authoring of main parts of proposal document, budgeting, editing and proofreading, partner communication, preparation of all forms, submission.
2. Part of the authoring team of the successful application for the H2020 project 'NESTER' (€1.06m)
3. Part of the authoring team of the successful application for the H2020 project 'CySTEM' (€3.5m)
4. Main author of a European Joint doctorate (EJD) proposal for H2020
5. Part of team drafting commercialisation and innovation pathways for technology under development at the Cyprus Institute

**Mentoring**: 1 master's student, 1 summer intern (2019).

## MANAGEMENT AND LEADERSHIP SKILLS

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### Interim head of Energy Policy and Analysis Group of the Energy Division

Acted as interim head for a period of 1 year (summer 2019 to summer 2020) of the newly created EPA group, until the appointment of new faculty.

### Energy Division activities coordinator

Responsible for the organisation and delivery of weekly division presentations and discussions amongst the Energy Division of the EEWRC at the Cyprus Institute.

### Student mentoring

1. Supervision of masters' thesis of Nikolaos Therapos' thesis on the Sustainable Return of Investment (SuROI) indicator, University of Bocconi, Milan, 2020.
2. Supervision of Kyriakos Ioannou for three months in the summer of 2019, on his development of a paper on energy storage in sea water.

## NETWORKS AND MEMBERSHIPS

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### Scientific and Professional Bodies

- Coordinator of the CSP National Working Group for Cyprus
- Member of the Scientific Technical Chamber of Cyprus (ETEK) since 2009
- Member of the UK Energy Institute since 2001
- Certified auditor of the energy performance of buildings (Cyprus, 2012)

## HONOURS AND AWARDS

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### Honours and awards

- State Sponsorship Foundation (IKY) of the Hellenic Republic for graduate study (2004)

## TEACHING AND SUPERVISION

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### Teaching

- **Annually since 2016:** Annual lecture on the international NESTER school on 'Basics of CSP economics' (2016-2019)
- **Sep 2003 – Mar 2004:** Electrical circuit theory, Technological Employment Institutions, Thessaloniki, Greece
- **Sep 2002 - Aug 2003:** Part-time teacher of English as a foreign language, Evrognosi schools, Evosmos, Thessaloniki, Greece.

### Supervision

- **Master's level** thesis of Nikos Therapos on the use of Sustainable Return of Investment (SuROI) for the appraisal of renewable energy projects, Bocconi University, Milan (2020)
- **Summer internship** of Kyriacos Ioannou on the development of an energy storage using sea water, the Cyprus Institute (2019)

## OTHER ACHIEVEMENTS

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### Other achievements

- Liaison scientist between the Cyprus Institute and the Scientific Management Board for the Cyprus Climate Initiative (2019-present)
- Main contact in negotiation of enrolling Cyl in the Economic, Environmental and Societal Impact (e3s) of the EERA group
- Reviewer of the scientific papers for the SolarPACES 2016 conference
- Organiser of the 2013 'Natural Gas Pathways to Monetisation' workshop in Nicosia, Cyprus (Nov 2013)
- Organiser of the STS-Med project workshop and training schools (Oct 2014 and Apr 2016)
- Committees membership at the Cyprus Institute: IT modernisation; employee selection for new recruits at the energy group; organisation of the RESEE conference series (Nicosia, Cyprus); yearly colloquium and seminar series