

TRANSRISK: LESSONS LEARNT

FIGHTING AND ADAPTING TO CLIMATE CHANGE

Policy Co-Creation Workshop

on the impact of European research and innovation projects

April 28th, 2021

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University of Piraeus Research Center (UPRC)

PARTNERSHIP

Who we are

SPRU - Science Technology Policy Research, University of Sussex	UK
BC3 - Basque Centre for Climate Change	ES
CE - Cambridge Econometrics	UK
ECN - Energy Research Centre of the Netherlands	NL
ETH Zurich - Swiss Federal Institute of Technology (funded by Swiss Gov't)	CH
IBS - Institute for Structural Research	PL
JIN - Joint Implementation Network	NL
NTUA - National Technical University of Athens	GR
SEI - Stockholm Environment Institute/ University of York	SE, KE
UniGraz - University of Graz	AT
TEESlab UPRC – University of Piraeus Research Center	GR
CLAPESUC - French Environment and Energy Management Agency	CL



Project Information

TRANSrisk

Grant agreement ID: 642260

[Project website](#)

Start date

1 September 2015

End date

31 December 2018

Funded under

H2020-EU.3.5.1.

Overall budget

€ 7 974 242,50

EU contribution

€ 7 454 017,50



Coordinated by

THE UNIVERSITY OF SUSSEX

 United Kingdom

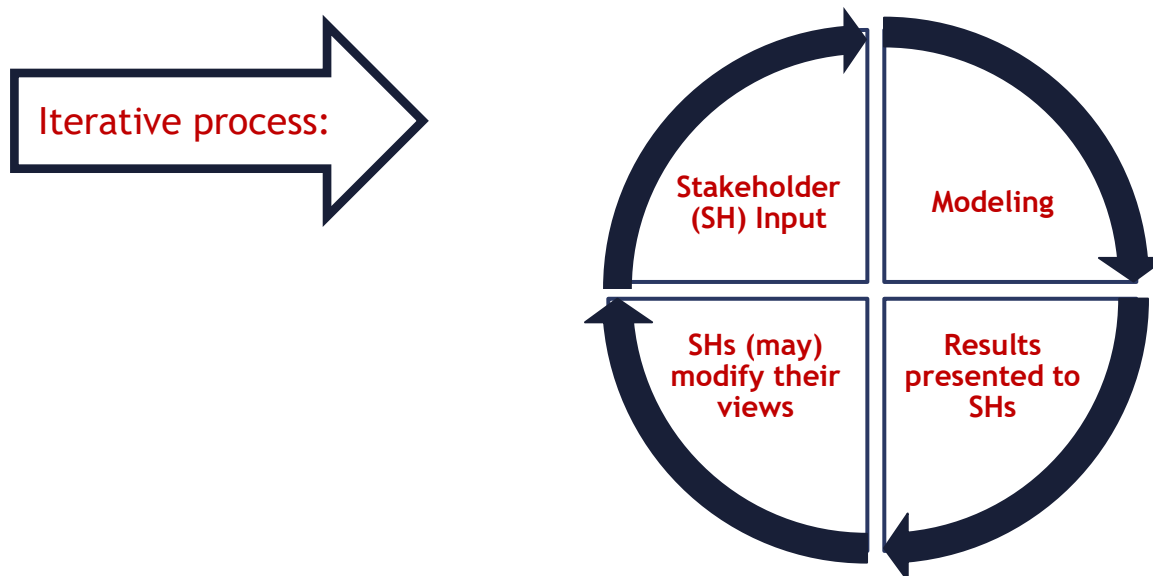
- **12** partners
- **70+** researchers
- Interdisciplinary team



OVERARCHING RESEARCH QUESTIONS

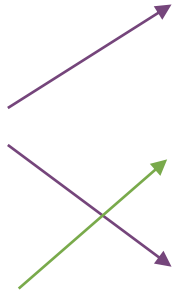
What are the **costs**, **benefits** and **risks** & **uncertainties** associated with *feasible* transitions pathways for climate change mitigation policies?

1. How should the **future** look like and how might we get there?
2. What **changes** are required for us to get to our **desired** future(s)?
3. What are the **policy options** based on the (national) context?



TRANSRISK PATHWAYS APPROACH

Stakeholder
inputs



1. Narratives Disaggregate (details)

- Where do we want to go?
- What *preferred* actions are needed to get there?
 - (e.g., technology, behavioral change, policies)

Quantitative
inputs



2. Model Scenarios Aggregate (generalisations)

- What resources are needed to get to the desire future?
 - (e.g., optimization models- back casting)
- How might the future look like if the changes and actions are to take place?
 - (e.g., simulation model- forecasting castings)

CASE STUDY COUNTRIES: AREAS STUDIED

**14 country
case studies**



Americas

1. Canada (SPRU)
2. Chile (CLAPESUC)



Europe

3. Sweden (SEI)
4. Netherlands (JIN)
5. UK (SPRU)
6. Poland (IBS)
7. Austria (Uni Graz)
8. Switzerland (ETHZ)
9. Spain (BC3)
10. Greece (NTUA/UPRC)

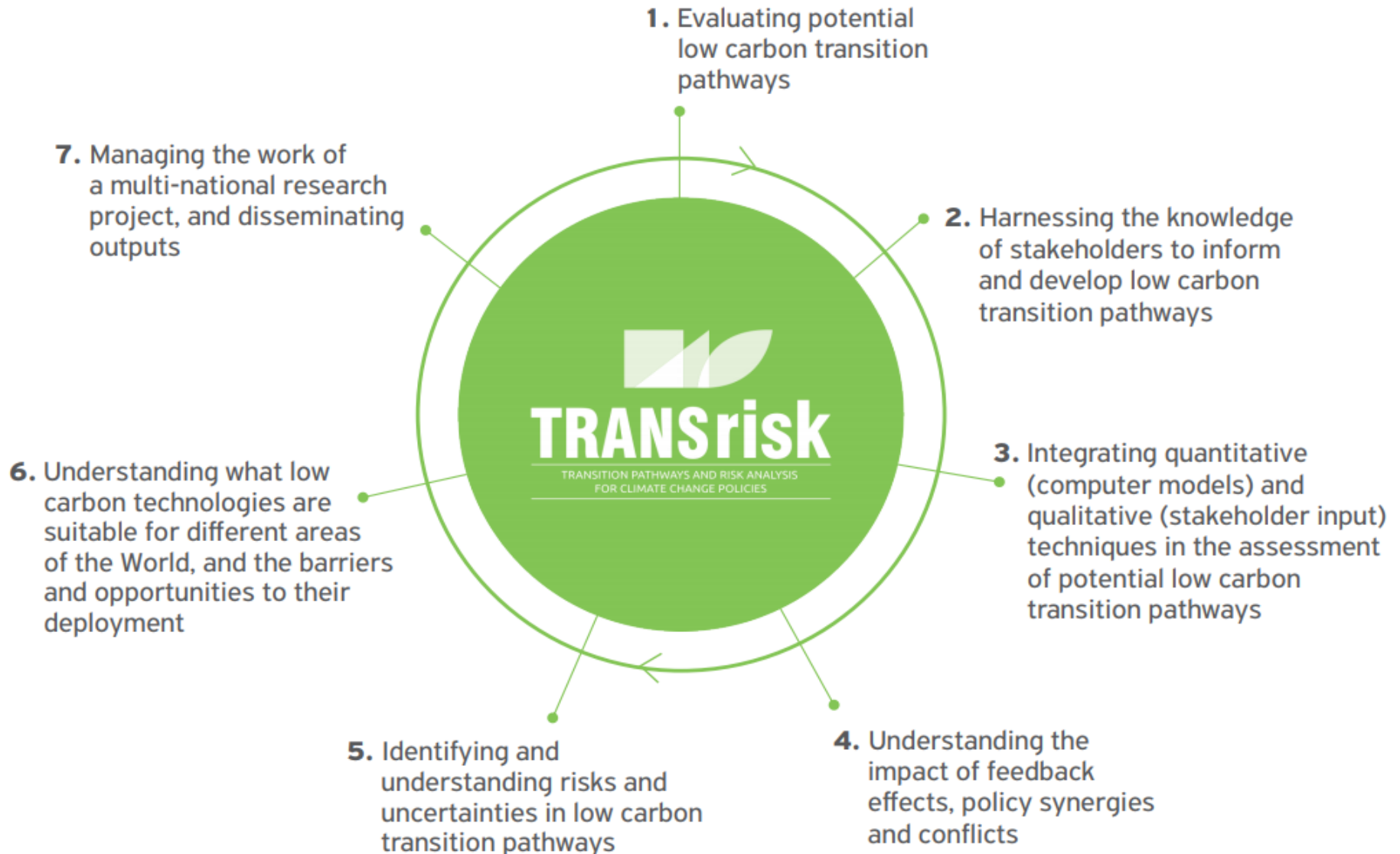
Africa

11. Kenya (SEI)

Asia

12. China (SPRU)
13. India (SPRU)
14. Indonesia (SEI)

ACHIEVEMENTS



DISSEMINATION & OUTREACH (1/2)

CURRENT STATUS OF D&C ACTIVITIES*

Logo and Graphic Guidelines	16 Partners' Newsletters
1 Flyer, 3 Leaflets, 1 Booklet	6 Infographics
9 Posters, 3 Presentations	26 Scientific Publications
6 QR codes, 8 Templates	45 Non-scientific & non-peer-reviewed publications
TRANSrisk Website (new material-updates)	18 TRANSrisk Workshops
4 TRANSrisk Social Networks	9 TRANSrisk Sessions at Conferences
Participation in 4 EU Platforms	5 Workshops organised jointly with other EU projects
13 TRANSrisk Videos	56 External events
11 TRANSrisk Newsletters	More than 200 links to TRANSrisk Website
10 TRANSrisk Press Releases	29 Synergies with other EU projects

*All **TRANSrisk** *Dissemination* material & *Information* on activities available at the website

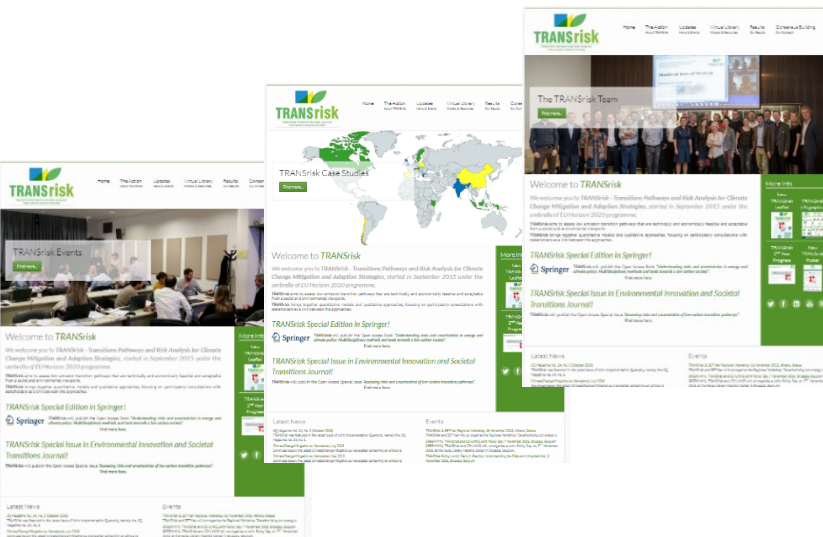
DISSEMINATION & OUTREACH (2/2)

#Research Cooperation Platforms

Climatechangemitigation.Eu (**23 articles**)

Capacity4dev.eu (**68 posts - 7,914 views**)

Energypedia (**40 reports - 7,073 views**)



#Dissemination Channels

Website (**10,453** Visitors - **18,615** Visits - **52,405**

Pageviews - **2,872** Report Downloads)

Mailing Lists (Newsletters, press releases)

Further promoted via **IISD Mailing Lists**

Social Networks:



27,706 Post reaches in Facebook

1,137,284 Impressions in Twitter

2,678 Video views on YouTube (**13** videos)

375 Group members in LinkedIn

215 References via Research Gate

ACADEMIC IMPACT

Methods: Book with Springer

[“Understanding risks and uncertainties in energy and climate policy: Multidisciplinary methods and tools towards a low carbon society”](#)

Editors: Doukas, H., Flamos A, Lieu, J,

>86k

★ Downloads



Integration of stakeholder and models: Special issue in Environmental Innovation and Societal Transitions. Elsevier.

[“Assessing risks and uncertainties of low-carbon transition pathways”](#)

Guest editors: Lieu J., Hanger-Kopp S, Sorman A., van Vliet O.

>120

★ Citations



POLICY IMPACT



Global overview
(risk & uncertainty in climate change policies)

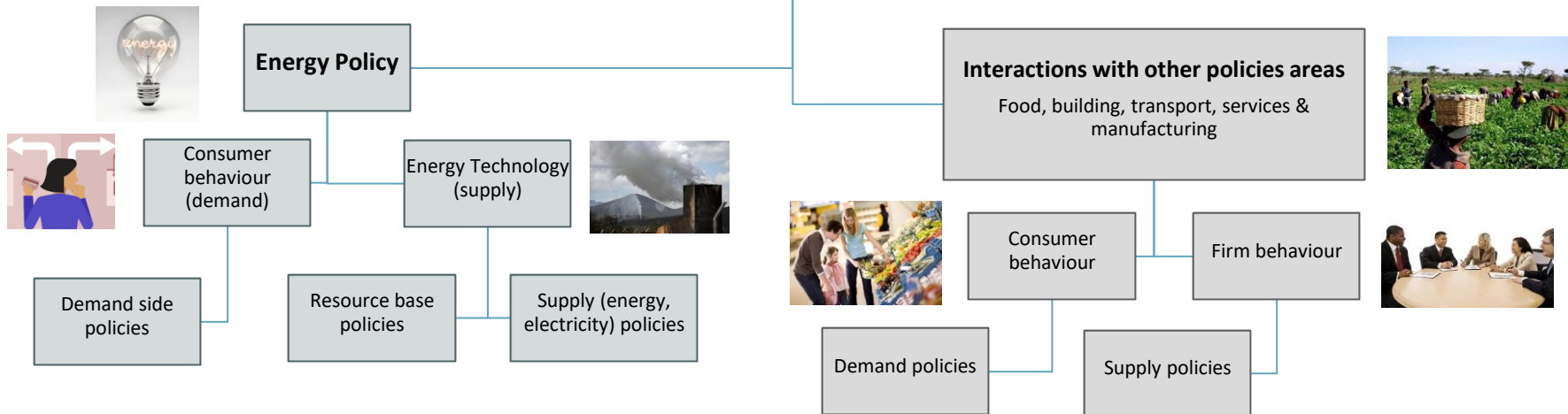


Special Report SR 1.5

Regional overview

(Sub)national overview

NDC (Nationally Determined Contribution)



Greece 4th National Energy Efficiency Action Plan

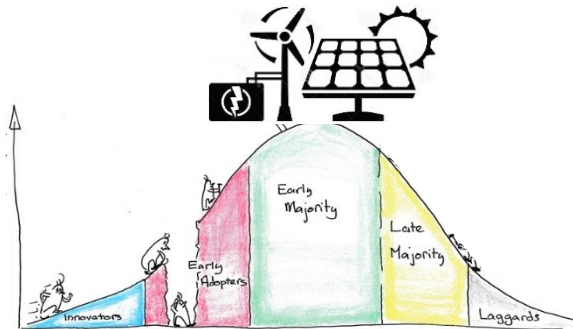


Kenya Geothermal & charcoal developments



Indonesia Biogas developments in Bali

IMPACT IN FURTHER RESEARCH (1/3)



**Technology
adoption**



Applied Energy
Volume 255, 1 December 2019, 113795



An agent-based model to simulate technology adoption quantifying behavioural uncertainty of consumers

Vassilis Stavrakas, Sotiris Papadelis, Alexandros Flamos  

★ **Consumer
behaviour**



Energy Conversion and Management
Volume 205, 1 February 2020, 112339



A modular high-resolution demand-side management model to quantify benefits of demand-flexibility in the residential sector

Vassilis Stavrakas, Alexandros Flamos  

**Demand-side
Management**



IMPACT IN FURTHER RESEARCH (2/3)



Energy Policy
Volume 139, April 2020, 111350



A transdisciplinary modeling framework
for the participatory design of dynamic
adaptive policy pathways

Serafeim Michas, Vassilis Stavarakas, Sotiris Papadelis, Alexandros Flamos  

 **Policy
adaptability**



**Easily linked
to other
models**



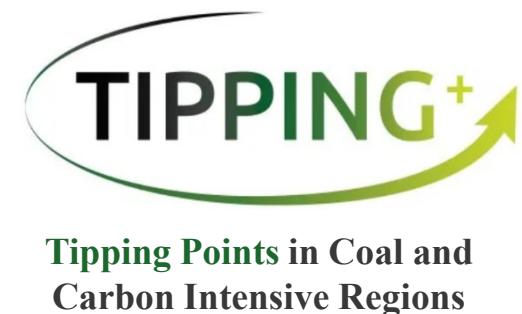
**Plug-in decision &
support toolbox**

IMPACT IN FURTHER RESEARCH (3/3)

Further funded by different ongoing **EC-funded H2020** & **SFOE** projects



Open-source energy
systems modelling platform
(EMP-E)



NEXT STEPS FORWARD...



HORIZON-CL5-2021-D1-01-05:

Better understanding of the interactions between **climate change impacts and risks**, **mitigation** and **adaptation** options

- Enhanced **understanding**, supported by **quantitative** and **qualitative** analysis, of the **interaction**, **complementarity** and **trade-offs** between **adaptation** and **mitigation** measures and policies helping to overcome the **silos** approach within and between them and leading to more effective climate action policies.
- Better **knowledge** about the **risk and impacts of climate change** and their **interaction** with **mitigation** pathways, including their **feasibility** across various scenarios of global warming.

FOR MORE INFORMATION...

Visit our Website:

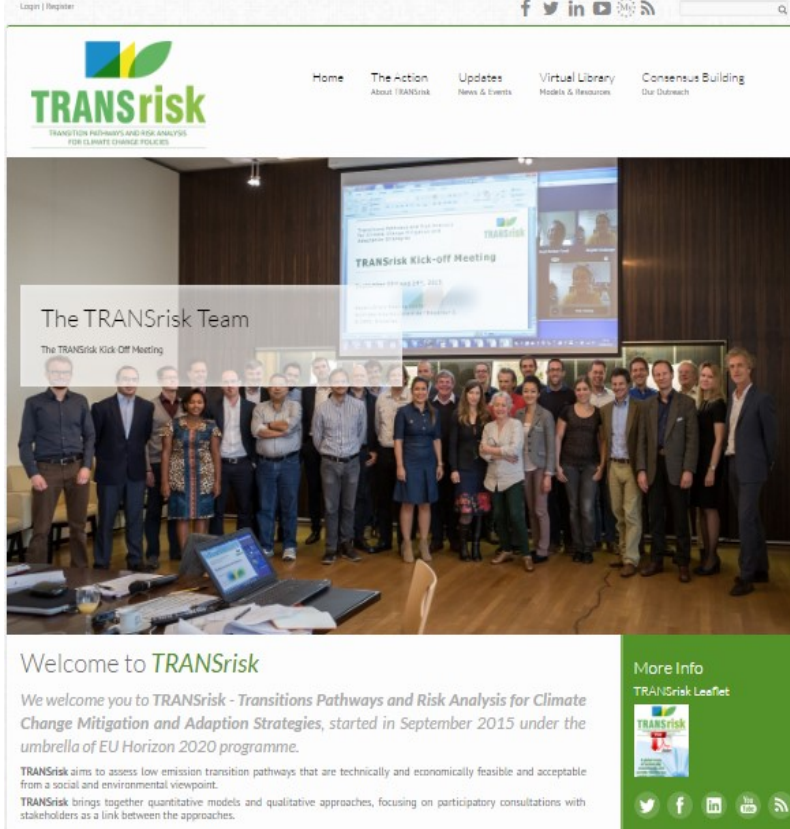
www.transrisk-project.eu

Like us on Facebook: [transriskEU](https://www.facebook.com/transriskEU)

Follow us on Twitter: [@TRANSrisk_EU](https://twitter.com/TRANSrisk_EU)

Find us in LinkedIn: [TRANSrisk_EU](https://www.linkedin.com/company/transrisk)

Watch us on YouTube: [TRANSrisk](https://www.youtube.com/channel/UC...)



The screenshot shows the homepage of the TRANSrisk website. At the top, there is a navigation bar with the TRANSrisk logo on the left and links for Home, The Action (About TRANSrisk), Updates (News & Events), Virtual Library (Models & Resources), and Consensus Building (Our Outreach) on the right. Below the navigation bar is a large photograph of the TRANSrisk team at a meeting. A semi-transparent text box over the photo reads "The TRANSrisk Team" and "The TRANSrisk Kick Off Meeting". Below the photo, the text says "Welcome to TRANSrisk" and "We welcome you to TRANSrisk - Transitions Pathways and Risk Analysis for Climate Change Mitigation and Adaptation Strategies, started in September 2015 under the umbrella of EU Horizon 2020 programme." There are two short paragraphs describing the project's goals. On the right side, there is a "More Info" section with a "TRANSrisk Leaflet" icon and social media icons for Twitter, Facebook, LinkedIn, YouTube, and RSS.



For More Information...

- **TEESlab**, the energy modelling, strategy and policy analysis laboratory of **University of Piraeus (UNIPi)**



Visit our Website:

<https://teeslab.unipi.gr/>



Contact us by e-mail:

aflamos@unipi.gr



Tweet us:

[@TEES_Lab](https://twitter.com/TEES_Lab)



Find us in LinkedIn:

www.linkedin.com/groups/12070918/



HOME THE LAB THE TEAM NEWS CONTACT US Q



UNIVERSITY OF PIRAEUS
TECHNOECONOMICS OF ENERGY SYSTEMS



Dr. Alexandros Flamos · 1st

Editor In Chief at Energy Sources, Part B: Economics, Planning, and Policy Scientific Journal ISI - Director of TEESlab



Thank you!

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Alexandros Flamos – aflamos@unipi.gr

Jenny Lieu - j.lieu-1@tudelft.nl

