

## Energy in Europe: Principles, Challenges, Paths Forward

Teacher(s)	Tomáš Vlček, Jan Osička, Veronika Zapletalová, Václav Bartuška, James Henderson, Helena Kodůusková, Lukáš Lehotský, Anežka Konvalinová		
Department/Faculty	Department of International Relations and European Studies, Faculty of Social Studies	Field/ Keywords	Energy policy; Energy security; EU; Energy transition; Energy markets; Supply security; Geopolitics; Energy poverty
Academic Level	Bachelor; Master; PhD;		
Credit value	2 ECTS	Academic contact	Tomáš Vlček, <a href="mailto:tomas.vlcek@mail.muni.cz">tomas.vlcek@mail.muni.cz</a>

### Course Description

Rapid transition to renewable energy, skyrocketing prices of electricity and natural gas, reliance on oil imports from authoritarian and openly hostile regimes, local opposition to new energy installations, increasing energy poverty, or looming impoverishment of once proud coal regions. These are just a few examples of major challenges faced by many countries around the world, including the European Union.

The presented summer school provides its students with deep insight into these challenges and, using interactive tools and in-class discussions, cultivates the students' ability to interpret them within the complex patchwork of European climate and energy policy.

The school spans over two weeks. The first week is dedicated to the socio-political and techno-economic characteristics of the European energy landscape and sets the stage for the second week, during which the contemporary challenges and paths forward are discussed. An integral part of the curriculum is a discussion session with the Czech Ministry of Foreign Affairs' Special Envoy for Energy Security and a session on Supply security and geopolitics led by James Henderson, Director of Natural Gas Programme of the Oxford Institute for Energy Studies.

The curriculum requires no specific previous knowledge, and all information is presented in non-technical language. Students of all fields and degrees are welcome.

The school is presented by professors of the Energy Policy Studies program, one of the leading energy research and education institutions in continental Europe, thus securing high academic standards and quality of the presented topics. The program's summer school has a ten-year history with 173 satisfied graduates of 35 nationalities from all around the world.

## Lecture Topics

### Week 1: Energy in Europe: The Basics (July 11-15, 2022)

- Mo 1) Electricity industry: how it works? I (T. Vlček)  
2) Electricity industry: how it works? II (T. Vlček)  
3) Electricity industry: how it works? III (T. Vlček)
- Tu 4) Introduction to electricity markets (J. Osička)  
5) Renewable energy: deployment and integration (J. Osička)  
6) Renewable energy: money and investment (J. Osička)
- We 7) Renewable energy: politics and society (J. Osička)
- Th 8) Conventional electricity generation I: coal industry in today's world (T. Vlček)  
9) Conventional electricity generation II: nuclear energy and nuclear fuel cycle (T. Vlček)
- Fr 10) EU energy policy principles I (V. Zapletalová/A. Konvalinová)  
11) EU energy policy principles II (V. Zapletalová/A. Konvalinová)

### Week 2: Energy in Europe: Challenges and Paths Forward (July 18-22, 2022)

- Mo: 12) Supply security and geopolitics I (J. Henderson)  
13) Supply security and geopolitics II (J. Henderson)  
14) Behind the scenes of the EU energy policy (V. Bartuška)
- Tu 15) Social movements for climate change (L. Lehotský)  
16) Social movements against energy projects (L. Lehotský)
- We 17) Energy efficiency and savings (L. Lehotský)  
18) Coal phase out in Europe (L. Lehotský)
- Th 19) Energy poverty: from the top-down and the bottom-up (H. Koďousková)  
22) Energy poverty in the EU: debate, legislation, divisions (H. Koďousková)
- Fr 21) Past transitions: lessons learned for today's challenges (H. Koďousková)  
22) Triangulating energy system's social demands: a conclusion (H. Koďousková)

Program changes reserved.

## Pre-Requisites

- The curriculum requires no specific previous knowledge, and all information is presented in non-technical language. Students of all fields and degrees are welcome.