Akademie věd České republiky

ENERGY DAYS 2026

Network Modeling: Current Trends in Stability, Reliability, and Optimization

Thursday 5th November 2026
Charles University, Fac. of Mathematics and Physics
Malostranské nám. 2/85, Praha 1; metro A : Malostranská

Friday 6th November 2026
Czech Statistical Office
Na padesátém 81/3268, Praha 10; metro A : Skalka
Czech Cultural Institute, Nekázanka 16, Prague 1
Praha 1; metro A

Saturday 7th November 2026
Czech Technical University, Fac. of Mechanical Engineering
Karlovo nám. 13, Praha 2; metro B : Karlovo náměstí

STRATEGY AV21
Top research in the public interest

FENStatS
Federation of European National Statistical Societies

Eustat

ČESKÝ STATISTICKÝ ÚŘAD

Schedule and Abstracts as of 5 November 2026

Thursday, 5 November 2026

Venue: Charles University, Faculty of Mathematics and Physics, Malostranské nám. 2/85, Prague 1 - Malá Strana
Malostranská metro station (Line A), one tram stop or a 5-minute walk

13:00 – 14:00	**Get-Together and Icebreaker**
14:00 – 14:05	**Opening**
14:05 – 15:45	**Invited Lectures (Juchelková, Lewandowski, Lízal, Míl, Řežábek)**
15:45 – 16:15	**Coffee Break**
16:15 – 18:00	**Round Table Discussion**
18:00 –	**Guided tour of the historic building, Discussion over a glass of beer**

Friday, 6 November 2026

Venues: Czech Statistical Office, Na padesátém 81/3268, Prague 10
Skalka metro station (Line A), a 3-minute walk

Evening Discussion: Jan Deyl Conservatory of Music, Maltézské námestí 14, Prague 1 - Malá Strana
Malostranská metro station (Line A), one tram stop or a 5-minute walk

Registration starts at 8:30	
8:45 – 8:50	**Opening**
8:50 – 13:00	**Invited and Contributed Lectures**
13:00 – 14:00	**Lunch**
14:00 – 17:30	**Invited and Contributed Lectures**
18:00 – 21:00	**Evening Discussion at Jan Deyl Conservatory of Music**

Saturday, 7 November 2026

Venue: Czech Technical University, Faculty of Mechanical Engineering, Karlovo náměstí 13, Prague 2 - Nové Město
Karlovo náměstí metro station (Line B)

Registration starts at 8:45	
9:00 – 9:05	**Opening**
9:05 – 12:00	**Contributed Lectures and Discussion**

Schedule as of 5 November 2026

	Thursday 5 November 2026	
13:00 - 14:00	Jaromír Antoch	Get-Together and Icebreaker
14:00 - 14:05	Jiří Sgall	Opening
14:05 - 14:25	Mateusz Lewandowski	TAURON's long-term energy transition strategy
14:25 - 14:45	Pavel Řežábek	Significant trends in energy markets
14:45 - 15:05	Dagmar Juchelková	Waste-to-energy or wasting energy
15:05 - 15:25	Jaroslav Míl	Why are small modular reactors emerging?
15:25 - 15:45	Lubomír Lízal	Winter challenge and energy adequacy mismatch
15:45 - 16:15	coffee break	
16:15 - 18:00	Jiří Plešek	Round table discussion
18:00 - 18:30	Jaromír Antoch	Guided tour of the faculty's historic building
18:30 -	U Mecenáše	The evening will conclude with informal discussions over a glass of Czech beer in a traditional Prague pub
	Friday 6 November 2026	
8:30 -	Karolína Pappi	registration
8:45 - 8:50	Martina Litschmanová	Opening
8:50 - 9:15	Jaroslav Sixta	The impact of the energy transition on the macroeconomic statistics of CSO
9:15 - 9:45	Jiří Michalík	Energy wrestling of new energy experts
9:45 - 10:15	Peter Štibraný	Renovation of public buildings using a strategy based on statistics
10:15 - 10:45	David Hartman	Data-driven forecasting and optimization in modern energy systems
10:45 - 11:00	coffee break	
11:00 - 11:30	Jana Jůnová	Multi-horizon capacity expansion planning of a virtual power plant
11:30 - 12:00	Robin Gřunděl	When electricity loses its value: Smart home energy management in practice
12:00 - 13:00	Vladimír Wágner	Is the nuclear renaissance finally beginning globally and at home?
13:00 - 14:00	lunch	
14:00 - 14:50	Francesco Zanini	Photovoltaic energy in Italy
14:50 - 15:40	Florian Sobieczky	Dependence of profit and risk on model accuracy in predictive maintenance
15:45 - 16:00	coffee break	coffee break

16:00 - 16:30	Valerio Piersimoni	Forecasting lithium-ion battery state of health
16:30- 17:00	Serhii Myskiv	When demand is hidden. Evaluating electricity forecasts under load shedding
17:00 - 17:30	Milan Smutný	The security, self-sufficiency and affordability of energy supplies in CZ
18:00 - 21:00	Tomáš Reindl	Concert
	Saturday 7 November 2026	
8:45 -	Karolína Pappi	registration
9:00 - 9:05	Gejza Dohnal	Opening
9:05 - 9:40	Jaromír Antoch	Statistical process control as a tool for directing inspection and maintenance
9:40 - 10:20	Ivo Bukovský	Beyond local linearization: Monitoring dynamical stability in energy systems
10:20 - 10:35	coffee break	
10:35 - 11:05	Eliška Cézová	Control EWMA chart for real-time energy consumption monitoring
11:05 - 11:45	Zdeněk Fabián	Stein's method for comparing probability distributions
11:45 - 12:00	Gejza Dohnal	Closing discussion

Local Organizing Committee

Jaromír Antoch, *Charles University*
Lucie Bartoňová
Eliška Cézová, *Czech Technical University*
Gejza Dohnal, *Czech Technical University*
Karolina Pappi
Iveta Stankovičová, *Slovak Statistical Demographic Society*
Ondřej Vozár, *Czech Technical University and FIS VŠE Praha*

Scientific Program Committee

Jaromír Antoch, *Charles University*
Gejza Dohnal, *Czech Technical University*
Miloš Kopa, *Charles University*
Martina Litschmanová, *Czech Statistical Society*
Emil Pelikán, *Czech Academy of Sciences*
Iveta Stankovičová, *Slovak Statistical Demographic Society*
Ondřej Vozár, *Czech Technical University and FIS VŠE Praha*

contact email info@energy-days.cz/
registration, program and other information https://energy-days.cz/

Akademie věd České republiky

STRATEGY AV21
Top research in the public interest

FENStatS Eustat
Federation of European National Statistical Societies

ČESKÝ STATISTICKÝ ÚŘAD

Strategy AV21

Top research in the public interest is the motto of the strategy of the Czech Academy of Sciences, which presents itself more strongly as an institution whose primary mission is high quality research focused on the problems and challenges faced by contemporary society. Topics such as the **future of energy in the Czech Republic**, public health or the quality of public policies involve complex sets of problems, the solution of which requires broad-based interdisciplinary research. The Czech Academy of Sciences has therefore adopted Strategy AV21 based on a set of coordinated Research Programs utilizing interdisciplinary and inter-institutional synergies to identify the problems and challenges of our time and to harmonize the efforts of research institutes of the Czech Academy of Sciences towards their solutions.