Interdisciplinary Winter Summer School 2025

Seminar paper

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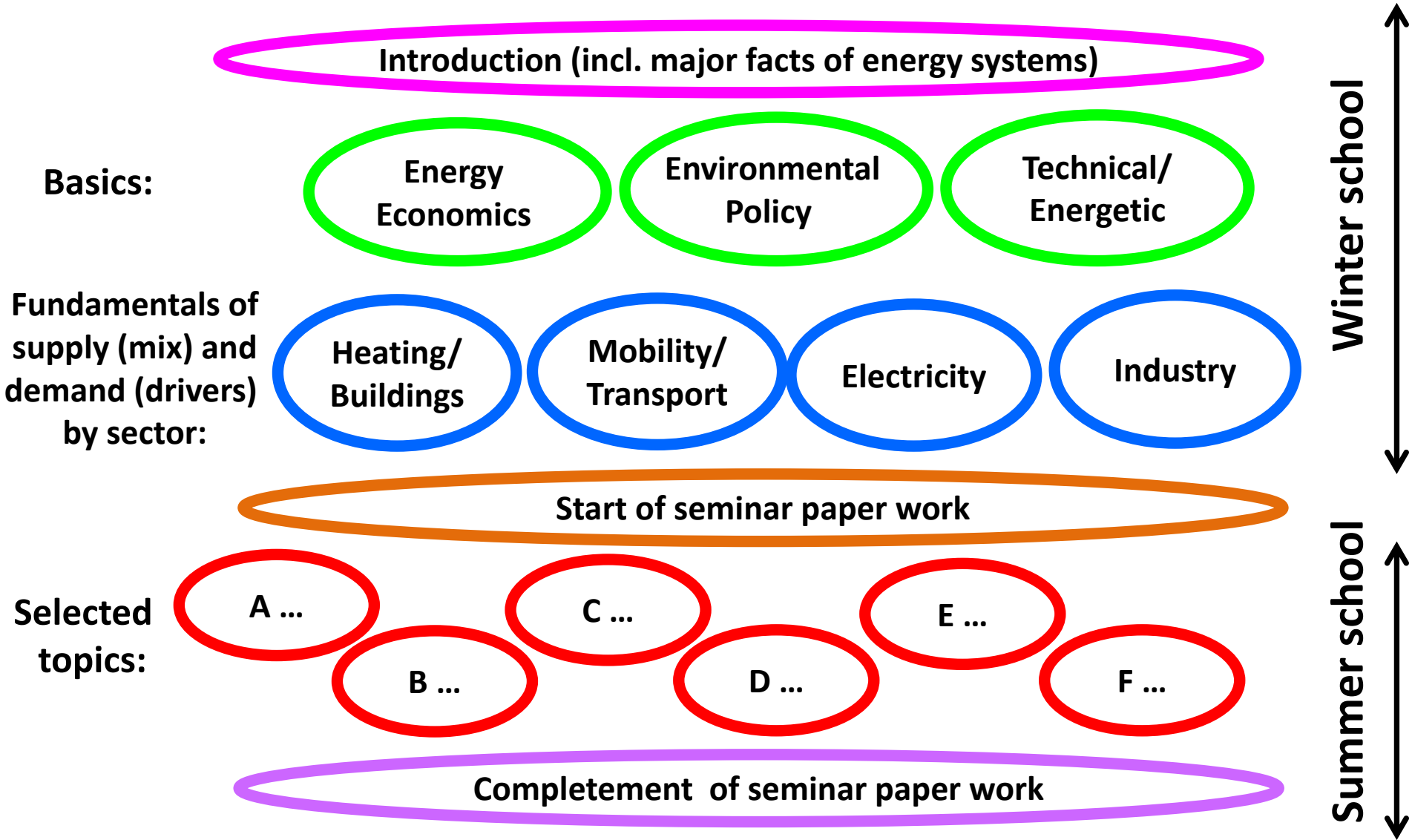
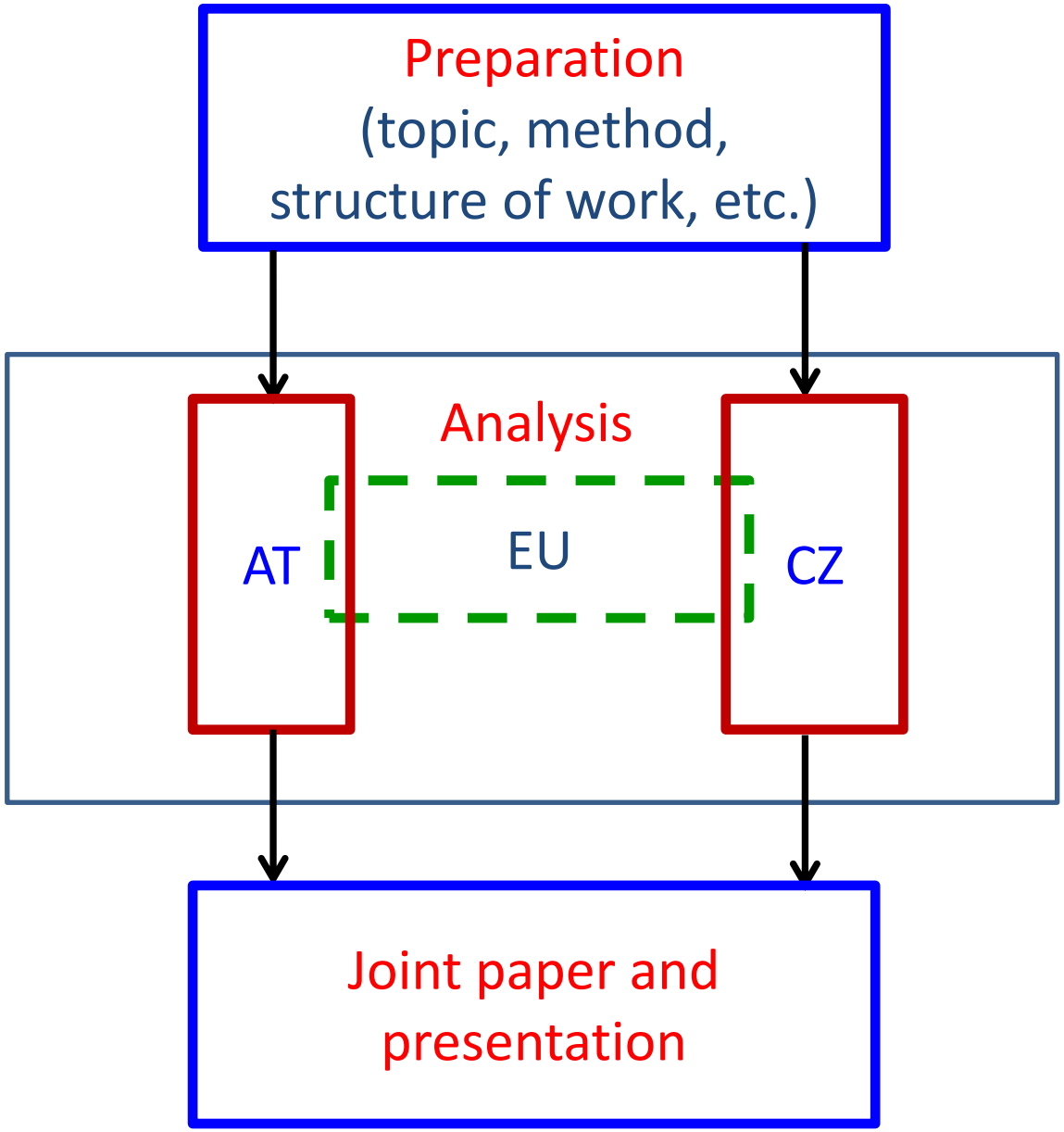
ENERGY SYSTEMS

Basic structure of CZ-AT Winter and Summer School on „Energy Systems in Austria and the Czech Republic “



Joint seminar work



How to Write a Paper

Seminar paper

1. Select **topic**

*2. Create **bilateral group** (AT-CZ)*

Making an Outline

Begin your research

- ✓ ***Data:*** *journal articles, books, academic databases, Web pages, etc.*

Make an Outline (ca. 2 pages) - **07.03.25**

- ✓ *Introduction*
- ✓ *Core objective*
- ✓ *Method & major data/literature*
- ✓ *Work structure*
- ✓ *Discuss your outline with your supervisor*

Write your paper

Structure of a Seminar Paper

1. Title

   ✓ select an informative title

2. Abstract

   ✓ summary of your work
   ✓ ca. 300 words
   ✓ Incl. the rationale behind the study, method of approach, major results and conclusions

Structure of a Seminar Paper

3. Introduction

- ✓ Motivation
- ✓ Hypothesis, objective
- ✓ Literature
- ✓ Structure of the work

4. Methodology

- ✓ Describe data used
- ✓ Describe methodology, formal framework (equations, models, etc.)

Structure of a Seminar Paper

5. Results

- ✓ Goal: to present and illustrate your findings
- ✓ Summarize your findings in text and illustrate them (figure, tables)
- ✓ Describe each of your results
- ✓ Analyse your data
- ✓ Support every statement you make with evidence!

6. Conclusion

- ✓ Briefly summarize your findings
- ✓ Recommendations, lesson learned

Structure of a Research Paper

7. References

- ✓ List all literature cited in your paper

Examples:

Reference to a journal publication:

[1] Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2010. The art of writing a scientific article. J. Sci. Commun. 163, 51–59.

Reference to a book:

[2] Strunk Jr., W., White, E.B., 2000. The Elements of Style, fourth ed. Longman, New York.

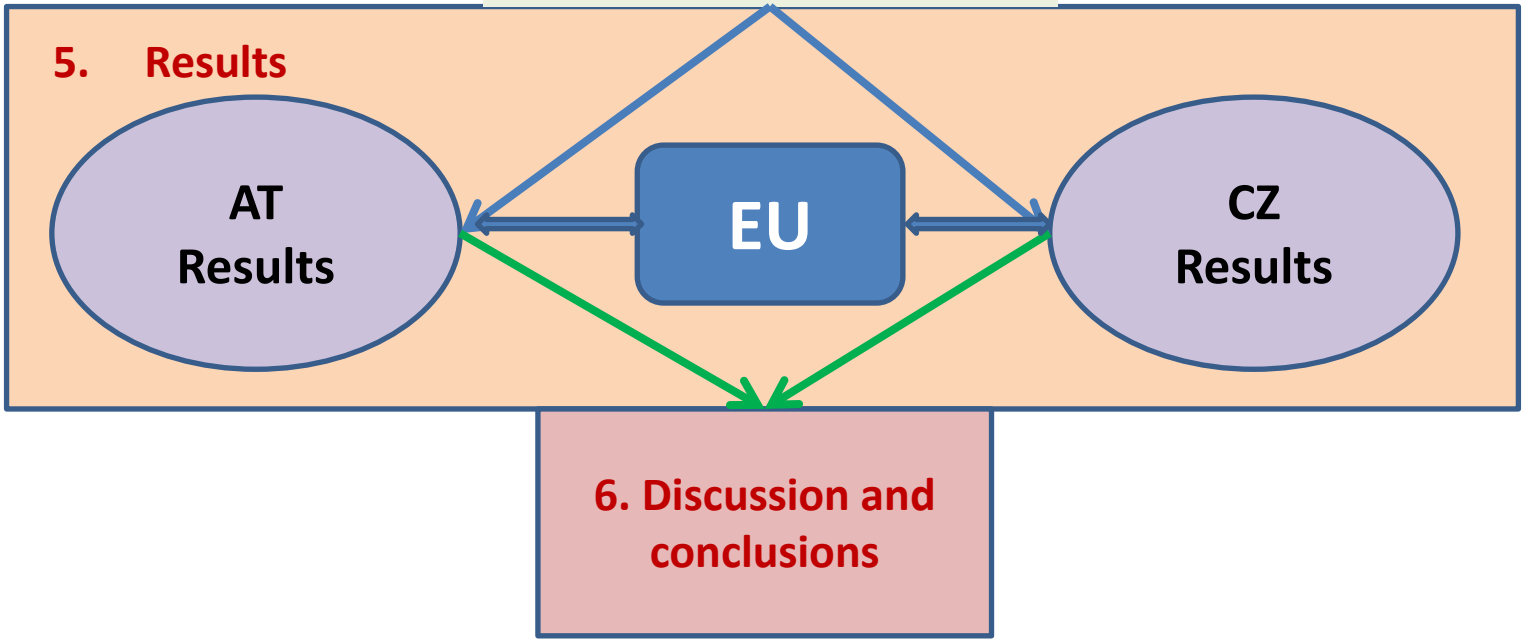
Reference to a chapter in an edited book:

[3] Mettam, G.R., Adams, L.B., 2009. How to prepare an electronic version of your article, in: Jones, B.S., Smith , R.Z. (Eds.), Introduction to the Electronic Age. E-Publishing Inc., New York, pp. 281–304.

Your Paper

01.05.2025

1. Title
2. Abstract
3. Introduction
4. Methodology



Seminar Work

MOST IMPORTANT:
ALL TOPICS OF SEMINAR WORK FOCUS ON COMPARISONS BETWEEN CZECH REPUBLIC, AUSTRIA, AND THE EU IN GENERAL!

TOPICS FOR SEMINAR WORK (RH)

1. THE RELEVANCE AND COSTS OF SHORT VS LONG-TERM STORAGE
2. WHOLESALE ELECTRICITY MARKETS: DIFFERENCES IN PRICE, DEVELOPMENTS, STRUCTURE…
3. PROMOTING RENEWABLE ELECTRICITY: TARGETS; STRATEGIES, BY TECHNOLOGY
4. ENERGY COMMUNITIES: COMPARING THE IMPLEMENTATION OF EU DIRECTIVES AND INITIATIVES
5. NATIONAL ENERGY AND CLIMATE PLANS (NECP) IN ELECTRICITY SYSTEMS

TOPICS FOR SEMINAR WORK (AA)

6. BIOFUELS: Current policies, future goals, feedstocks, costs

7. E-MOBILITY in road transport – Different transport modes: stock, strategies, policies

8. ELECTRIC VS GASOLINE VEHICLES: Total Costs of Mobility

9. TRANSPORT POLICIES: NATIONAL AND EU POLICIES

10. COMMERCIAL VEHICLES – types, electrification, policies…

TOPICS FOR SEMINAR WORK (JK)

11. INTENTIONALLY GROWN BIOMASS FOR ENERGY PURPOSES AND SOLID BIOFUELS

12. INTERNATIONAL ELECTRICITY EXCHANGE IN EUROPE: PROBLEMS AND CHALLENGES

13. BIOMETHAN - CURRENT STATE AND PERSPECTIVES (CZECH REP., AUSTRIA AND EU)

14. ENERGY SAVING

15. BIOMASS POTENTIALS AND BIOMASS COMPETITIVENESS

Summer School in Vienna

12- 16 May 2025

INTERDISCIPLINARY BILATERAL WINTER AND SUMMER SCHOOL

ON ECONOMIC, ENVIRONMENTAL AND TECHNICAL ASPECTS OF ENERGY SYSTEMS