

# Subject Areas for the Final State Exam in Energy Security Studies

## 1. THEORIES AND CONCEPTS

### 1) Energy Security Conceptualization

- Traditional approaches towards energy security: coexisting dimensions (Sovacool) and multi-level conceptualizations (Cornell).
- Critique and reformulation of the concept: conceptual stretching (Cuita) and context-dependent nature (Chester).
- Application of selected conceptualization to a particular situation or a selected state's energy policy.

#### Literature

- Sovacool, B. K. (2011): Conceptualizing and measuring energy security: A synthesized approach. *Energy* 36 (8).
- Cornell, P. E. (2009): Energy Security as National Security: Defining Problems Ahead of Solutions. *Journal of Energy Security*. Available at [http://www.ensec.org/index.php?option=com\\_content&view=article&id=183:energy-security-as-national-security-defining-problems-ahead-of-solutions1&catid=92:issuecontent&Itemid=341](http://www.ensec.org/index.php?option=com_content&view=article&id=183:energy-security-as-national-security-defining-problems-ahead-of-solutions1&catid=92:issuecontent&Itemid=341).
- Chester, L. (2010): Conceptualising energy security and making explicit its polysemic nature. *Energy policy* 38, pp. 887-895. (9 pages)
- Cuita, F. (2010): Conceptual notes on energy security: total or banal security? *Security dialogue* 41, pp. 123-144. (22 pages)

### 2) Traditionalist approaches to security in IR

- Realism in IR: basic principles, actors and structure, main concepts (balance of power, security dilemma).
- Realism in International Political Economy: economic nationalism, theory of hegemonic stability.
- Liberalism in IR: basic principles, actors and structure, main concepts (markets, regimes, interdependence).
- Liberalism in International Political Economy.
- Traditional approach to security in IR (Walt).
- Strategic vs. market approaches towards energy security.
- Application of a selected concept to a particular policy or context.

#### Literature

- Frieden, J. A., Lake, D. A. (2000): *International Political Economy: Perspectives on Global Power and Wealth*. London: Routledge (1-16).
- Gilpin, R. (1986): *The Political Economy of International Relations*. Princeton University Press, (25-64).
- Keohane, R., Nye, J. (2001): *Power and interdependence* (3. edition). New York: Longman, pp. 3-32. (30 pages)
- Klare, M. T. Petroleum anxiety and the militarization of energy security. In: Moran, D. & Russell, J. A. (2009, Eds.): *Energy Security and Global Politics: The Militarization of Resource Management*. London and New York: Routledge, pp. 39-61. (12 pages)

- Nordhaus, W. (2009): The Economics of an Integrated World Oil Market. Keynote Address at International Energy Workshop, pp. 1-24. (23 pages)
- Walt, S. (1991): The Renaissance of Security Studies. *International Studies Quarterly*, Vol. 35, No. 2, pp. 211-239. (29 pages)
- Waltz, K. (1979): *Theory of international politics*. Boston: McGraw-Hill, pp. 116-123. (8 pages)

### 3) Revisionist approaches to security in IR

- Social constructivism in IR: principles, actors and structure, main concepts (social construction, intersubjectivity, discourse).
- Copenhagen School: assumptions, conceptual framework (securitization, sector approach to security, regional security complex).
- Critical Theory (Aberystwyth School): assumptions, actors and structure, main concepts (triangle of violence, emancipation).
- Revisionist approaches to security in IR (Krause).
- Application of a selected concept to a particular policy or context.

### Literature

- Baylis, J. International and global security in the post-cold war era. In: Baylis, J. & Smith, S. (Eds., 2001): *The Globalization of World Politics*. Oxford University Press, pp. 265-276. (12 pages)
- Booth, K. (1991): Security and Emancipation. *Review of International Studies*, Vol. 17, No. 4, pp. 313-326. (14 pages)
- Buzan, B., Waeber, O., and Wilde, J. (1997): *Security: New Framework for Analysis*. Lynne Rienner Publishers, pp. 1-55, 163-193. (86 pages)
- Cox, R. W. (1981): Social Forces, States and World Orders: Beyond International Relations Theory. *Millennium: Journal of International Studies*, Vol. 10, No. 2.
- Krause, K. & Williams, M. (1996): Broadening the Agenda of Security Studies: Politics and Methods. *Mershon International Studies Review*, Vol. 40, No. 2, pp. 229-254. (26 pages)
- Searle, J. (1995): *The Construction of Social Reality*. London: Penguin Group, pp. 1-29. (29 pages)
- Wendt, A. (1999): *Social Theory of international Politics*. Cambridge: Cambridge University Press, pp. 246-259. (24 pages)

## 2. ENERGY POLICY IN CENTRAL EUROPE

*(Note: The students are required to follow the current development and changes in companies' ownership structures in the respective subject areas.)*

### 1) Coal industry

- Essential country-specific characteristics of the Czech energy sector.
- Importance of the coal sector, key actors, utilization, trading, trends.
- Current issues in the coal sector.
- Trends in coal exploitation according to the Energy & Resource Policy of the Czech Republic.

#### Literature

- Vlček, T., Jirušek, M. (2015): Key factors that drive the Czech Republic's coal industry. *Coal International* 263 (3), pp. 28-36. (9 pages)
- Sivek, M., Kavina, P., Jirásek, J., Malečková, V. (2012): Factors Influencing the Selection of the Past and Future Strategies for Electricity Generation in the Czech Republic. *Energy Policy* 48, pp. 650-656. (7 pages)
- Gutmann, K., Huscher, J., Urbaniak, D., & White, A. (2014). Europe's dirty 30 - How the EU's coal-fired power plants are undermining its climate efforts, pp. 1-17. Available at [http://awsassets.panda.org/downloads/dirty\\_30\\_report\\_finale.pdf](http://awsassets.panda.org/downloads/dirty_30_report_finale.pdf) (17 pages)
- Vlček, T., Černocho, F. (2013): The energy sector and energy policy of the Czech Republic. Brno: Masarykova univerzita, pp. 25-88. (64 pages)

### 2) Crude Oil

- Importance and utilization of crude oil in CE.
- Czech market structure, key actors, contracts.
- Diversification projects and market trends in CE.

#### Literature

- ILF Consulting Engineers, & Purvin & Gertz. (2010). Study on the Technical Aspects of Variable Use of Oil Pipelines - Coming into the EU from Third Countries. Overall Report, pp. 1-42. Available at [https://ec.europa.eu/energy/sites/ener/files/documents/2010\\_reporting\\_technical\\_aspects.pdf](https://ec.europa.eu/energy/sites/ener/files/documents/2010_reporting_technical_aspects.pdf) (42 pages)
- Vlček, T. (2015). Alternative Oil Supply Infrastructures for the Czech Republic and Slovak Republic. 1th edition. Brno: Masarykova univerzita, 2015, pp. 61-93, 113-173. (94 pages)

### 3) Natural Gas

- Importance and use of natural gas in CE
- Czech market structure, key actors, contracts
- Diversification projects in CE and market trends

#### Literature

- Černocho, F., Dančák, B., Kovačovská, J., Ocelík, P., Osička, J., Vlček, T., Zapletalová, V. (2011). The Future of Natural Gas Security in the V4 Countries. A Scenario Analysis and the EU Dimension. Brno: Masaryk University, pp. 52-116, 269-286. (83 pages)
- Vlček, T., Černocho, F. (2013): The energy sector and energy policy of the Czech Republic. Brno: Masarykova univerzita, pp. 109-130. (22 pages)

### 4) Renewable energy sources

- The global context: market drivers, technological advances and decreasing costs
- Development of RES in the Czech Republic and Germany: motivations, policies, results.

#### Literature

- Hake, J., et al. (2015): The German Energiewende – History and status quo. Energy 92 (3), pp. 532–546. (14 pages)
- Vlček, T., Černocho, F. (2013): The energy sector and energy policy of the Czech Republic. Brno: Masarykova univerzita, pp. 153-188. (36 pages)

### 5) Nuclear Energy

- The state of the industry in the region: current issues and prospects.
- Operations at Rosatom State Nuclear Corporation in CEE and associated behavioural models.
- Nuclear fuel specifics and issues in the CEE market.
- Nuclear Energy in the Czech Republic.

#### Literature

- Jirušek, M., & Vlček, T. et al. (2015). Energy Security in Central and Eastern Europe and the Operations of Russian State-Owned Energy Enterprises. Brno: Masarykova univerzita, 2015, pp. 106-130, 141-156, 206-218, 243-255, 338-362. Available at <https://munispace.muni.cz/index.php/munispace/catalog/download/790/2525/432-1> (92 pages)
- Vlček, T., Černocho, F. (2013): The energy sector and energy policy of the Czech Republic. Brno: Masarykova univerzita, pp. 131-152. (22 pages)

### **3. EUROPEAN ENERGY POLICY**

#### **1) Internal energy market I**

- Theoretical approach – traditional vs liberalization paradigm.
- The energy industry as a network industry.
- Economics and regulatory principles of market liberalization.

#### Literature

- Cameron, P. D. (2007): *Competition in Energy Markets: Law and Regulation in the European Union*. Oxford: Oxford University Press, pp. 3-36. (34 pages)

#### **2) Internal energy market II**

- Development of the internal energy market: liberalization packages and related legislation.
- Clashes between the actors: European Commission, Member States, energy companies.
- New institutions (regulators, transmission system operators) and supranational cooperation between them.

#### Literature

- Johnson, A., Block, G. (2012): *EU Energy Law*. Oxford: Oxford University Press, pp. 35-150. (116 pages)

#### **3) The environmental dimension of European energy policy I**

- The role of the EU in establishing the Kyoto protocol.
- The role of the EU in international climate talks: positions, tools, results.
- The European Emissions Trading System (EU ETS).

#### Literature

- Skjaereth, J. B., Wettestad, J. (2008): *EU Emission Trading: Initiation, Decision-making and Implementation*. Surrey: Ashgate Publishing, pp. 35-64, 103-180. (106 pages)

#### **4) The environmental dimension of European energy policy II**

- Renewable energy sources and their role in European energy policy.
- Energy efficiency.

#### Literature

- Buchan, D. (2009): *Energy and Climate Change: Europe at the Cross Roads*. Oxford: Oxford Institute for Energy Studies, pp. 137-164, 191-204. (40 pages)

#### **5) EU external energy policy**

- Conceptualization of the EU's external energy policy.
- Relations between the EU and the main energy suppliers, consumers and transit countries.

#### Literature

- Youngs, R. (2011). *Foreign Policy and Energy security: Markets, Pipelines, and Politics*. In Birchfield, V. L. & Duffield, J. S., *Toward a Common European Union Energy Policy: Problems, Progress, and Prospects*. Basingstoke: Palgrave Macmillan, pp. 41-60. (20 pages)

- Talus, K. (2013). *EU Energy Law and Policy: a Critical Account*. Oxford: Oxford University Press, pp. 232-268. (37 pages)
- Grätz, J. (2011). *Common Rules without Strategy: EU Energy Policy and Russia*. In Birchfield, V. L. & Duffield, J. S., *Toward a Common European Union Energy Policy: Problems, Progress, and Prospects*. Basingstoke: Palgrave Macmillan, pp. 61-87. (27 pages)