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Ministerstvo financí České republiky

TOPIC: Energy use in the Czech Republic NAME: Rostislav Vrzák

PROJECT: Comparison of energy potencial of Iceland and the Czech Republic DATE: 1/ 8/2021 – 31/ 8/ 2022

Energy production

• In 2018, 88 TWh were produced in the Czech Republic

- Imported 11.6 TWh
- That gives us an electricity balance of 99.6 TWh

Consumption

- Gross energy consumption was 74.1 TWh
- 25.5 TWh went to export
- Net energy consumption was 61
 TWh
- And losses 12.9 TWh

Import/Export

- The resulting net export is the difference between exports (25.5TWh) and imports (11.6TWh), which is 13.9 TWh
- The countries from which we import the most are Germany and Poland
- The countries to which we import the most are Austria and Slovakia

Losses

- Transmission losses are losses incurred in the transport of electricity through the transmission system
- Transmission losses are divided into technical losses and non-technical (commercial) losses
- Losses are the difference between the energy supplied to the grid and the energy consumed

Technical losses

Technical losses are divided into:

- losses by leakage currents
- dielectric losses for cables
- Joule losses on lines and not transformers
- consumption of measuring, control and connecting elements

Depending on the place of origin, technical losses are divided into:

- losses due to transformation
- losses in conductors
- potential losses (through compensation, imperfect insulation, etc.)

Non-technical losses

- Non-technical (business) losses are e.g.:
- unmeasured lump-sum withdrawals
- measurement errors
- faulty wiring of measuring instruments
- withdrawals below the sensitivity limit of electricity meters
- accounting or record-keeping errors
- unauthorised withdrawals

Consumption in industry



- industry consumed a total of 18.7 TWh
- chemical industry 3TWh
- production from non-metallic minerals 3.2 TWh
- Engineering 2 TWh
- Paper production, printing 1.7 TWh
- Metallurgy 2.8 TWh
- other sectors 6TWh

Use of electrical energy



Energy sector- 4.6 TWh



Transportation 0.6 TWh



Construction sector 0.5 TWh



Agriculture and forestry 0.9 TWh

Other applications

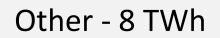


Households 15 TWh

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Trade, services, education, health 12.5 TWh





Thank you for your attention