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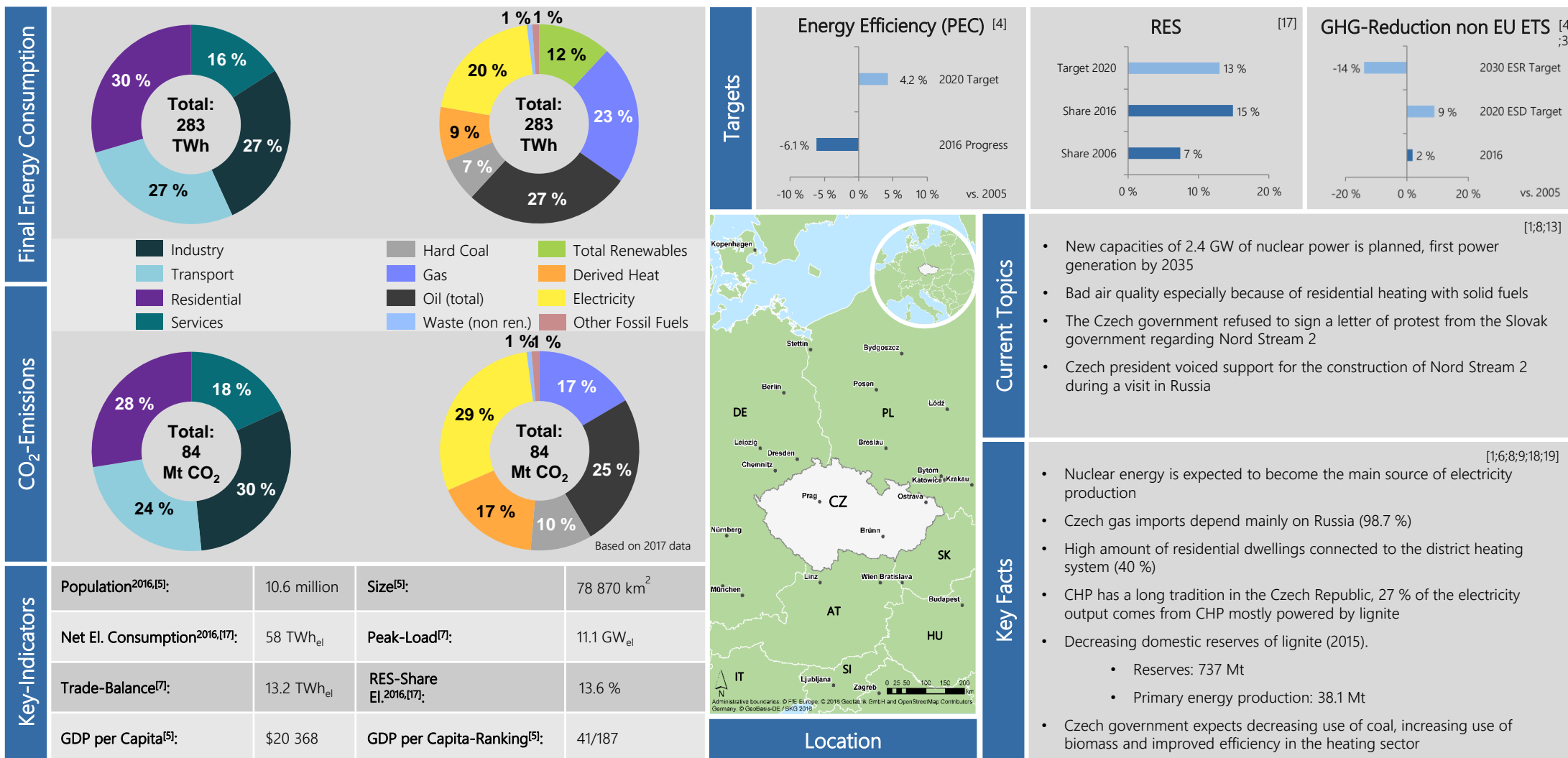


# Energy Country Profile Czech Republic

2020

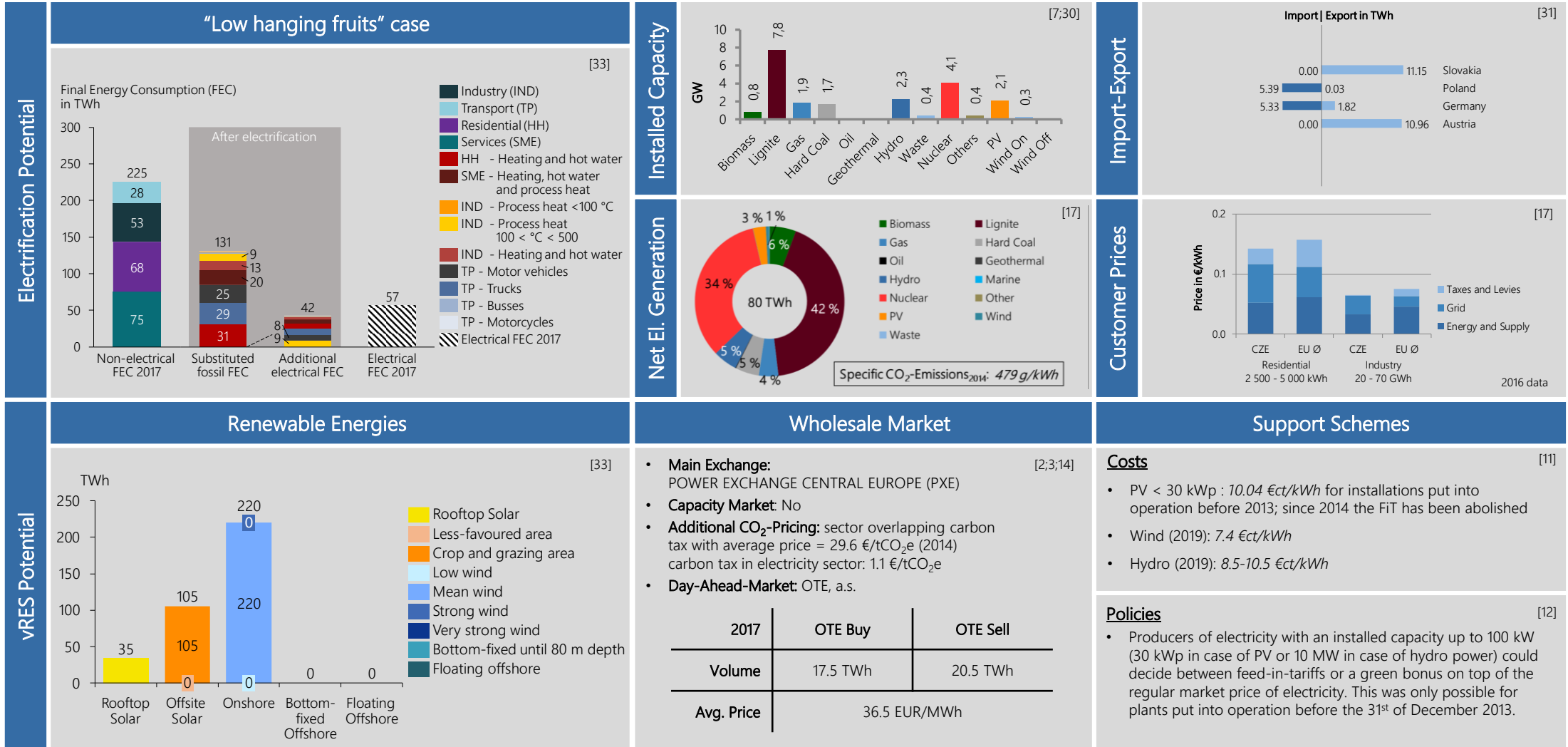


# Czech Republic at a Glance



All evaluations based on the year 2017 if not mentioned otherwise.

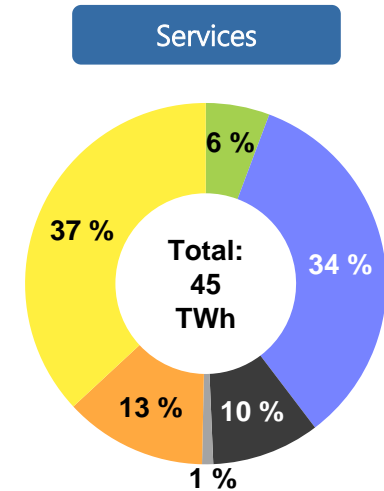
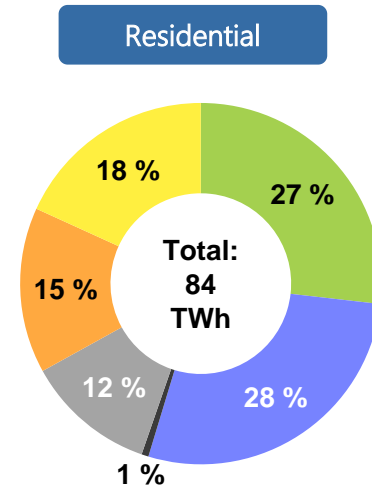
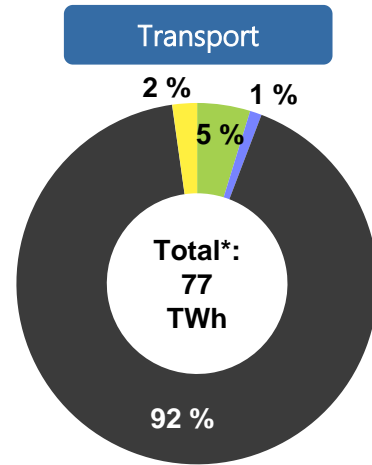
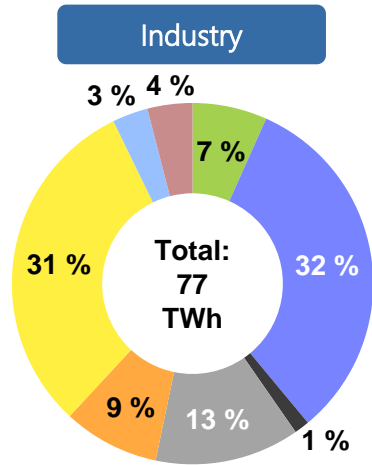
# Czech Republic's Electricity Sector



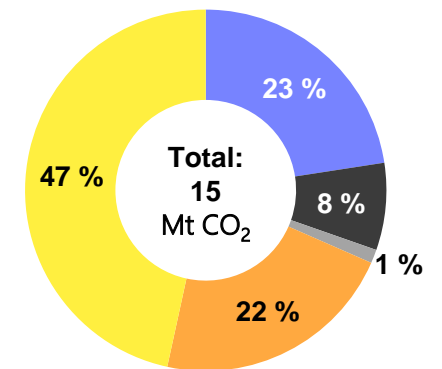
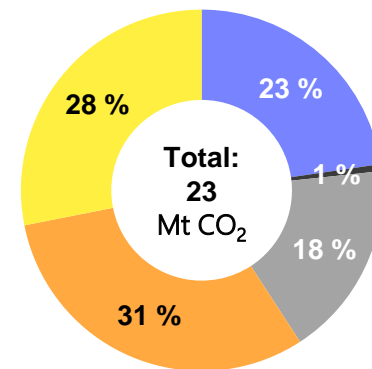
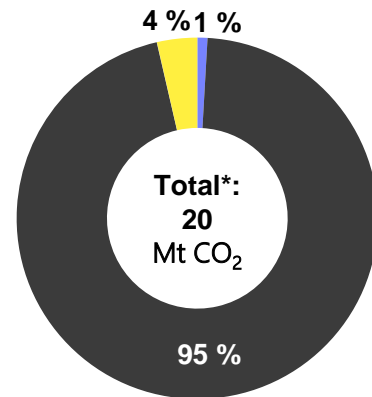
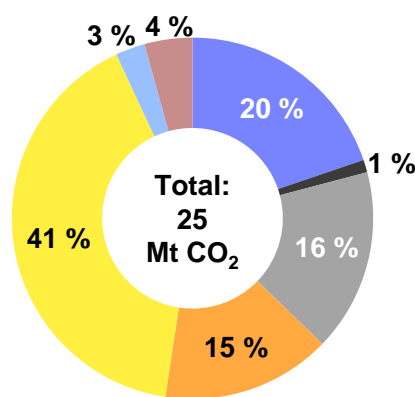
All evaluations based on the year 2017 if not mentioned otherwise.

# Czech Republic's Energy Consumption & Emissions by Sectors and Energy Carriers - 2017

Final Energy Consumption



CO<sub>2</sub> - Emissions

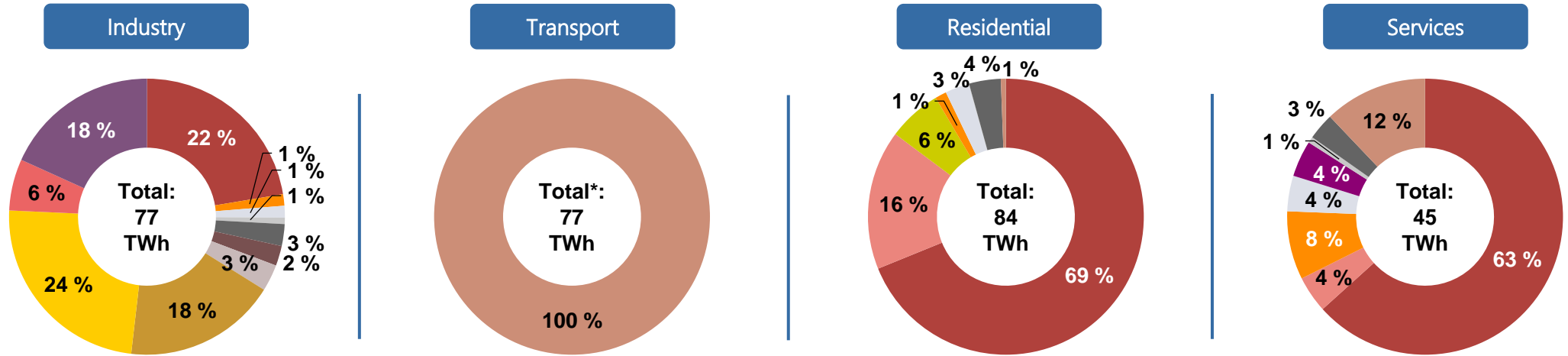


Hard Coal
  Oil (total)
  Gas
  Total Renewables
  Waste (non. ren.)
  Derived Heat
  Electricity
  Other Fossil Fuels

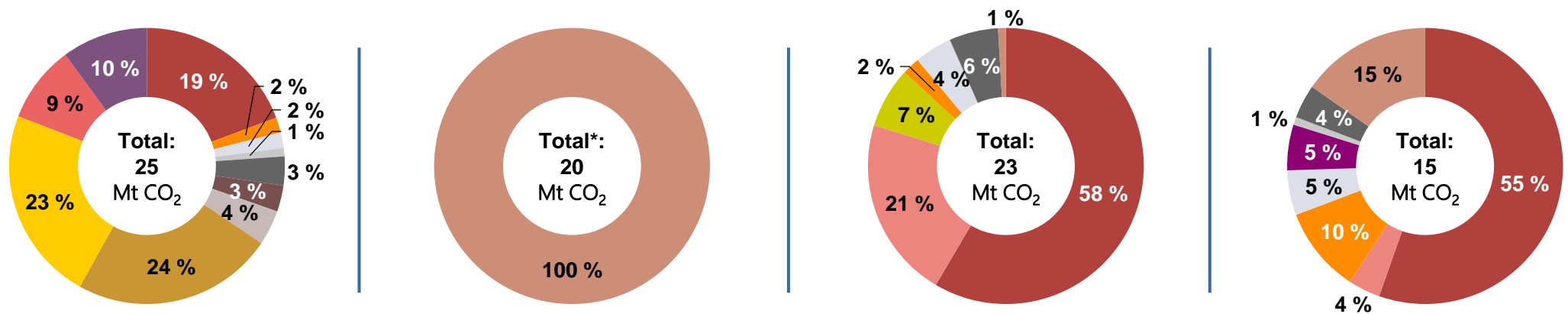
\*excluding international aviation

# Czech Republic's Energy Consumption & Emissions by Application & Sector - 2017

Final Energy Consumption



CO<sub>2</sub> - Emissions



- Space Heating
- Process Heat 100 - 500 °C
- Process Heating < 100 °C
- Other Process Cold
- ICT
- Process Heating
- Cooking
- Pumps
- Warm Water
- Process Heat > 500 °C
- Other Mechanical Energy
- Mechanical Energy
- Lighting
- Compressed Air
- Climate Cold

\*excluding international aviation

# Czech Republic: Sources



Institutions		
Ministry of Industry and Trade		<a href="https://www.mpo.cz/en/">https://www.mpo.cz/en/</a>
Electricity and Gas Market Operator	OTE, a.s.	<a href="http://www.ote-cr.cz/">http://www.ote-cr.cz/</a>
TSO	ČEPS	<a href="http://www.ceps.cz/en/homepage">http://www.ceps.cz/en/homepage</a>
Regulator	Energy Regulatory Office, ERO	<a href="http://www.ero.cz/cs/">http://www.ero.cz/cs/</a>
Main Power Market	Power Exchange Central Europe (PXE)	<a href="https://www.pxe.cz/?language=english">https://www.pxe.cz/?language=english</a>

Sources	Main Studies
<p>[1] IEA (International Energy Agency) 2017, Energy Policies of IEA countries, Czech Republic 2016 Review, <a href="https://www.iea.org/countries/membercountries/czechrepublic/">https://www.iea.org/countries/membercountries/czechrepublic/</a></p> <p>[2] ERO, <a href="http://www.ero.cz/documents/10540/488714/NR_ERU_2016/3e05aa8c-0a79-4c3c-9389-6d0c3c313e1e">http://www.ero.cz/documents/10540/488714/NR_ERU_2016/3e05aa8c-0a79-4c3c-9389-6d0c3c313e1e</a></p> <p>[3] PXE, <a href="https://www.pxe.cz/pxe_downloads/Statistics/Year/fact-book-2016.pdf">https://www.pxe.cz/pxe_downloads/Statistics/Year/fact-book-2016.pdf</a></p> <p>[4] European Environment Agency <a href="https://www.eea.europa.eu/publications/trends-and-projections-in-europe-2018-climate-and-energy">https://www.eea.europa.eu/publications/trends-and-projections-in-europe-2018-climate-and-energy</a></p> <p>[5] World Development Indicators, The World Bank, <a href="https://data.worldbank.org/">https://data.worldbank.org/</a></p> <p>[6] Euroheat, <a href="https://www.euroheat.org/knowledge-centre/district-energy-czech-republic/">https://www.euroheat.org/knowledge-centre/district-energy-czech-republic/</a></p> <p>[7] International Renewable Energy Agency, <a href="https://www.irena.org/statistics">https://www.irena.org/statistics</a></p> <p>[8] World Nuclear News, <a href="http://www.world-nuclear-news.org/NN-Czech-new-build-financing-decision-by-mid-year-2703187.html">http://www.world-nuclear-news.org/NN-Czech-new-build-financing-decision-by-mid-year-2703187.html</a></p> <p>[9] Mordor Intelligence, <a href="https://www.mordorintelligence.com/industry-reports/czech-republic-renewable-energy-market">https://www.mordorintelligence.com/industry-reports/czech-republic-renewable-energy-market</a></p> <p>[11] Res Legal, <a href="http://www.res-legal.eu/search-by-country/czech-republic/single/s/res-e/t/promotion/aid/feed-in-tariff-act-on-the-promotion-of-the-use-of-res/lastp/119/">http://www.res-legal.eu/search-by-country/czech-republic/single/s/res-e/t/promotion/aid/feed-in-tariff-act-on-the-promotion-of-the-use-of-res/lastp/119/</a></p> <p>[12] Res Legal, <a href="http://www.res-legal.eu/no_cache/archive">http://www.res-legal.eu/no_cache/archive</a></p> <p>[13] Deutsche Wirtschafts Nachrichten, <a href="https://deutsche-wirtschafts-nachrichten.de/2017/09/09/tschechien-will-drehscheibe-fuer-erdgas-aus-russland-werden/">https://deutsche-wirtschafts-nachrichten.de/2017/09/09/tschechien-will-drehscheibe-fuer-erdgas-aus-russland-werden/</a></p> <p>[14] OTE Annual Market Report 2017, <a href="http://www.ote-cr.cz/statistics/yearly-market-report/page_report_62_162">http://www.ote-cr.cz/statistics/yearly-market-report/page_report_62_162</a></p> <p>[17] Eurostat, <a href="http://ec.europa.eu/eurostat/statistics-explained/images/b/b7/Table_2-Share_of_energy_from_renewable_sources_in_gross_final_consumption_of_energy_2004-2016.png">http://ec.europa.eu/eurostat/statistics-explained/images/b/b7/Table_2-Share_of_energy_from_renewable_sources_in_gross_final_consumption_of_energy_2004-2016.png</a></p> <p>[18] Czech Ministry of Trade and Industry, <a href="https://www.mpo.cz/assets/dokumenty/52841/60946/636123/priloha001.pdf">https://www.mpo.cz/assets/dokumenty/52841/60946/636123/priloha001.pdf</a></p> <p>[19] Eurocoal, <a href="https://eurocoal.eu/info/country-profiles/czech-republic/">https://eurocoal.eu/info/country-profiles/czech-republic/</a></p> <p>[20] National Flag, <a href="http://www.nationalflaggen.de/flaggen-europa.html">http://www.nationalflaggen.de/flaggen-europa.html</a></p> <p>[21] OECD Environmental Tax Profile, <a href="https://www.oecd.org/tax/tax-policy/environmental-tax-profile-czech-republic.pdf">https://www.oecd.org/tax/tax-policy/environmental-tax-profile-czech-republic.pdf</a></p> <p>[22] European Commission - Eurostat, 2017, Energy statistics - supply, transformation and consumption: Complete energy balances - annual data - nrg_110a: <a href="http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=nrg_110a&amp;lang=en">http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=nrg_110a&amp;lang=en</a></p> <p>[23] European Commission - Eurostat, 2017, Energy consumption in households: <a href="http://ec.europa.eu/eurostat/statistics-explained/index.php/Energy_consumption_in_households">http://ec.europa.eu/eurostat/statistics-explained/index.php/Energy_consumption_in_households</a></p> <p>[24] AG Energiebilanzen e.V., 2018, Energiebilanz der Bundesrepublik Deutschland 2016</p> <p>[25] TEP Energy GmbH (TEP), University Utrecht ARMINES, 2017, Deliverable 3.1: Profile of heating and cooling demand in 2015: <a href="http://www.heatroadmap.eu/output.php">http://www.heatroadmap.eu/output.php</a> Karlsruhe: Fraunhofer Institute for Systems and Innovation Research (ISI)</p> <p>[26] Fraunhofer Institute for Systems and Innovation Research (ISI), Fraunhofer Institute for Solar Energy Systems (ISE), Institute for Resource Efficiency and Energy Strategies GmbH (IREES), Observ'ERTU Wien - Energy Economics Group (EEG), TEP Energy GmbH (TEP), European Commission (EC), 2016, Mapping and analyses of the current and future (2020 - 2030) heating/cooling fuel deployment (fossil/renewables) - Work package 1: Final energy consumption for the year 2012</p> <p>[27] Institute for Global Environmental Strategies, 2006. IPCC Guidelines for National Greenhouse Gas Inventories - Energy - Stationary Combustion</p> <p>[28] Fleiter, Tobias et al.: Mapping and analyses of the current and future (2020 - 2030) heating/cooling fuel deployment (fossil/renewables) - Work package 2: Data Annex 2 Industrial processes for publication</p> <p>[29] OSW, 2017, <a href="https://www.osw.waw.pl/en/publikacje/analyses/2017-11-29/czech-support-nord-stream-2">https://www.osw.waw.pl/en/publikacje/analyses/2017-11-29/czech-support-nord-stream-2</a></p> <p>[30] S&amp;P Global, <a href="https://www.spglobal.com/platts/en/products-services/electric-power/world-electric-power-plants-database">https://www.spglobal.com/platts/en/products-services/electric-power/world-electric-power-plants-database</a></p> <p>[31] ENTSO-E Transparency Platform, <a href="https://transparency.entsoe.eu/">https://transparency.entsoe.eu/</a></p> <p>[32] European Union, <a href="https://eur-lex.europa.eu/legal-content/DE/TXT/PDF/?uri=CELEX:32018R0842">https://eur-lex.europa.eu/legal-content/DE/TXT/PDF/?uri=CELEX:32018R0842</a></p> <p>[33] Own Calculation, <a href="http://www.ffe.de/xos/laendersteckbriefe/methodik">www.ffe.de/xos/laendersteckbriefe/methodik</a></p>	<ul style="list-style-type: none"> <li>• <b>Czech Republic 2016 Review</b>, (International Energy Agency), <a href="https://www.iea.org/countries/membercountries/czechrepublic/">https://www.iea.org/countries/membercountries/czechrepublic/</a></li> <li>• <b>National Report on Electricity and Gas Industries 2016</b> (Energy Regulatory Office), <a href="http://www.ero.cz/documents/10540/488714/NR_ERU_2016/3e05aa8c-0a79-4c3c-9389-6d0c3c313e1e">http://www.ero.cz/documents/10540/488714/NR_ERU_2016/3e05aa8c-0a79-4c3c-9389-6d0c3c313e1e</a></li> </ul>

Abbreviations	
RES	Renewable Energy Source
EFR	Effort Sharing Regulation
PEC	Primary Energy Consumption
GHG	Greenhouse Gases
ESD	Effort Sharing Decision
EU ETS	European Union Emissions Trading System
EL	Electricity
EU	European Union
TSO	Transmission System Operator