

## References

- [1] *IEA Tracking Power 2020* IEA (2020), Tracking Power 2020, IEA, Paris https://www.iea.org/reports/tracking-power-2020
- [2] PBL Netherlands Environmental Assessment Agency Trends in Global CO2 and Total Greenhouse Gas Emissions; 2020 Report <a href="https://www.pbl.nl/en/publications/trends-in-global-co2-and-total-greenhouse-gas-emissions-2020-report">https://www.pbl.nl/en/publications/trends-in-global-co2-and-total-greenhouse-gas-emissions-2020-report</a>
- [3] IAEA Climate Change and Nuclear Power 2020', IAEA, Vienna <a href="https://www-pub.iaea.org/MTCD/Publications/PDF/PUB1911">https://www-pub.iaea.org/MTCD/Publications/PDF/PUB1911</a> web.pdf
- [4] *IEA Global Energy Review: CO<sub>2</sub> Emissions in 2020'* (2021), IEA, Paris <a href="https://www.iea.org/articles/global-energy-review-co2-emissions-in-2020">https://www.iea.org/articles/global-energy-review-co2-emissions-in-2020</a>
- [5] IPCC Special Report on the Impacts of Global Warming of 1.5°C (IPCC SR 15), IPCC (SR-15), Geneva <a href="https://www.ipcc.ch/sr15/download/#full">https://www.ipcc.ch/sr15/download/#full</a>
- [6] IEA Net Zero by 2050 A Roadmap for the Global Energy Sector Flagship Report (May 2021), IEA, Paris <a href="https://www.iea.org/reports/net-zero-by-2050">https://www.iea.org/reports/net-zero-by-2050</a>
- [7] EMISSIONS DATABASE FOR GLOBAL ATMOSPHERIC RESEARCH (EDGAR), Global Emissions EDGAR v5.0 (1970–2015), European Commission, Joint Research Centre (JRC)/Netherlands Environmental Assessment Agency, Brussels (2019) https://edgar.jrc.ec.europa.eu/climate\_change
- [8] J.G.J. Olivier and J.A.H.W. Peters (May 2020, Revised 16 May 2020), *Trends in Global CO<sub>2</sub> and Total Greenhouse Gas Emissions, 2019 Report*, PBL Netherlands Environmental Assessment Agency, The Hague <a href="https://www.pbl.nl/sites/default/files/downloads/pbl-2020-trends-in-global-co2-and-total-greenhouse-gas-emissions-2019-report">https://www.pbl.nl/sites/default/files/downloads/pbl-2020-trends-in-global-co2-and-total-greenhouse-gas-emissions-2019-report</a> 4068.pdf
- [9] Worldometers. World Population by Year (2021). https://www.worldometers.info/world-population/world-population-by-year/
- [10] World Bank GDP Constant US \$ 2010 Data Series (2021). https://data.worldbank.org/indicator/NY.GDP.MKTP.KD
- [11] Vaclav Smil (2017). Energy Transitions: Global and National Perspectives.

  <a href="http://vaclavsmil.com/2016/12/14/energy-transitions-global-and-national-perspectives-second-expanded-and-updated-edition/">http://vaclavsmil.com/2016/12/14/energy-transitions-global-and-national-perspectives-second-expanded-and-updated-edition/</a>
- [12] BP Statistical Review of World Energy (2019, 2020 and 2021) 68<sup>th</sup> 70<sup>th</sup> Editions. https://www.bp.com/content/dam/bp/business-sites/en/global/corporate/pdfs/energy-economics/statistical-review/bp-stats-review-2021-electricity.pdf
- [13] Enerdata. Global Energy Statistical Yearbook 2021. <a href="https://yearbook.enerdata.net/total-energy/world-consumption-statistics.html">https://yearbook.enerdata.net/total-energy/world-consumption-statistics.html</a>
- [14] IEA/NEA The Costs of Decarbonization System Costs with High Shares of Nuclear and Renewables (2019), IEA/NEA, Paris <a href="https://www.oecd-nea.org/jcms/pl">https://www.oecd-nea.org/jcms/pl</a> 15000/the-costs-of-decarbonisation-system-costs-with-high-shares-of-nuclear-and-renewables
- [15] *IAEA Nuclear Power Reactors in the World Reference Data Series Nr. 2, 2021 Edition*, IAEA (2021), Vienna <a href="https://www-pub.iaea.org/MTCD/publications/PDF/RDS-2-41">https://www-pub.iaea.org/MTCD/publications/PDF/RDS-2-41</a> web.pdf
- [16] IAEA -Power Reactor Information System ("PRIS"), IAEA (2021), Vienna https://pris.iaea.org/pris/
- [17] World Nuclear News IEA assessment of nuclear 'impractical', says World Nuclear Association (18 May 2021), WNN, London <a href="https://world-nuclear-news.org/Articles/IEA-assessment-of-nuclear-highly-impractical-,-say">https://world-nuclear-news.org/Articles/IEA-assessment-of-nuclear-highly-impractical-,-say</a>
- [18] European Commission 'JRC Science for Policy Report Technical assessment of nuclear energy with respect to the 'do no significant harm' criteria of



Regulation (EU) 2020/852 ('Taxonomy Regulation')', Res. Ares(2021)1988129 – 19/03/2021, EC, Brussels

https://ec.europa.eu/info/sites/default/files/business economy euro/banking and finance/documents/210329-jrc-report-nuclear-energy-assessment\_en.pdf

- [19] IEA/NEA The Full Cost of Electricity Provision (2018), IEA (2018), Paris <a href="https://www.oecd-nea.org/upload/docs/application/pdf/2019-12/7298-full-costs-2018.pdf">https://www.oecd-nea.org/upload/docs/application/pdf/2019-12/7298-full-costs-2018.pdf</a>
- [20] Center for Advanced Nuclear Energy Systems (CANES), Massachusetts Institute of Technology (MIT), Advanced Nuclear Power Program MIT-Japan Study Future of Nuclear Power in a Low-Carbon World: The Need for Dispatchable Energy - MIT-ANP-TR-171 September 2017, MIT Cambridge, <a href="https://energy.mit.edu/wp-content/uploads/2017/12/MIT-Japan-Study-Future-of-Nuclear-Power-in-a-Low-Carbon-World-The-Need-for-Dispatchable-Energy.pdf">https://energy.mit.edu/wp-content/uploads/2017/12/MIT-Japan-Study-Future-of-Nuclear-Power-in-a-Low-Carbon-World-The-Need-for-Dispatchable-Energy.pdf</a>
- [21] IEA (2020), *Projected Costs of Generating Electricity 2020*, IEA, Paris <a href="https://www.iea.org/reports/projected-costs-of-generating-electricity-2020">https://www.iea.org/reports/projected-costs-of-generating-electricity-2020</a>
- [22] European Commission Subsidies and costs of EU energy Final Report (2014), Project number:

  DESNL14583, EcoFys

  <a href="https://ec.europa.eu/energy/sites/ener/files/documents/ECOFYS%202014%20Subsidies%20and%20costs%20of%20EU%20energy">https://ec.europa.eu/energy/sites/ener/files/documents/ECOFYS%202014%20Subsidies%20and%20costs%20of%20EU%20energy</a> 11 Nov.pdf
- [23] Schlömer S., T. Bruckner, L. Fulton, E. Hertwich, A. McKinnon, D. Perczyk, J. Roy, R. Schaeffer, R. Sims, P. Smith, and R. Wiser, 2014: *Annex III: Technology-specific cost and performance parameters. In: Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J.C. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA <a href="https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc\_wg3\_ar5\_annex-iii.pdf">https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc\_wg3\_ar5\_annex-iii.pdf</a>
- [24] Intergovernmental Panel on Climate Change, Carbon Dioxide Capture and Storage (SRCCS), IPCC, Cambridge, 2005. <a href="https://www.ipcc.ch/site/assets/uploads/2018/03/srccs">https://www.ipcc.ch/site/assets/uploads/2018/03/srccs</a> wholereport-1.pdf
- [25] M. Z. Jacobson, The health and climate impacts of carbon capture and direct air capture, Energy and environmental science, no. 12, pp. 3567-3574, 2019. https://pubs.rsc.org/en/content/articlelanding/2019/ee/c9ee02709b
- [26] CLIMATEWATCH, *Historical GHG Emissions*, [Online]. <a href="https://www.climatewatchdata.org/ghg-emissions?end">https://www.climatewatchdata.org/ghg-emissions?end</a> year=2018&start year=1990. [Accessed 1 September 2021].
- [27] H. Ritchie and M. Roser, *Our World in Data: Emissions by Sector, 2020*. [Online]. <a href="https://ourworldindata.org/co2-and-other-greenhouse-gas-emissions">https://ourworldindata.org/co2-and-other-greenhouse-gas-emissions</a>. [Accessed 1 September 2021].
- [28] International Energy Agency, *Database documentation: GREENHOUSE GAS EMISSIONS FROM ENERGY 2021 EDITION*, IEA, Paris, 2021. <a href="https://www.iea.org/data-and-statistics/data-product/greenhouse-gas-emissions-from-energy">https://www.iea.org/data-and-statistics/data-product/greenhouse-gas-emissions-from-energy</a>
- [29] International Energy Agency, CO2 emissions from fuel combustion: HIGHLIGHTS, IEA, Paris, 2019. https://iea.blob.core.windows.net/assets/eb3b2e8d-28e0-47fd-a8ba-160f7ed42bc3/CO2 Emissions from Fuel Combustion 2019 Highlights.pdf
- [30] International Atomic Energy Agency, Power Reactor Information System (PRIS), 1 August 2021. [Online]. https://pris.iaea.org/PRIS/WorldStatistics/OperationalReactorsByCountry.aspx [Accessed 2 August 2021].
- [31] United Nations Economic Commission for Europe, *TECHNOLOGY BRIEF: NUCLEAR POWER*, UNECE, Geneva, 2021 <a href="https://unece.org/sites/default/files/2021-08/Nuclear%20power%20brief">https://unece.org/sites/default/files/2021-08/Nuclear%20power%20brief</a> EN 0.pdf



- [32] U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.' U.S. EIA, Washington DC <a href="https://www.eia.gov/electricity/monthly/epm">https://www.eia.gov/electricity/monthly/epm</a> table grapher.php?t=epmt 6 07 b
- [33] World Nuclear Association, World Nuclear Performance Report 2021, WNA, London <a href="https://world-nuclear.org/our-association/publications/global-trends-reports/world-nuclear-performance-report.aspx">https://world-nuclear.org/our-association/publications/global-trends-reports/world-nuclear-performance-report.aspx</a>
- [34] H. Ritchie and M. Roser, *Our World in Data: Death Rates in Energy Production per TWh, 2020.* [Online]https://ourworldindata.org/grapher/death-rates-from-energy-production-per-twh
- [35] Markandya A., Wilkinson P. (2007), Energy and Health 2 Electricity Generation and Health, Lancet (2007), University of Bath, UK https://www.academia.edu/12681524/Electricity generation and health
- [36] Sovacool, Benjamin, et. al, Journal of Cleaner Production Balancing Safety with Sustainability:

  Assessing the Risk of Accidents for Modern Low-Carbon Energy Systems, Vol. 112, Nr.
  10.1016/j.jclepro.2015.07.059

  <a href="https://www.sciencedirect.com/science/article/abs/pii/S0959652615009877?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S0959652615009877?via%3Dihub</a>
- [37] World Health Organization, *Chernobyl: the true scale of the accident*, WHO (2005) [Online] <a href="https://www.who.int/news/item/05-09-2005-chernobyl-the-true-scale-of-the-accident">https://www.who.int/news/item/05-09-2005-chernobyl-the-true-scale-of-the-accident</a>
- [38] UN Scientific Committee on the Effects of Atomic Radiation (UNSCEAR), The Chernobyl Accident UNSCEAR's assessments of the radiation effects, UNSCEAR [Online] https://www.unscear.org/unscear/en/chernobyl.html
- [39] GEB IV International Forum, *Nuclear Energy An ESG Investable Asset Class*, September 2021 <a href="https://www.gen-4.org/gif/jcms/c">https://www.gen-4.org/gif/jcms/c</a> 179256/gif-final-esg-010921
- [40] IAEA Integrated Nuclear Infrastructure Review (INIR) program website: https://www.iaea.org/services/review-missions/integrated-nuclear-infrastructure-review-inir
- [41] Sheriffah Noor Khamseah Al-Idid bt Dato' Syed Ahmad Idid Malaysia, Nuclear Power Asia (2013), Financing Nuclear Power (2013), IAEA International Nuclear Information System (INIS) https://inis.iaea.org/collection/NCLCollectionStore/ Public/45/100/45100065.pdf
- [42] ICMA Bond Market Size [Webpage accessed 13. October 2021] <a href="https://www.icmagroup.org/Regulatory-Policy-and-Market-Practice/Secondary-Markets/bond-market-size/">https://www.icmagroup.org/Regulatory-Policy-and-Market-Practice/Secondary-Markets/bond-market-size/</a>
- [43] IEA (2021), World Energy Outlook 2021, IEA, Paris <a href="https://www.iea.org/reports/world-energy-outlook-2021">https://www.iea.org/reports/world-energy-outlook-2021</a>
- [44] IAEA Nuclear Energy for a Net Zero World (2021), IAEA, Vienna <a href="https://www.iaea.org/sites/default/files/21/10/21-01495e">https://www.iaea.org/sites/default/files/21/10/21-01495e</a> bro net zero world web v3 reduced size.pdf
- [45] N. Lichtenstein, A Comparative Guide to the Asian Infrastructure Investment Bank, 2018, Oxford University Press
- [46] WNA (2021) World Energy Need and Nuclear Power (updated May 2021), WNA, London <a href="https://world-nuclear.org/information-library/current-and-future-generation/world-energy-needs-and-nuclear-power.aspx">https://world-nuclear.org/information-library/current-and-future-generation/world-energy-needs-and-nuclear-power.aspx</a>
- [47] IAEA (2020) Energy, Electricity and Nuclear power Estimates for the Period up to 2050, Reference Data Series No. 1, 2020 Edition, IAEA, Vienna <a href="https://www-pub.iaea.org/MTCD/Publications/PDF/RDS-1-40-web.pdf">https://www-pub.iaea.org/MTCD/Publications/PDF/RDS-1-40-web.pdf</a>
- [48] Standard & Poor's Ratings Direct *International Bank for Reconstruction and Development (February 18, 2021)*, Standard & Poor's, New York <a href="https://thedocs.worldbank.org/en/doc/752691614902053737-0340022021/original/FinalSPIBRDFeb182021.pdf">https://thedocs.worldbank.org/en/doc/752691614902053737-0340022021/original/FinalSPIBRDFeb182021.pdf</a>
- [49] Standard & Poor's Global Ratings Supranationals Special Edition October 2020, S&P Global Ratings, New York <a href="https://www.spglobal.com/">https://www.spglobal.com/</a> assets/documents/ratings/research/100046890.pdf



- [50] United Nations Department of Economic and Social Affairs Sustainable Development Goals [online] <a href="https://sdgs.un.org/goals">https://sdgs.un.org/goals</a>
- [51] World Bank (2021) World Development Indicators (2121.07.30), Global Electrification Database World Bank [online], Washington DC <a href="http://data.worldbank.org/data-catalog/world-development-indicators">http://data.worldbank.org/data-catalog/world-development-indicators</a>
- [52] Center for Sustainable Systems, University of Michigan. 2021. "U.S. Energy Storage Factsheet." Pub. No. CSS15-17. <a href="https://css.umich.edu/factsheets/us-grid-energy-storage-factsheet">https://css.umich.edu/factsheets/us-grid-energy-storage-factsheet</a>