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Bill Kellogg UNA-BC Discussion Series – Thursday June 2, 2022 – Additional Resource Materials

Links provided by Helen El Mallakh, Managing Editor, *The Journal of Energy and Development* and Director and Co-Chair of [ICEED](#) (The International Research Center for Energy and Economic Development).
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UN Sustainable Development Goals: The Role of Energy and a Challenging Geopolitical Landscape

- [UN Sustainable Development Goals: #7 AFFORDABLE AND CLEAN ENERGY](#): Ensure access to affordable, reliable, sustainable, and modern energy
- Dea Bankova, Prasanta Kumar Dutta and Michael Ovaska, "[The war in Ukraine is fueling a global food crisis](#)," *Reuters*, May 30, 2022.
- Foreign Policy Contributors, "How Putin's War Caused a Global Food Crisis," [Foreign Policy](#), May 29, 2022.
- International Renewable Energy Agency (IRENA), "[Renewables Take Lion's Share of Global Power Additions in 2021](#)," IRENA, April 11, 2022.
- Anandajit Goswami, Shailly Kedia, Saswata Chaudhury, and Atul Kumar, "[Impact of Clean Energy Interventions on Development in India: A Techno-economic Analysis](#)," *The Journal of Energy and Development*, vol. 45, no. 2 (copyright 2021), pp. 133–157.

Energy Production: Russia and Its Competitors

- International Energy Agency (IEA), "[Energy Fact Sheet: Why does Russian oil and gas matter?](#)" IEA Website, March 2022.
- U.S. Department of Energy's Energy Information Administration (EIA), [Country Analysis Briefs](#)
- U.S. Department of Energy's Energy Information Administration (EIA), "[Oil and petroleum products explained](#)," EIA Website.

Impact of Sanctions on Russia

- Rob Schmitz, "[The EU will block most Russian oil imports as Hungary's Orbán fights off a total ban](#)," NPR, May 31, 2022.
- Isabeau van Halm, "How can the EU end its dependence on Russian gas?" [Energy Monitor](#), May 11, 2022.
- Brian Evans, "[Putin ally China is boosting Russian oil purchases by nearly 50% after initially cutting back](#)," *Business Insider*, May 20, 2022
- Mimansa Verma, "[How Russia made its ruble the world's top-performing currency](#)," *Quartz*, May 23, 2022.
- Adam, McCarthy, "[Europe is closing in on Russian oil sanctions, but looks set to stop short of a full-blown ban. Here are 3 charts to explain why](#)," *Market Insider*, April 27, 2022.

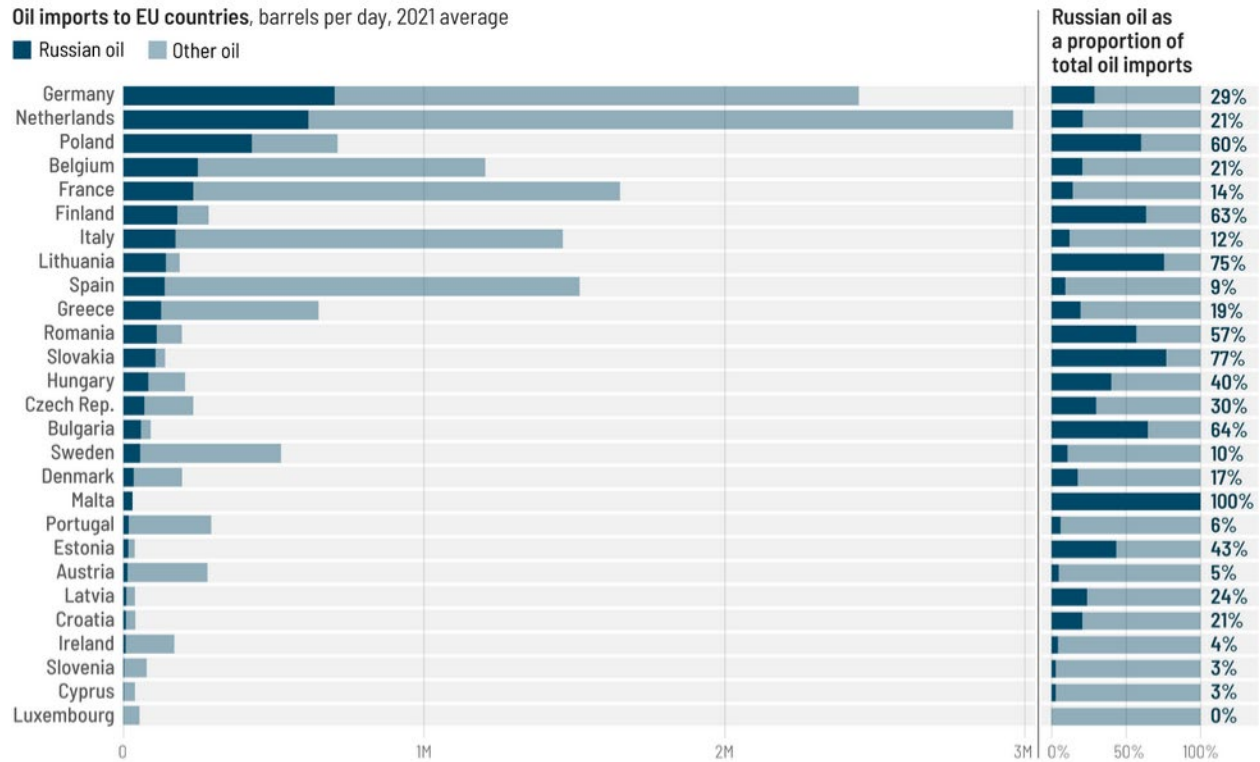
The Current Geopolitical and Economic Factors Impacting Metals Used for Green Tech/Low-Carbon/Renewables:

- Chris Baraniuk, "[The perfect storm increasing the cost of a crucial metal](#)," *BBC News*, May 3, 2022.
- "[Ukraine War Intensifies Low-Carbon Supply-Chain Disruptions](#)," *Fitch Wire*, April 1, 2022.
- Matthew Daly, "[Biden's order to increase mining to power electric vehicles raises contamination concerns](#)," *PBS Newshour*, April 30, 2022.

- Nick Carey and Christina Amann, [“Carmakers face soaring metal costs with Russian supplies at risk,” Reuters](#), March 8, 2022.
- Marianne Lavelle, [“Russia’s War in Ukraine Reveals a Risk for the EV Future: Price Shocks in Precious Metals,” Inside Climate News](#), March 28, 2022.

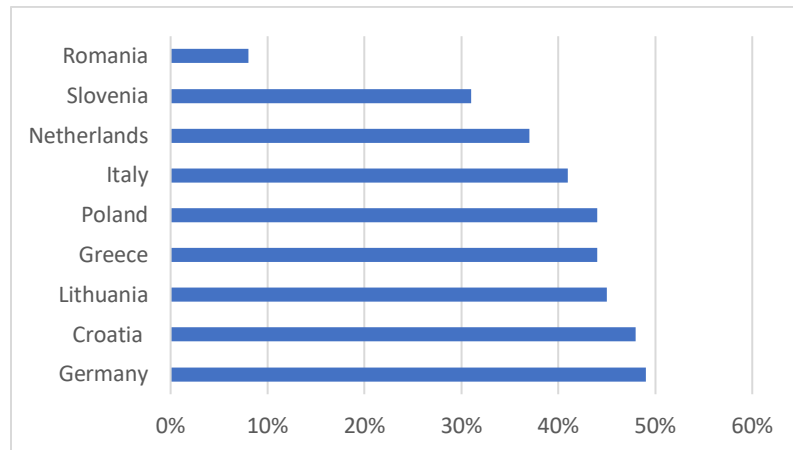
Last year, the EU relied on Russia for 23% of its oil imports

Germany, Netherlands and Poland were the European Union’s largest importers of Russian oil by volume in 2021. And nearly one in four EU countries relied on Russia for more than half of their oil imports.



Source: International Energy Agency
 Graphic: Henrik Pettersson and Rachel Jung, CNN

European Dependence on Russian Natural Gas (share of Russian natural gas supply, 2019)



Source: [Agency for the Cooperation of Energy Regulators](#)