IMPLEMENTING THE GREEN ENERGY TRANSITION

What Would It Take?

Patrick M. Barkey, Director Bureau of Business and Economic Research

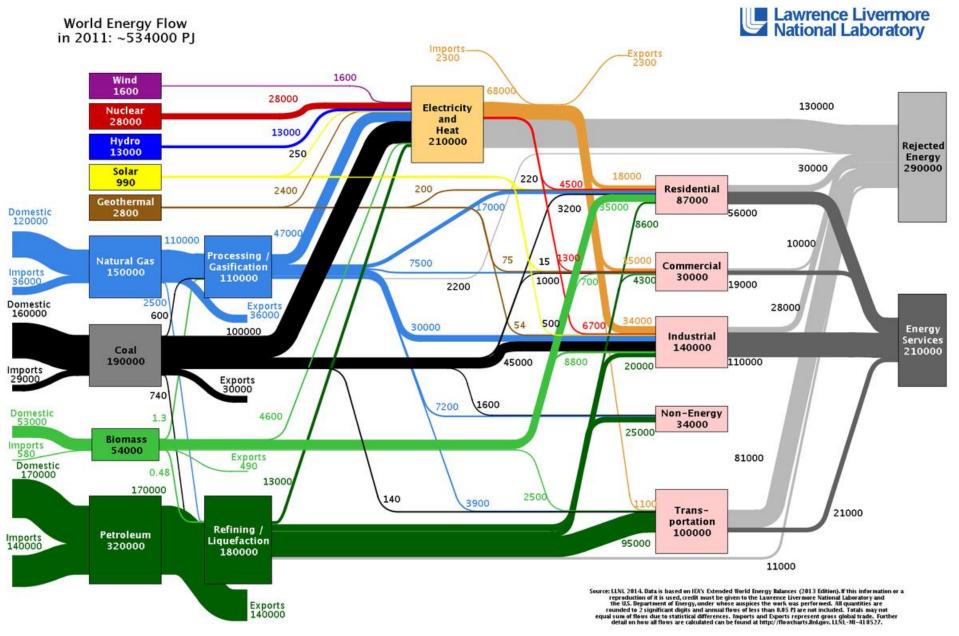


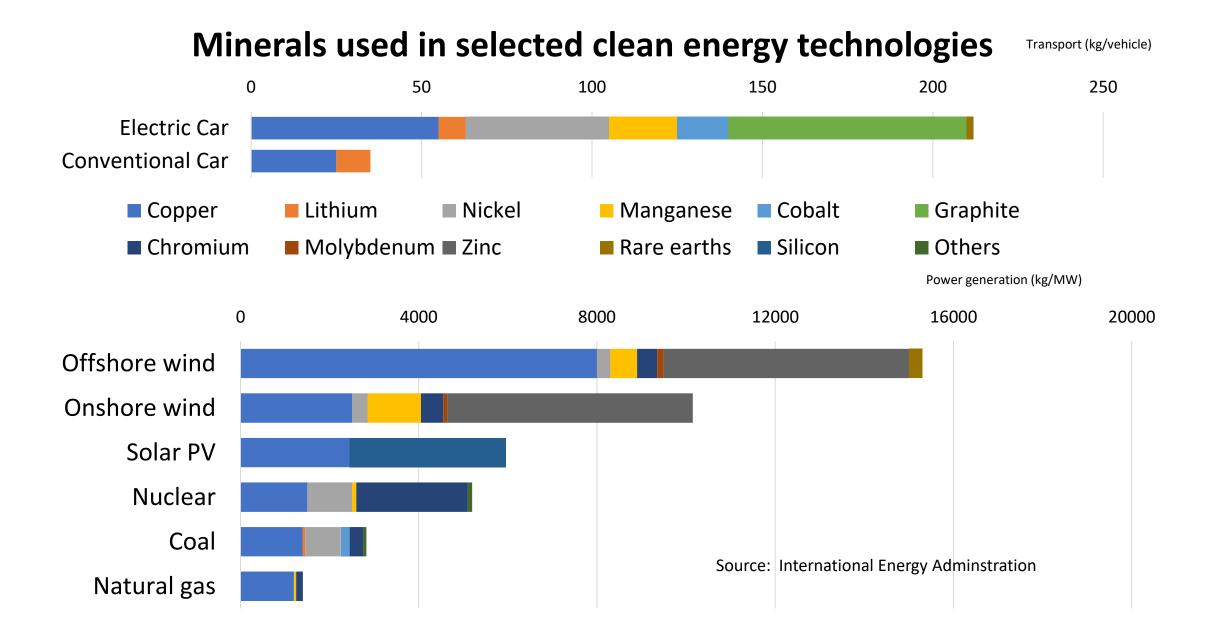


A Transition Like No Other

- Transforming a global economy that is much larger than energy transitions of the past
- Driven by policy, not economics
- The green energy transition needs to be complete
- To impact climate, it must be carried out globally
- The speed that is promised is unprecedented

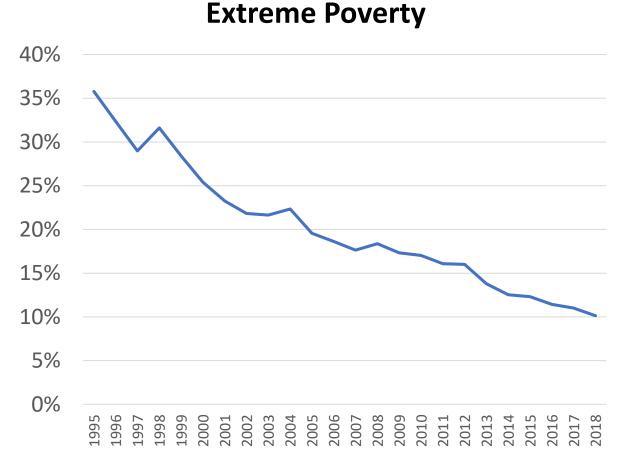
The Flow of Global Energy in 2011





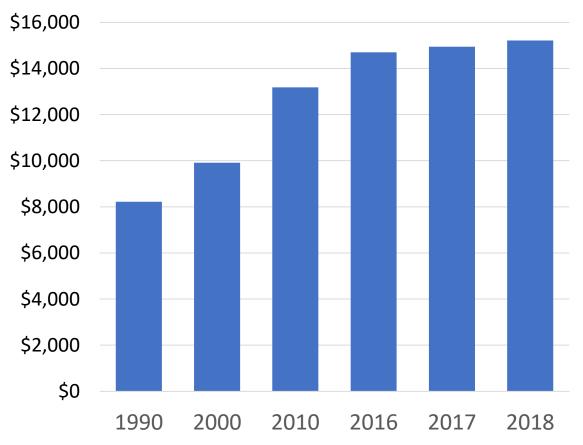
The Industrialization That is Reshaping the World Requires Energy

Percent of World Population in

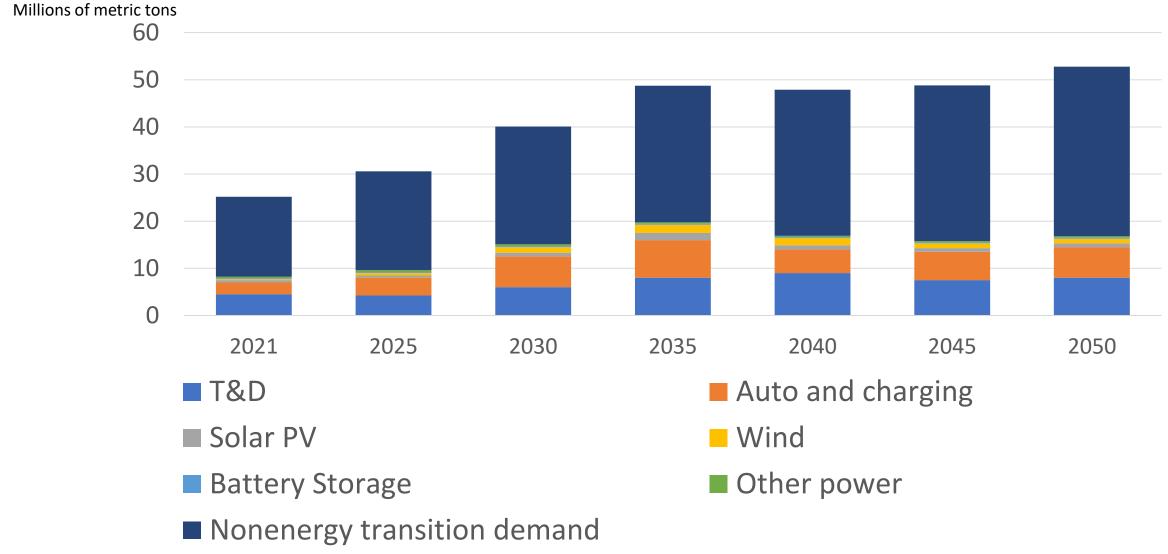




2011 US Dollars



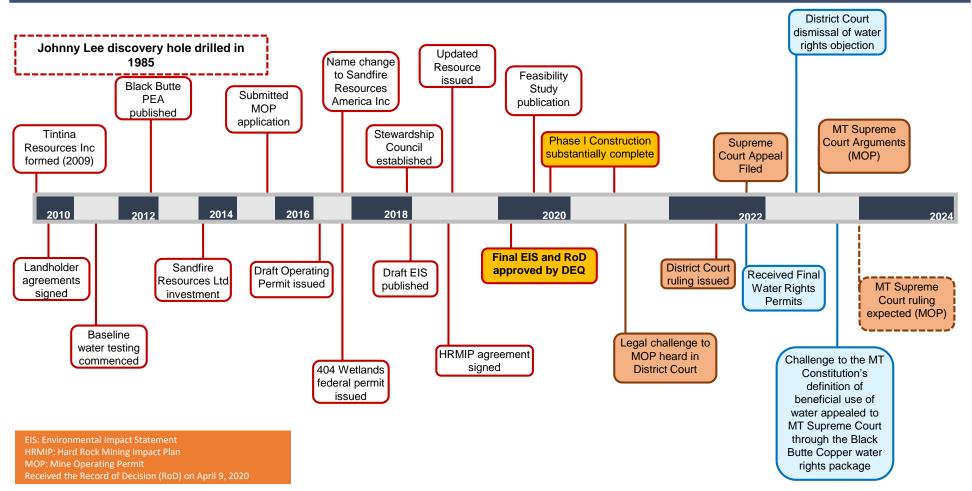
Global refined copper usage, 2021-2050



Source: S&P Global

Permitting Timeline





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