Ralph J Dixon Executive Director of Sustainability, YTL Corp Chief Executive Officer, YTL-SV Carbon

JC3 Conference Renewables & Mobility

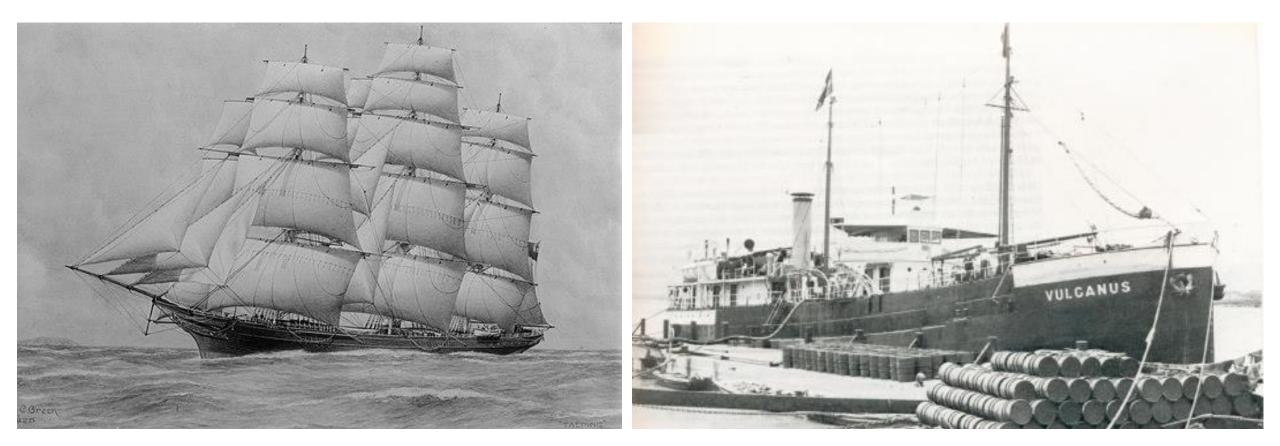




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Road Transport 1900 → 1913





Shipping 1880 → 1910



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Throwaway Living DISPOSABLE ITEMS CUT DOWN HOUSEHOLD CHORES



Petrochemicals 1950 → 2023



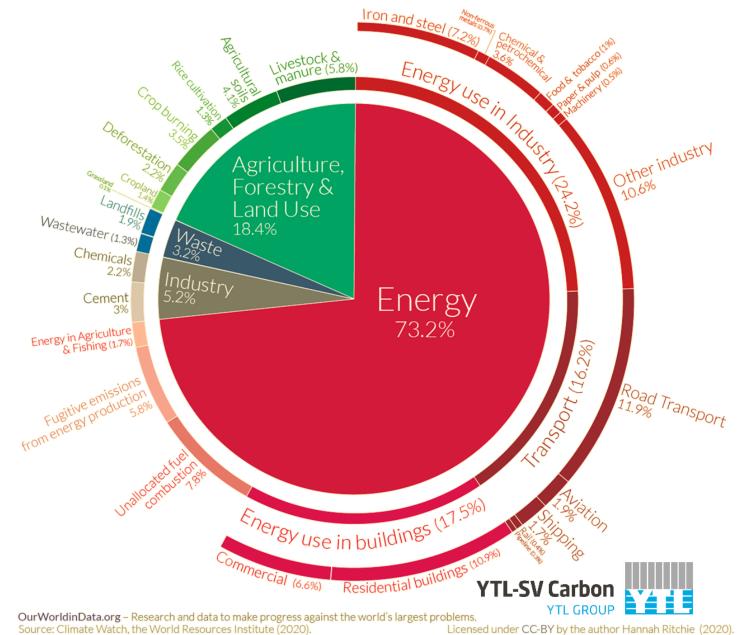




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Emissions - Gases & Breakdown

Greenhouse gas	Global warming potential (GWP)
Carbon Dioxide (CO2)	1
Methane (CH4)	28
Nitrous Oxide (N2O)	265
Perfluorocarbons (PFCs)	6630-11100
Sulfur Hexafluoride (SF6)	23500
Hydrofluorocarbons (HFCs)	12400
Nitrogen Trifluoride (NF3)	16100



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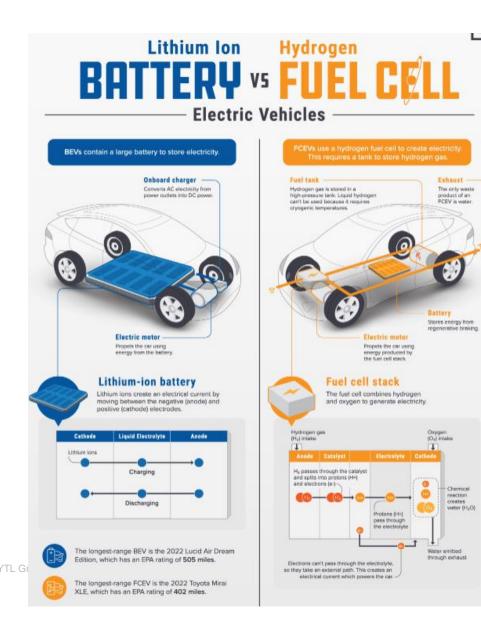
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https://www.ytl-svcarbon.com/

Source: AR5

Source: Climate Watch, the World Resources Institute (2020).

1. Hydrogen & Ammonia Economy

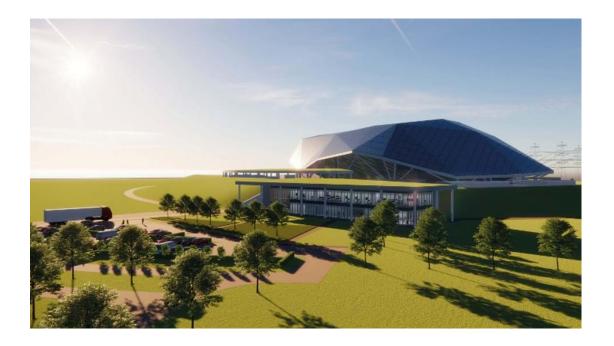


Passenger Vehicle Weight BEV vs. H2FCEV + 400 kg - 500 kg





2. Nuclear Fusion SMRs



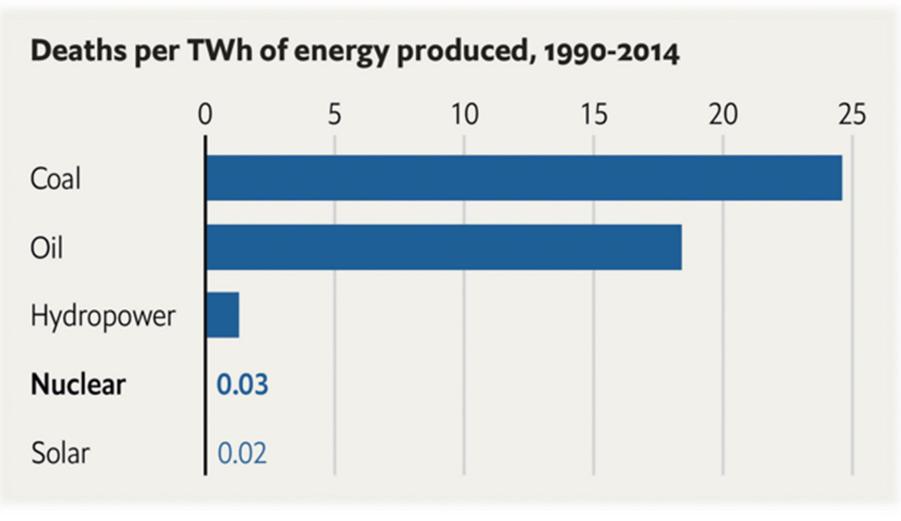


NUCLEAR POWER IS THE ONLY GREEN SOLUTION

We have no time to experiment with visionary energy sources, writes **James Lovelock** – civilisation is in imminent danger. Published in *The Independent*, 24 May 2004.



Fatalities from direct energy generations



Deaths per TWh of Energy Produced (Source: The Economist)



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Average life-cycle carbon dioxide-equivalent emissions for different electricity generators

