Insights Unwrapped

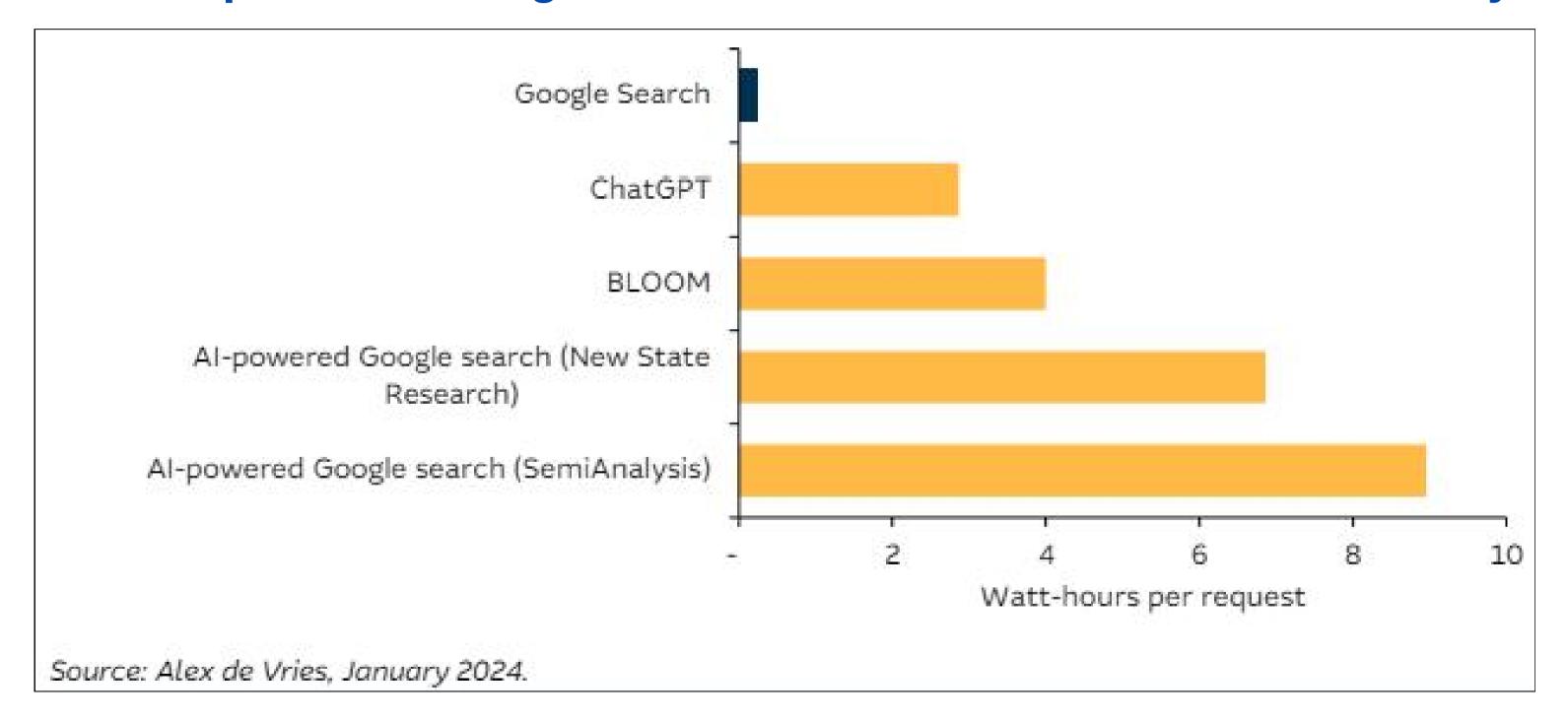
Lighting the Nuclear Power: The Cleanest Approach



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High Energy Footprint of Artificial Intelligence

A typical Google search consumes ~0.3Wh of electricity, while an Al-powered Google search consumes ~7-9 Wh of electricity.



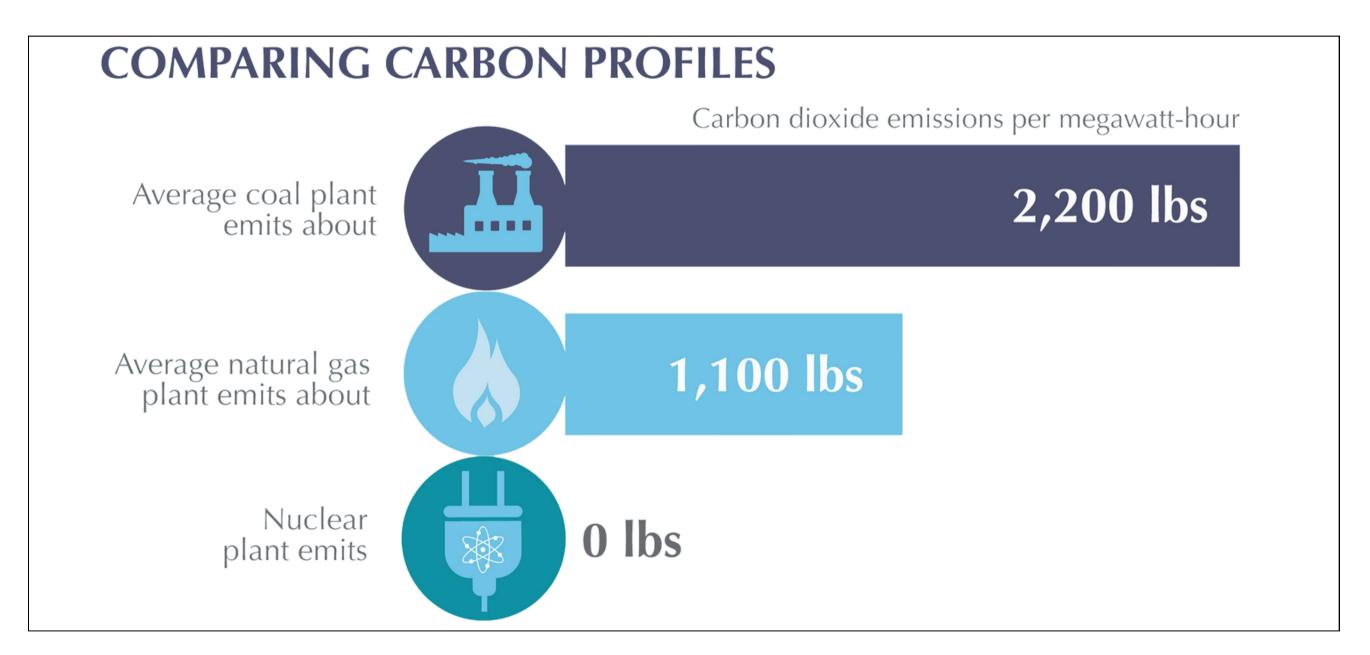


Al Giants in the USA seek Nuclear Energy

- Oracle has secured permits to build three Small Modular Reactors (SMR) to power its Al data center. (source: recent Oracle concall notes)
- Microsoft is seeking to power its datacenters with Small Modular Reactors.
- Notable companies making strides in SMR technology include Rolls-Royce, Last Energy, NuScale and Oklo.



Nuclear Energy's Contribution to Clean Power



Source: Centre for Climate and Energy Solutions

- In 2023, Nuclear Energy provided 19% of all US electricity.
- It contributed 47% of the nation's zero emissions powermore than 10% higher than utilityscale wind and solar combined.

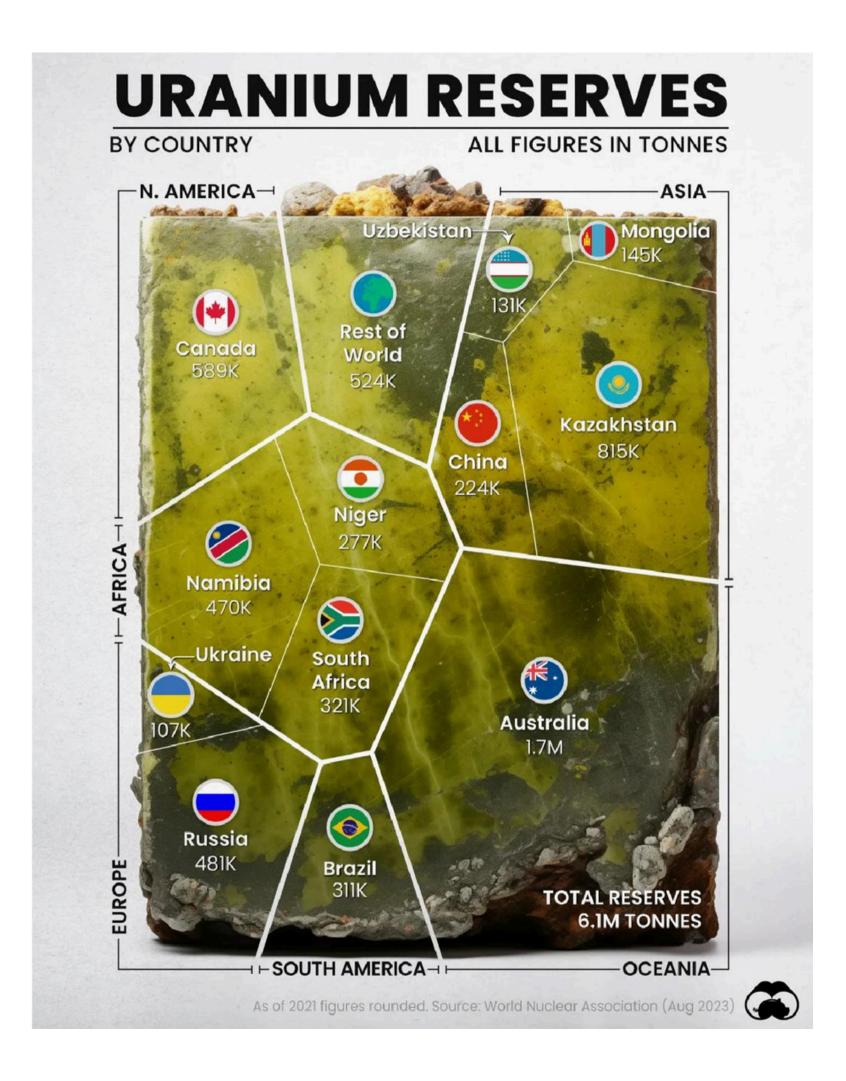


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Facts about Nuclear Energy

- Australia has the highest
 Uranium reserves (28%) followed
 by Kazakhstan (14%), Canada
 (9%) and Russia (8%).
- One Uranium fuel pellet creates as much energy as one ton of coal or 17,000 cu feet of natural gas.

Source: nei.org







Global Nuclear Power Capacity

- As of late 2023, global nuclear power capacity stood at 396 gigawatts (GW). An additional 299 GW is in development.
- If this prospective capacity comes online, global nuclear capacity could increase to 695 GW, a jump of over 75%.
- India is proposed to have a 10% share in this expansion.



Source: Global Energy meter; Range ETFs/ Visual Capitalist

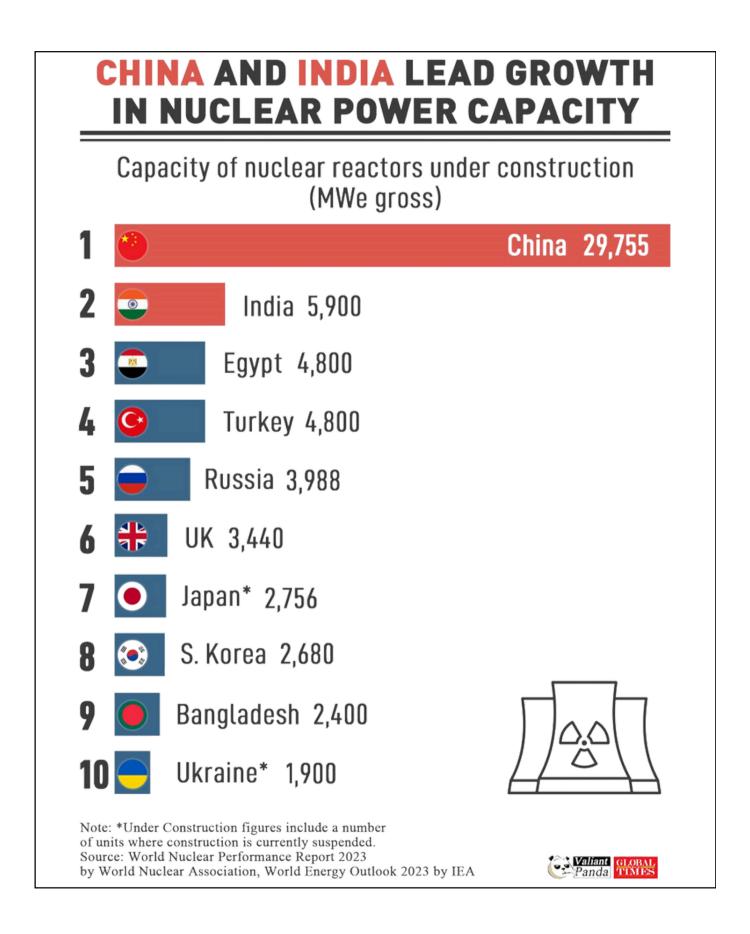




China and India to lead the growth

A typical nuclear power plant generates enough electricity to power 6,90,000 homes without creating air emmisions.

Source: nei.org



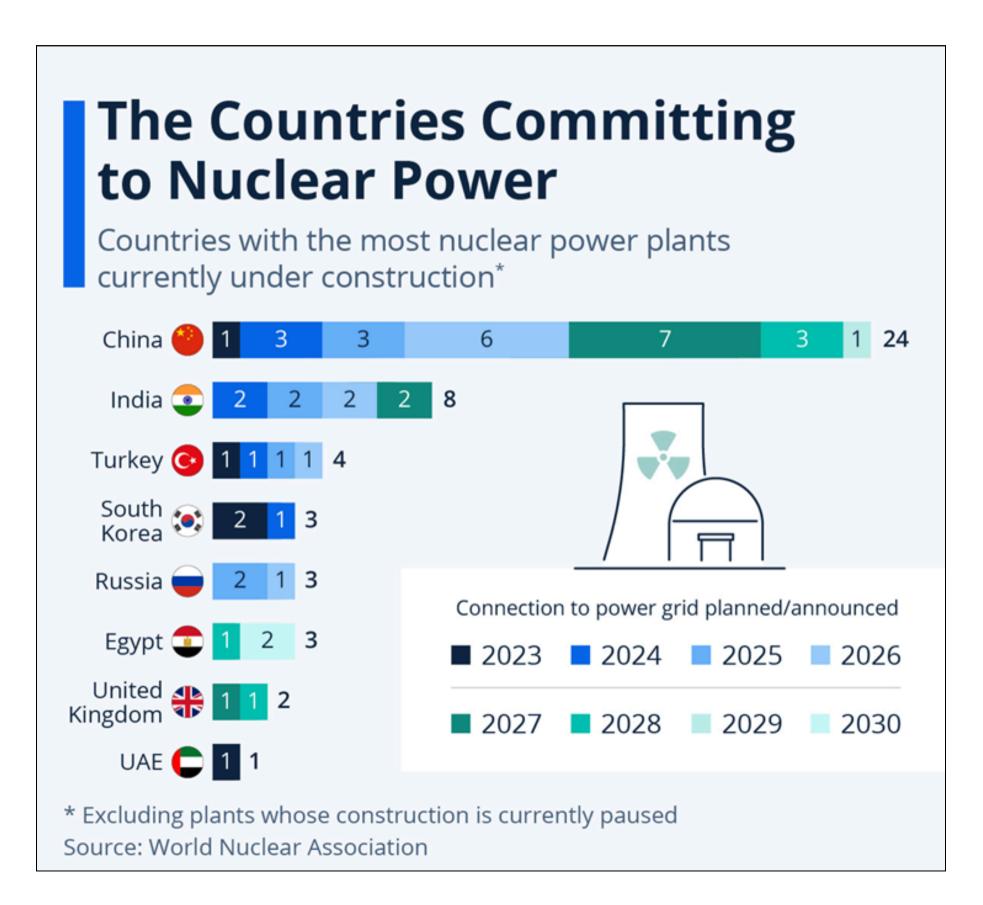


India's Nuclear Power Future

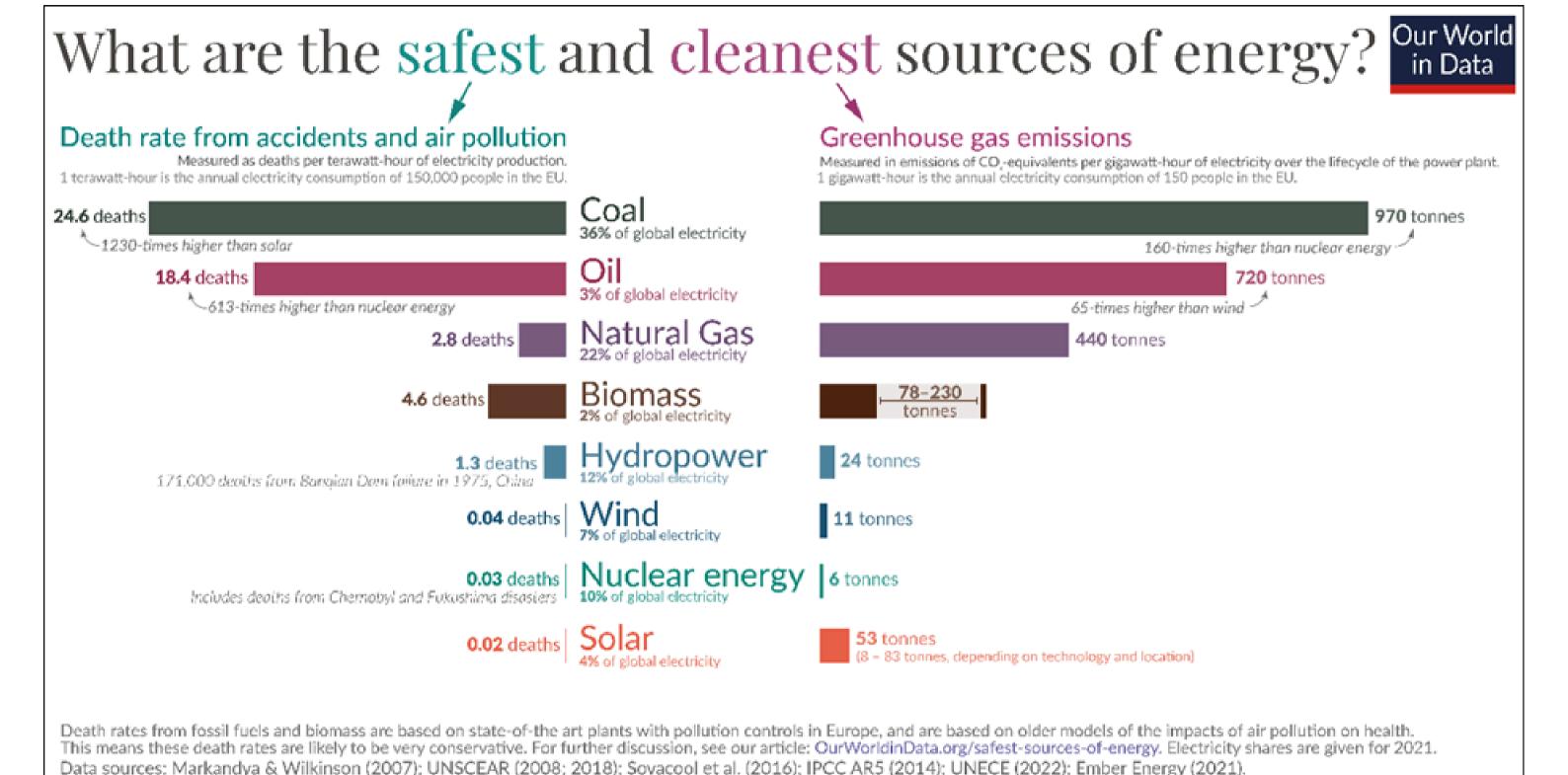
- India's Nuclear Power generation capacity is expected to increase by around 75% in the next 5 years.
- The installed capacity is projected to grow from 7.48 GWe to 13.08 GWe by 2029.

Source: Department of Atomic Energy; PIB

Watch out for companies in this space.







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