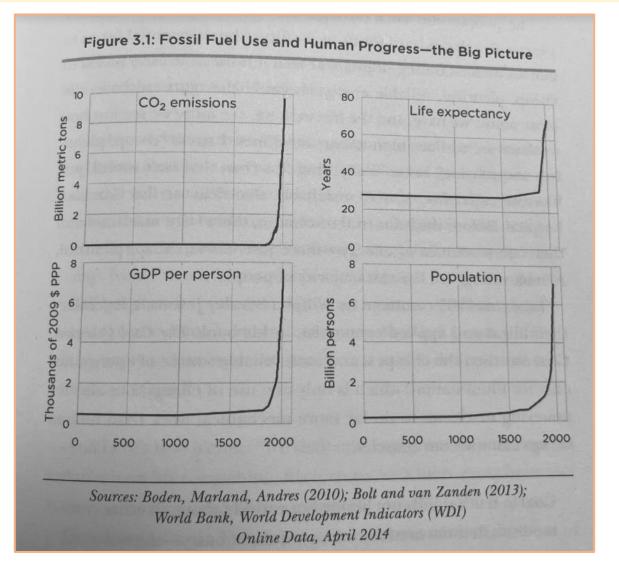
The Moral Case for Fossil Fuels A healthy, moral choice for the

development of humanity

Epstein argues that fossil fuels can *improve* human well-being.

GDP per person and life expectancy data trend <u>directly in tandem</u> with CO₂ emissions



Epstein argues that fossil fuels involve the greatest technology.

The world's leading fuel for electricity – producing of the world's electricity in 2011 – and is expected to

become the leading source of energy overall. In the developing world, it has been the overwhelming choice for every country that has industrialized recently

Coal is...

- Easy to extract & transport
- Plentiful & widely distributed
- Little processing

and has single-handedly...

- Decreased infant mortality rate
- Improved drinking water
- Increased electricity availability and consumption

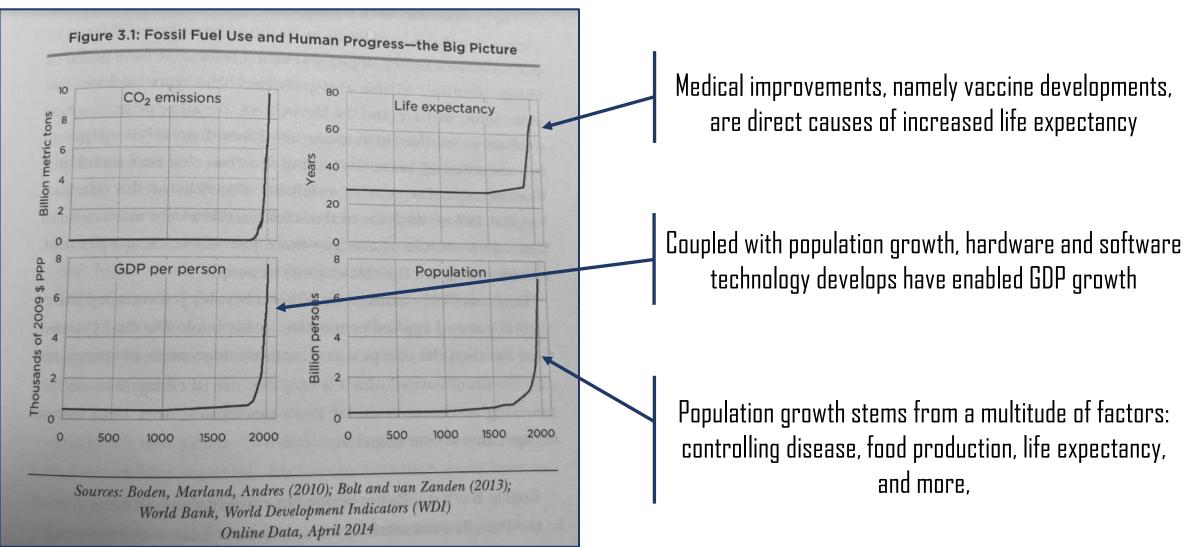
Epstein argues that renewable energy is a risk-adjusted resource.

"Wind turbines require far more toxic materials than fossil fuels do- materials called rare-earth elements. These are "rare," not in the sense that there are few of them, but in the sense that they exist in low concentrations on the Earth: it takes a lot of mining and a lot of separating of the desired metals from other elements using hazardous substances like hydrofluoric acid in order to get usable rare earth elements."

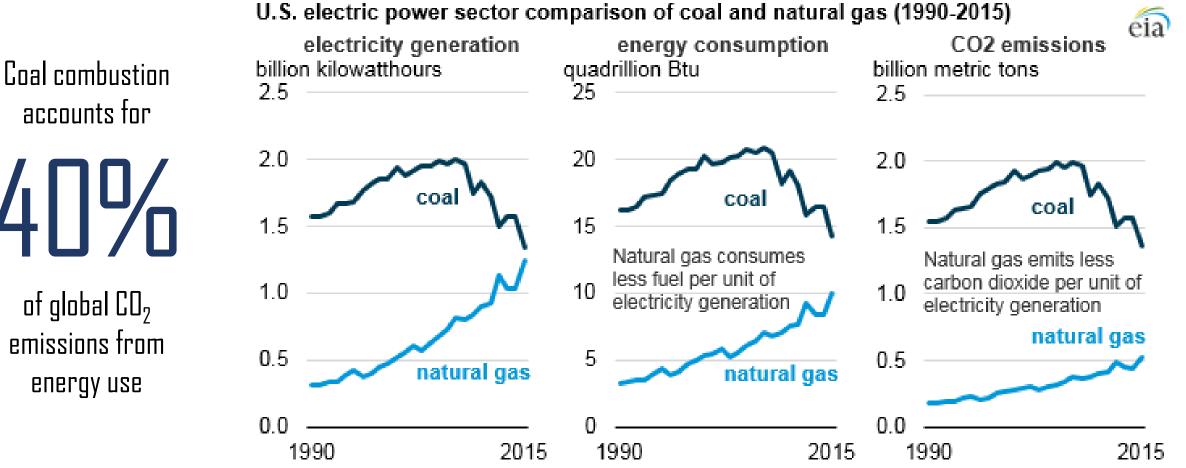
The Moral Ramifications of Fossil Fuels

Fossil fuels have and will continue to deteriorate our climate and wellbeing

Epstein considers correlational evidence to be causational



Epstein correctly acknowledges the widespread presence of coal without recognizing its negative impacts



Sources: Nature, US Energy Information Administration

Epstein does not recognize the expansiveness of the clean energy universe or the wellbeing impacts of fossil fuels

The energy transition landscape is well-diversified with the current, core growth drivers outside of wind



Fossil fuels are responsible for **8,000,000** deaths annually

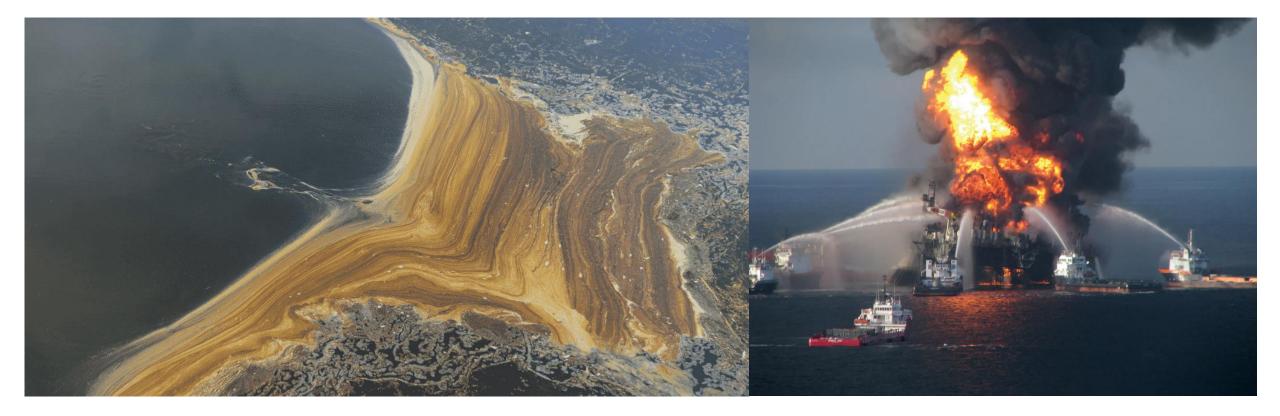
Levelized Cost of Energy Comparison—Unsubsidized Analysis

Selected renewable energy generation technologies are cost-competitive with conventional generation technologies under certain circumstances



Source: Lazard estimates.





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