

Announcements

- Yaa Gyasi event
- Second midterm exam
 - Deadline extended until Sunday, Nov. 6 at 11:59
- No class next Thursday, 11/3



General Comments on Essays

- Analytical essay vs. chronological/descriptive essay
- Analytical Topic Sentences
 - An “assertion” based on analysis of material that provides the focus and structure of ensuing paragraph.
 - NOT an analytical topic sentence: “First, we discussed sports.”
 - Analytical topic sentence: “Sports is a critical factor in understanding British popular culture.”

Summary from Tuesday

- The “Takeaways” =
 - Global conflicts and challenges
 - Limitations on nation-states
 - Need for cooperation
 - Resistance to “globalizing” trends and features
 - The nation-state on the rebound?

Transitions

- Economic development
- Technology and locations of production

GS 200. October 27, 2016

Energy and Growth

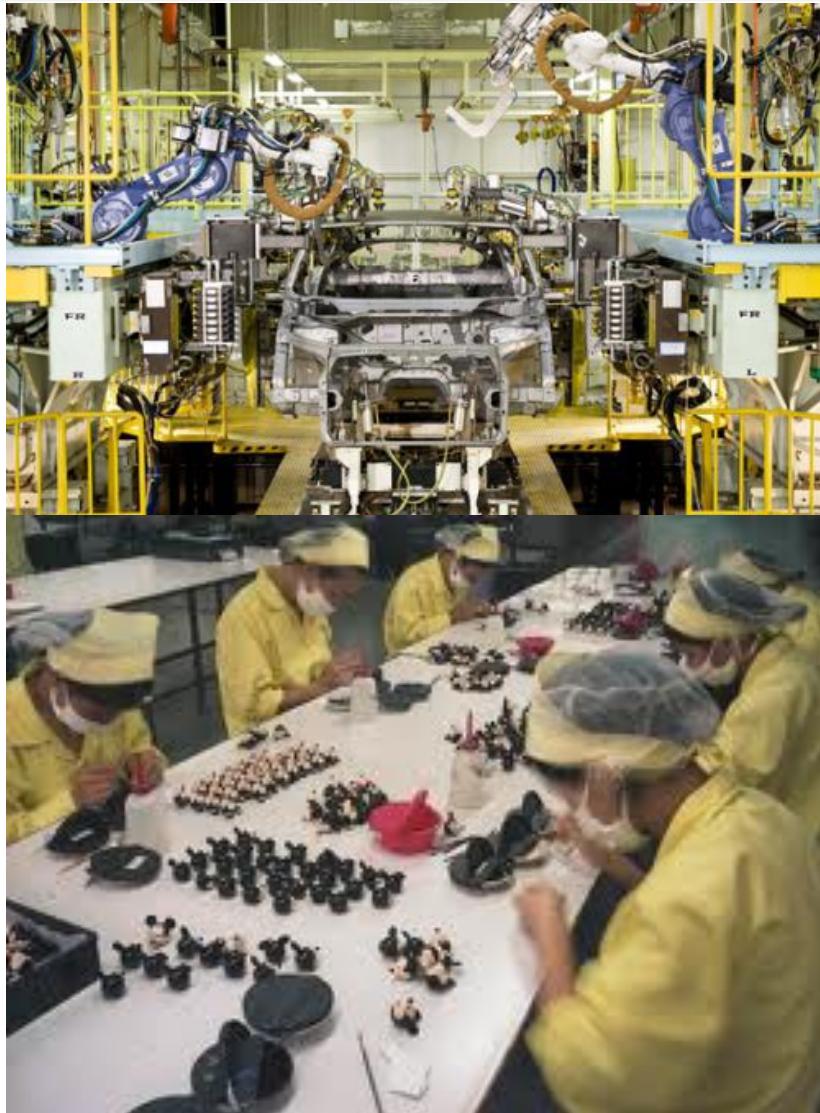
Objectives

- Explore how we “power” growth
 - Discuss the challenges and opportunities regarding energy production and supplies
- Introduce the matter of ethics regarding energy production and consumption

Perspectives

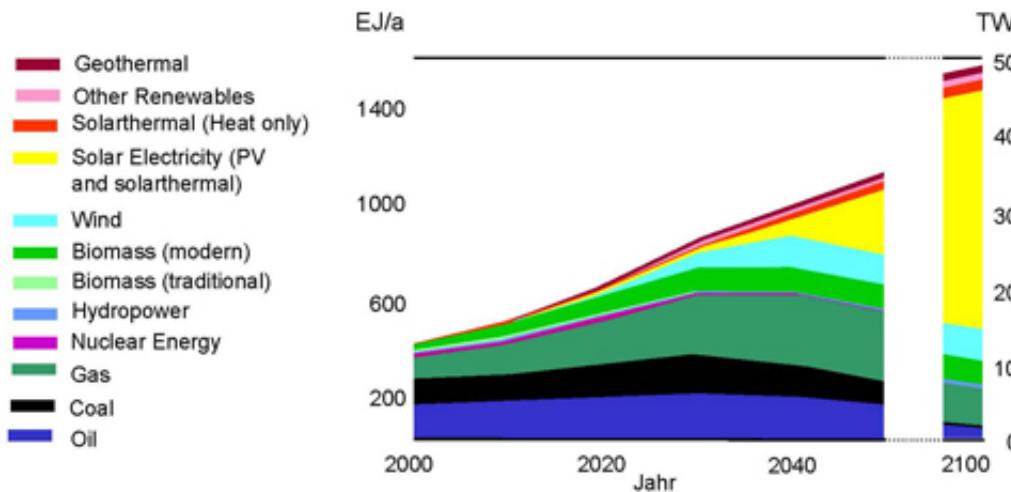
- When we think of energy and its sources, what perspectives influence groups' arguments about the sourcing of energy?
- When we think of energy and its consumption, what perspectives influence OUR attitudes and behaviors?

Resources – Production – Consumption

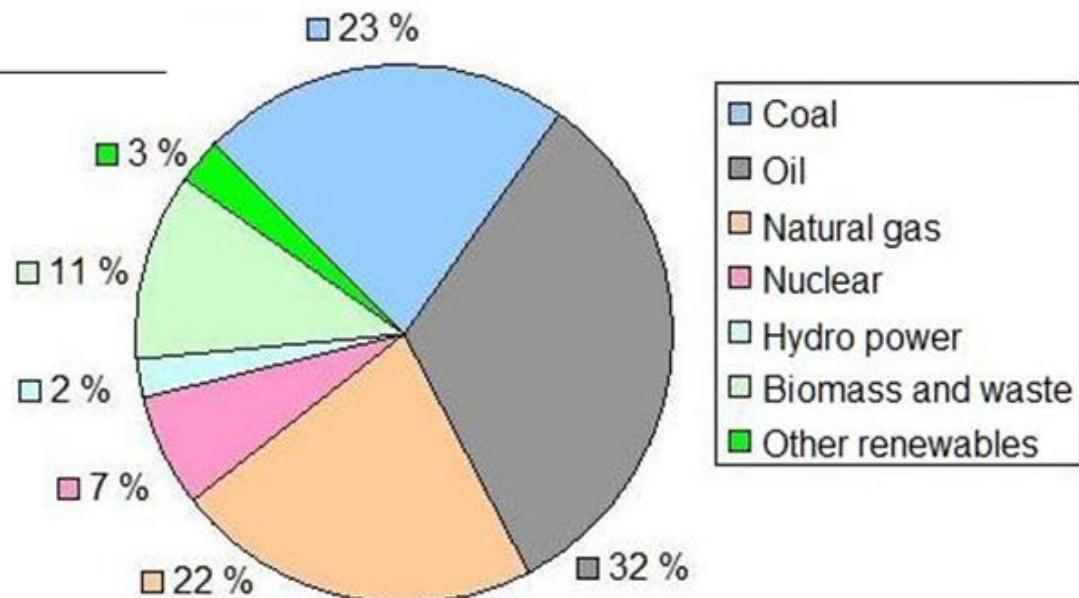


Global Interdependence

Exemplary Path, global primary energy consumption

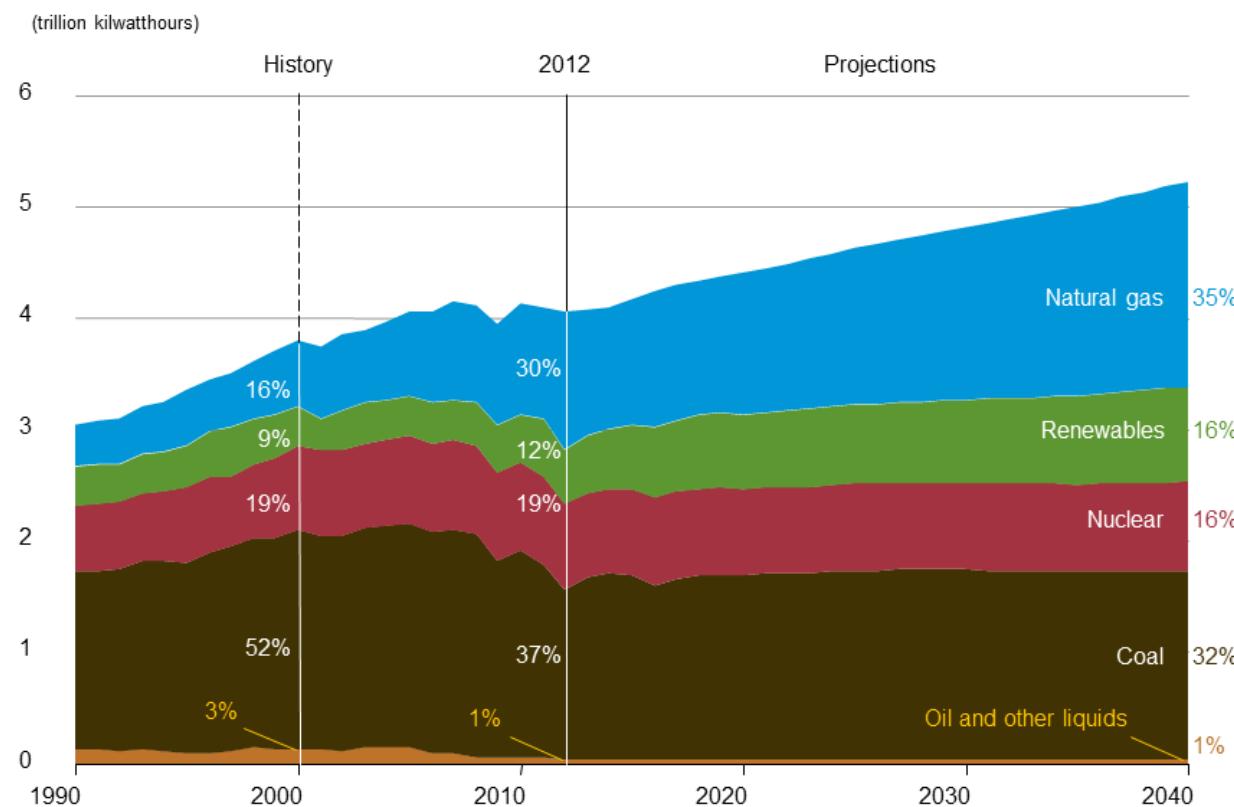


Source: Scientific Council of the German Federal Government on Global Environment Change, 2003, www.wbgu.de



Sources of Electricity Generation through 2040

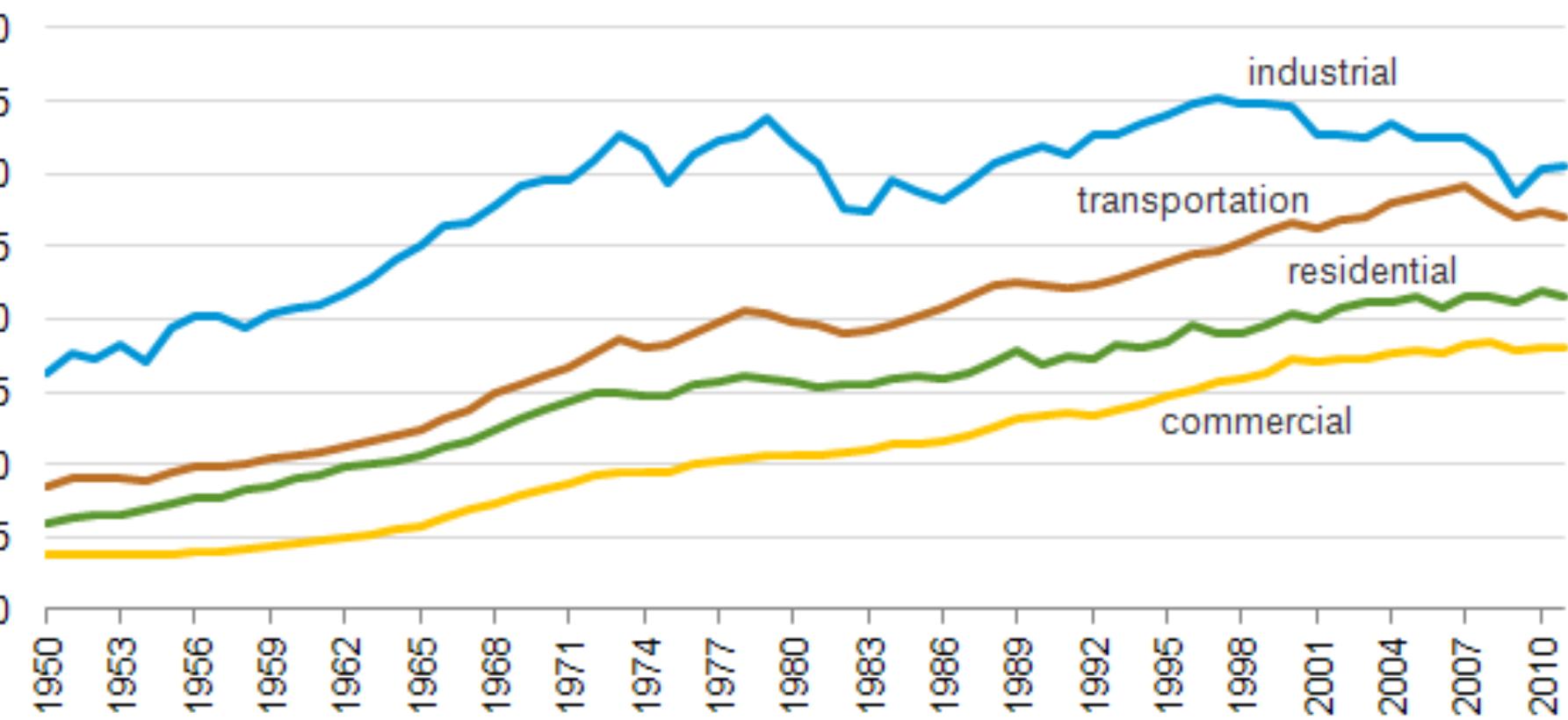
Figure 13. Electricity generation by fuel, 1990-2040



US Energy Consumption

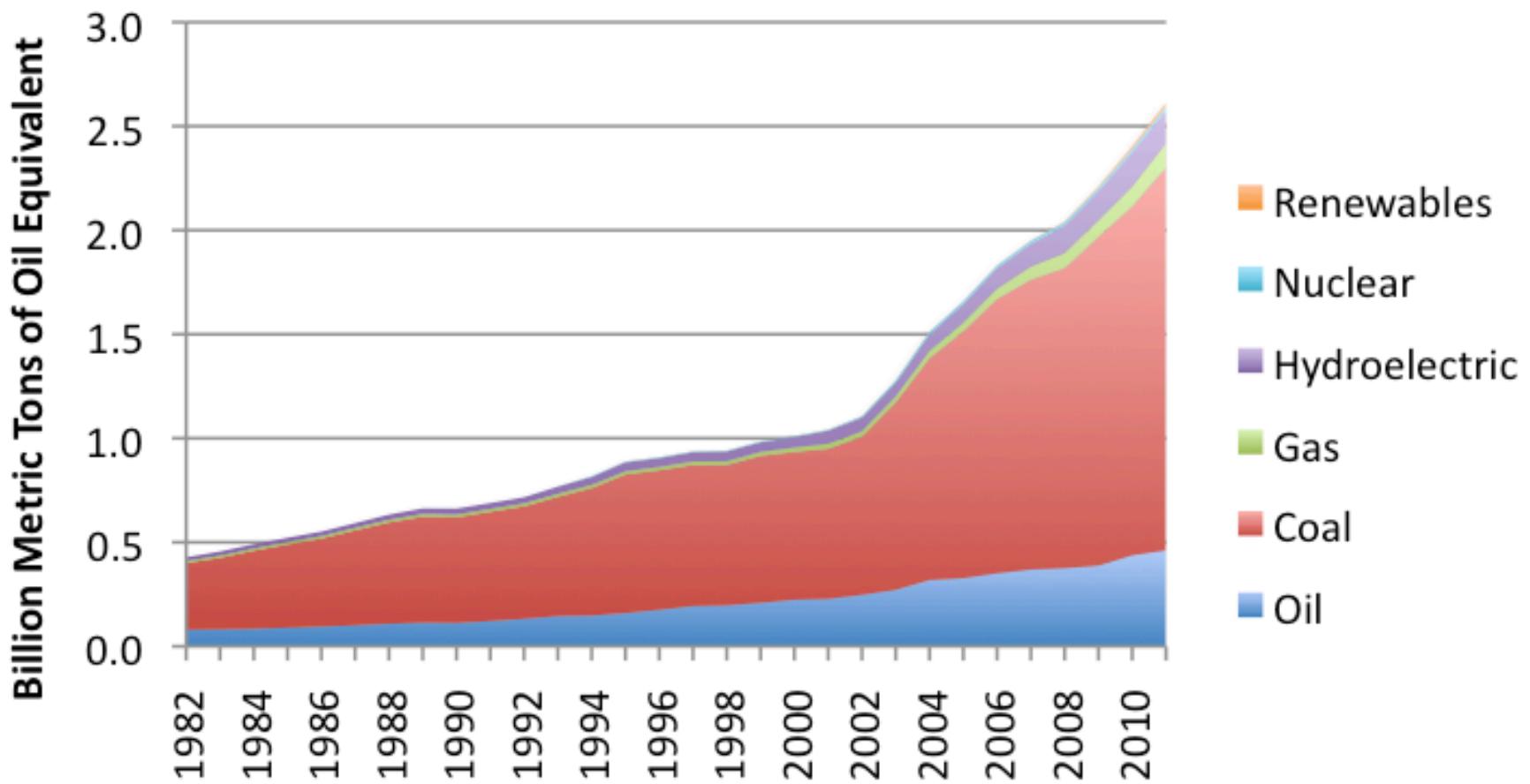
U.S. total energy consumption estimates by end-use sector, 1950-2011
quadrillion Btu

eia

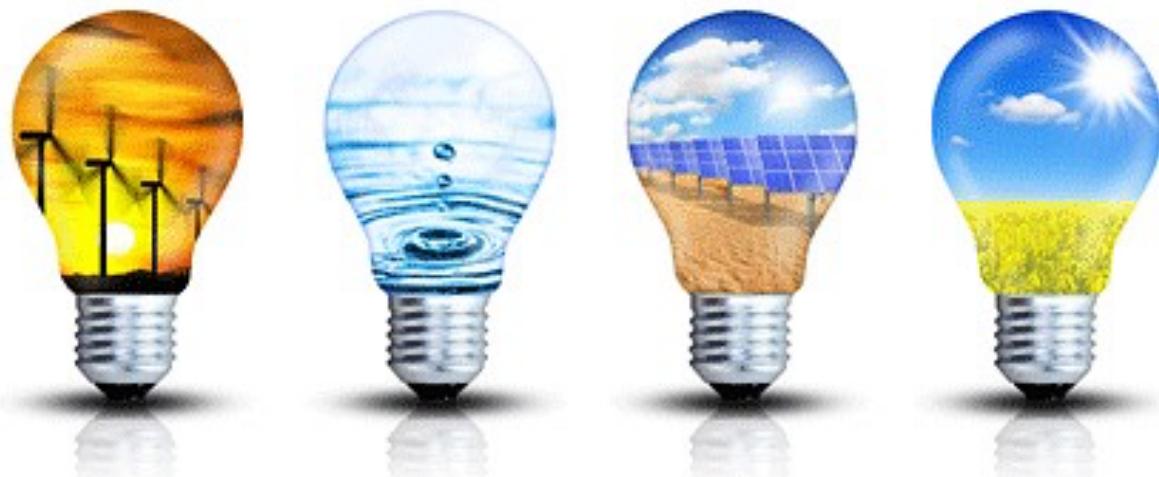


China and Energy Consumption

China's Energy Consumption by Source



- The world needs more and more energy. How will we get it?



Fossil Fuels

■ Coal

Pollution: fossil fuels are the largest single source of greenhouse gases



Credit: WWF

■ Oil

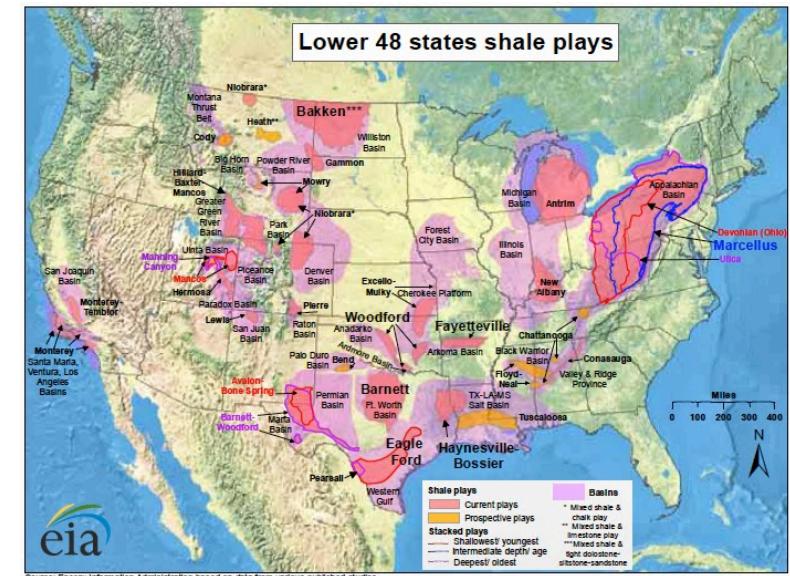
- Price graph
- Keystone Pipeline

■ Natural Gas



Hydraulic Fracturing

- “Fracking” - A global game changer?
- Natural gas – a “bridge” energy source?
- Concerns



Other Sources of Energy

- Nuclear
 - Clean, but...



- Hydroelectric
- Wind and solar power(renewable)



Ethanol (a biofuel?)



- The benefits
- The drawbacks
- Is it really a practical solution to our energy needs?



Ethics

- Definition
- Is there / should there be an “ethics of energy production” and an “ethics of energy consumption?”
- What could such ethical attitudes and practices look like?
- What might discourage such ethical thinking and practices?

Where will be in 25 years?

- If we could advise the leading global political leaders for the next 25 years in terms of energy, what would we say?
 - From a manufacturing perspective?
 - From a individual consumers perspective?
 - From an environmental perspective?
 - Are these perspectives mutually exclusive?

Conclusions

- The challenges of energy production and meeting growing needs
- Ethical and moral dilemmas and obligations regarding energy consumption

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