



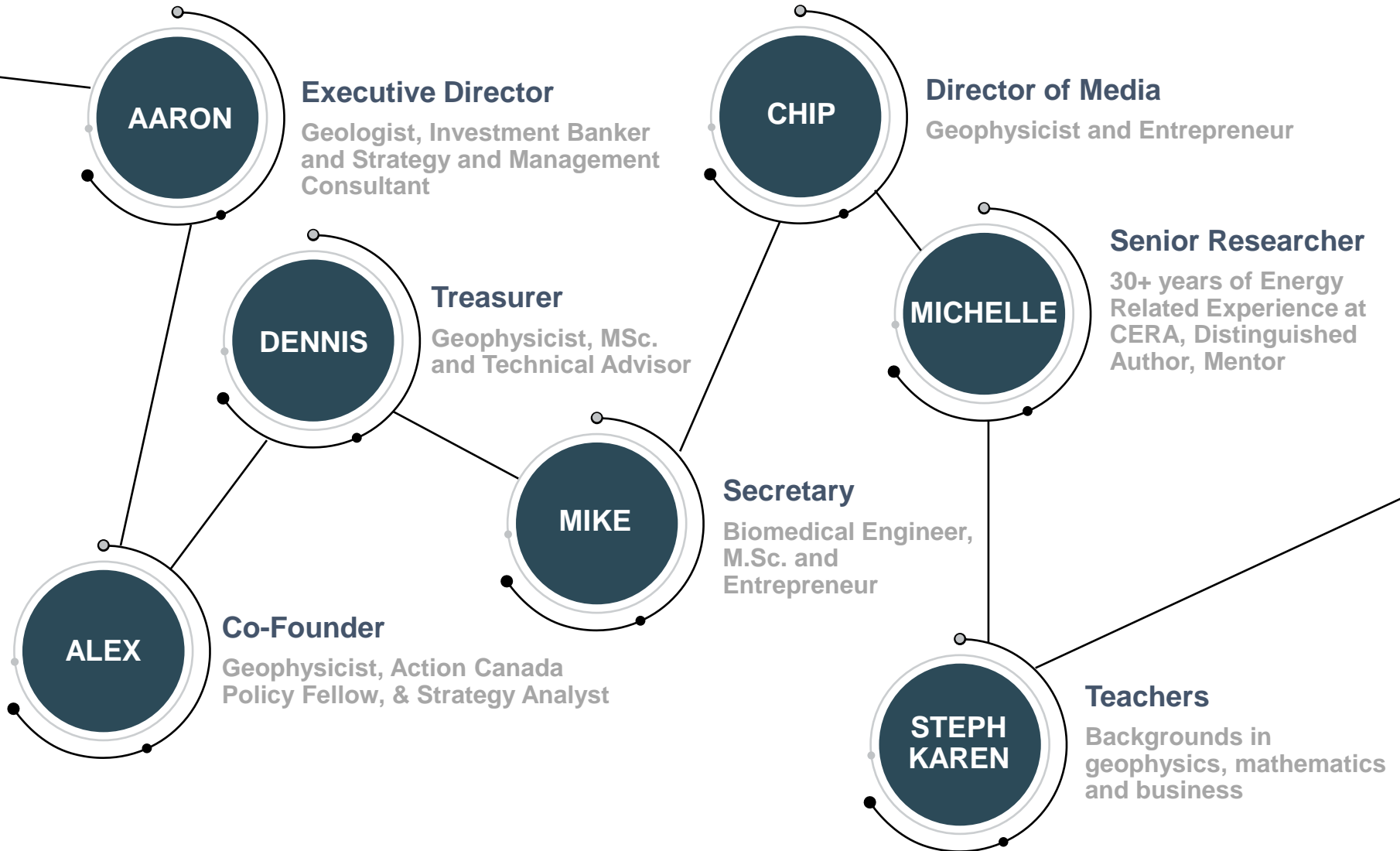
ENERGY
— minute —

Canadian Energy Eh?

Introduction

Energy Emissions and Transitions

The ENERGYminute Team



ENERGYminute Impact

Online Interactive Ecosystem

1

Videos

“ENERGYminute provides objectivity and pragmatism, along with a touch of fun to convey often complex information” –

**Victoria, BC,
ENERGYminute
Community Member,
Climate PHD Candidate**

2

Infographics

“I have been using your materials (videos, infographics) in my classes and have also forwarded your newsletters to my students. I’m writing to say a heartfelt thank you for being a reasonable and data-centric voice in the energy and environment conversation in this country.”

**Lindsay Colley,
Sustainability Professor –
York University, Toronto**

3

K-12

“ Anything that will REALLY engage students on energy is good”

**Jr. High teacher, Catholic
School Board**

“ I used to think of energy as one way, but now I see it can be intermittent”

**Grade 9 student &
workshop participant**

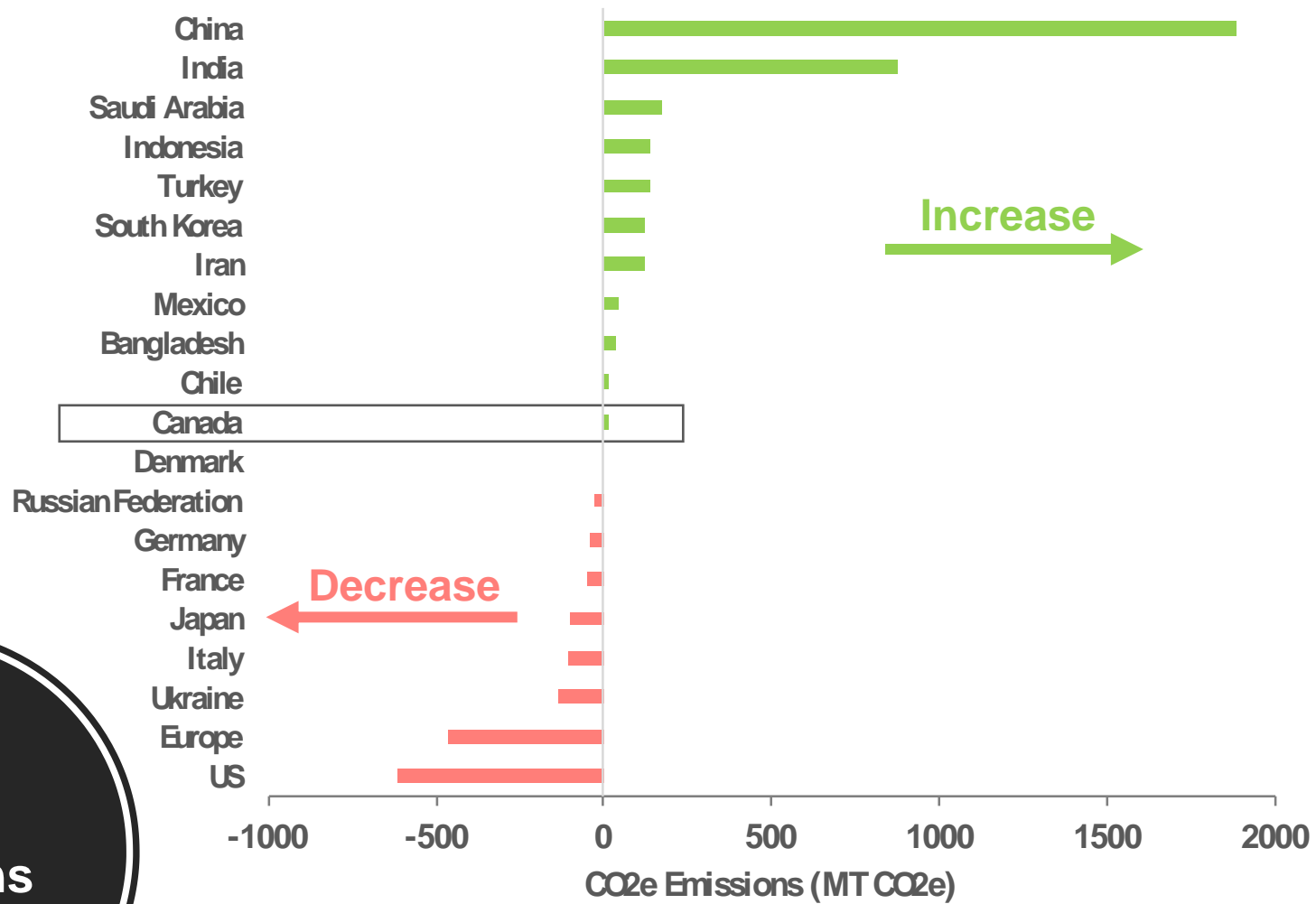
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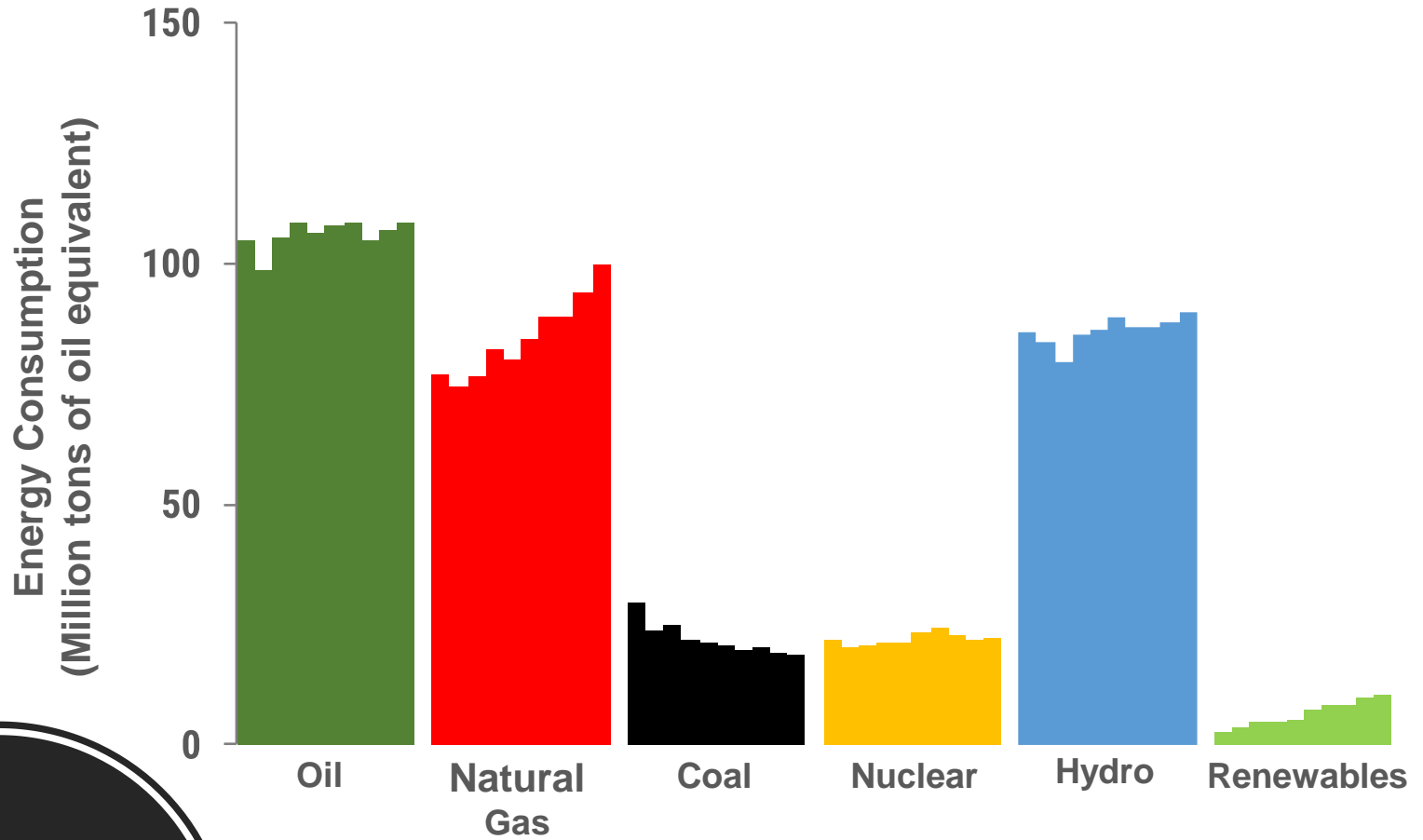
Newsletter

“I like how bite-sized casual, and newsy your [newsletter] is. Your tone is spot-on. Makes me happy to read it.”

**Ottawa, ON,
ENERGYminute
Community Member,
Sustainability
Professional**

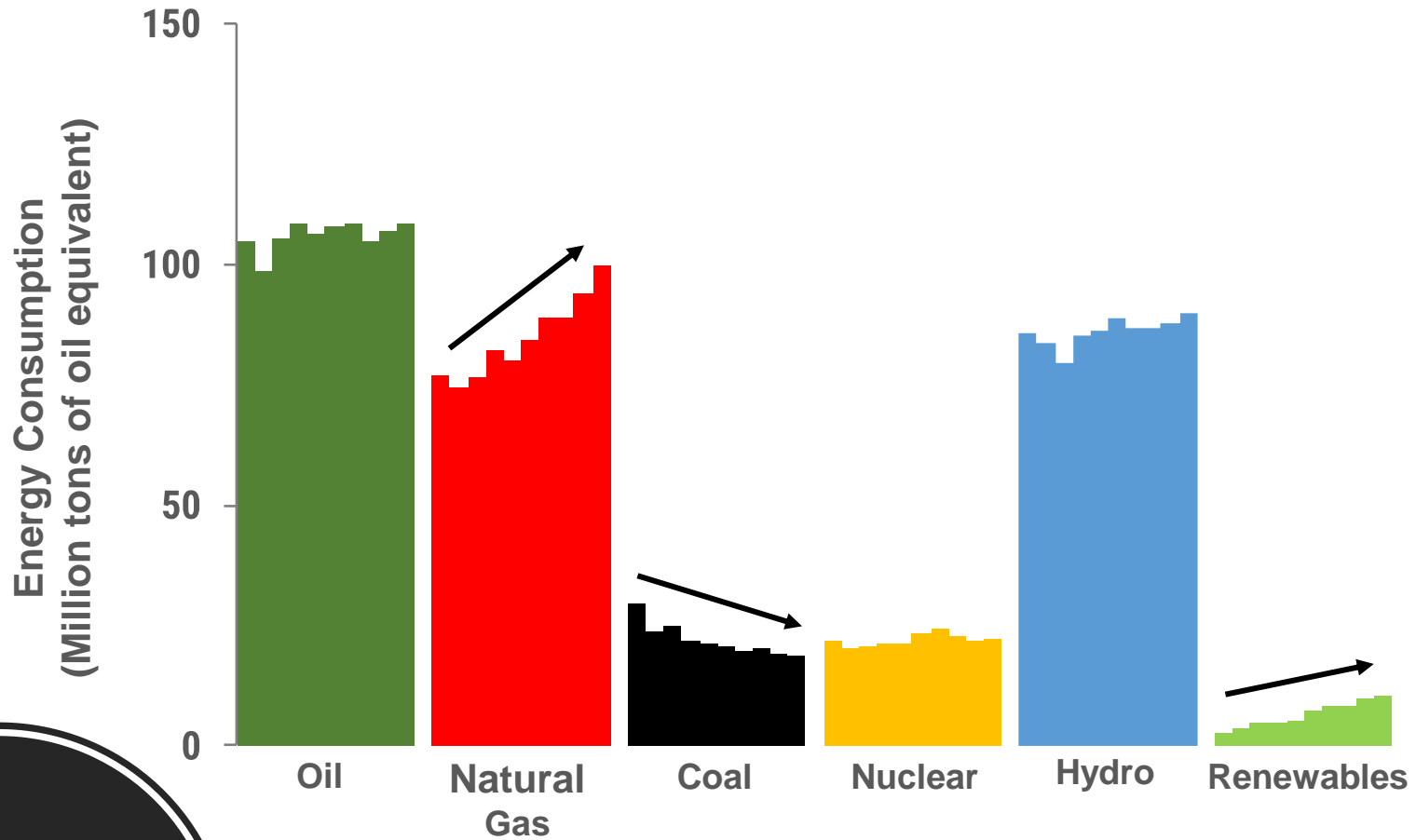
Change in Annual Emissions (2008-2017)



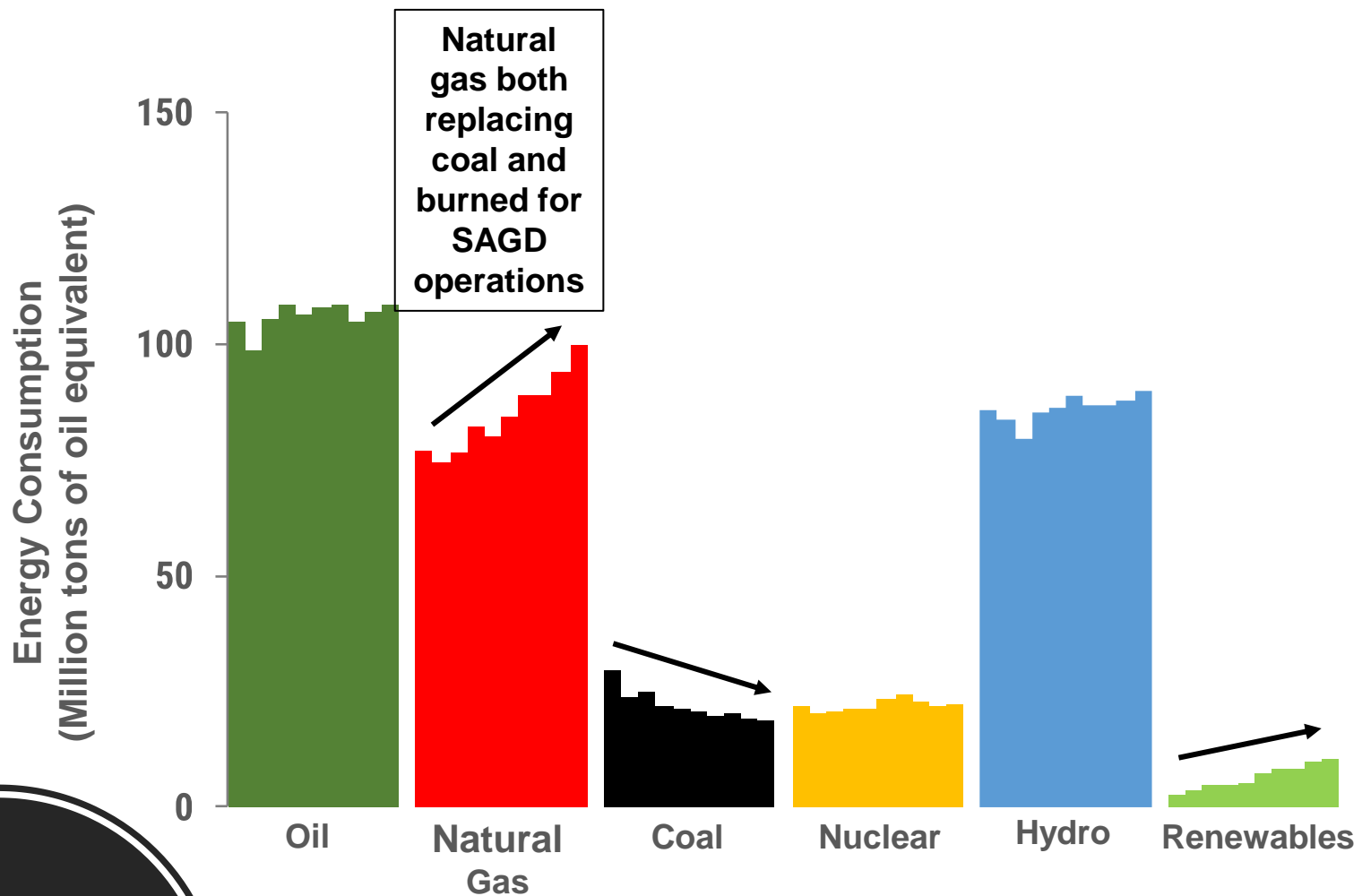


**Energy Profile:
Canada
(2008-2017)**

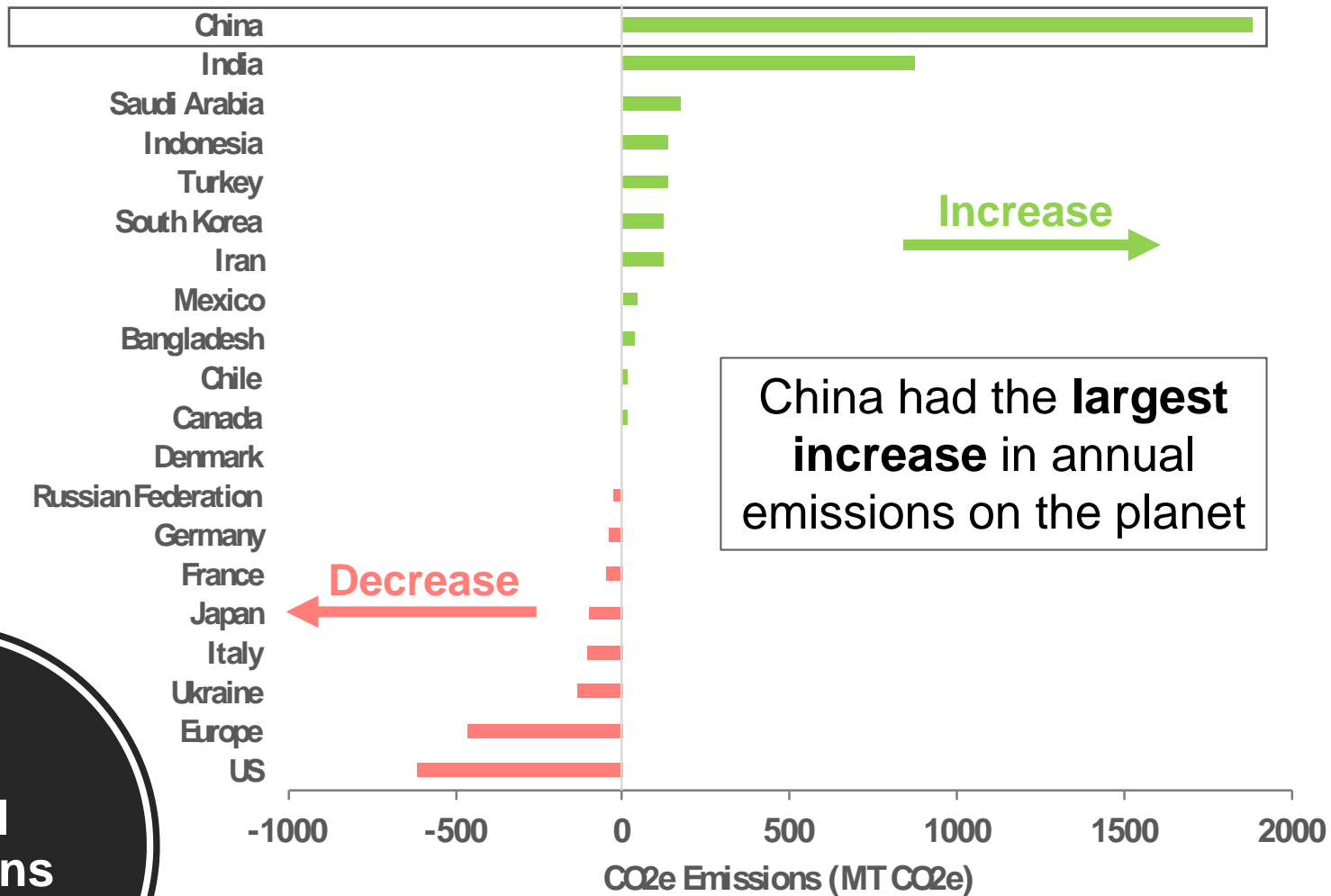
**Energy
Profile:
Canada
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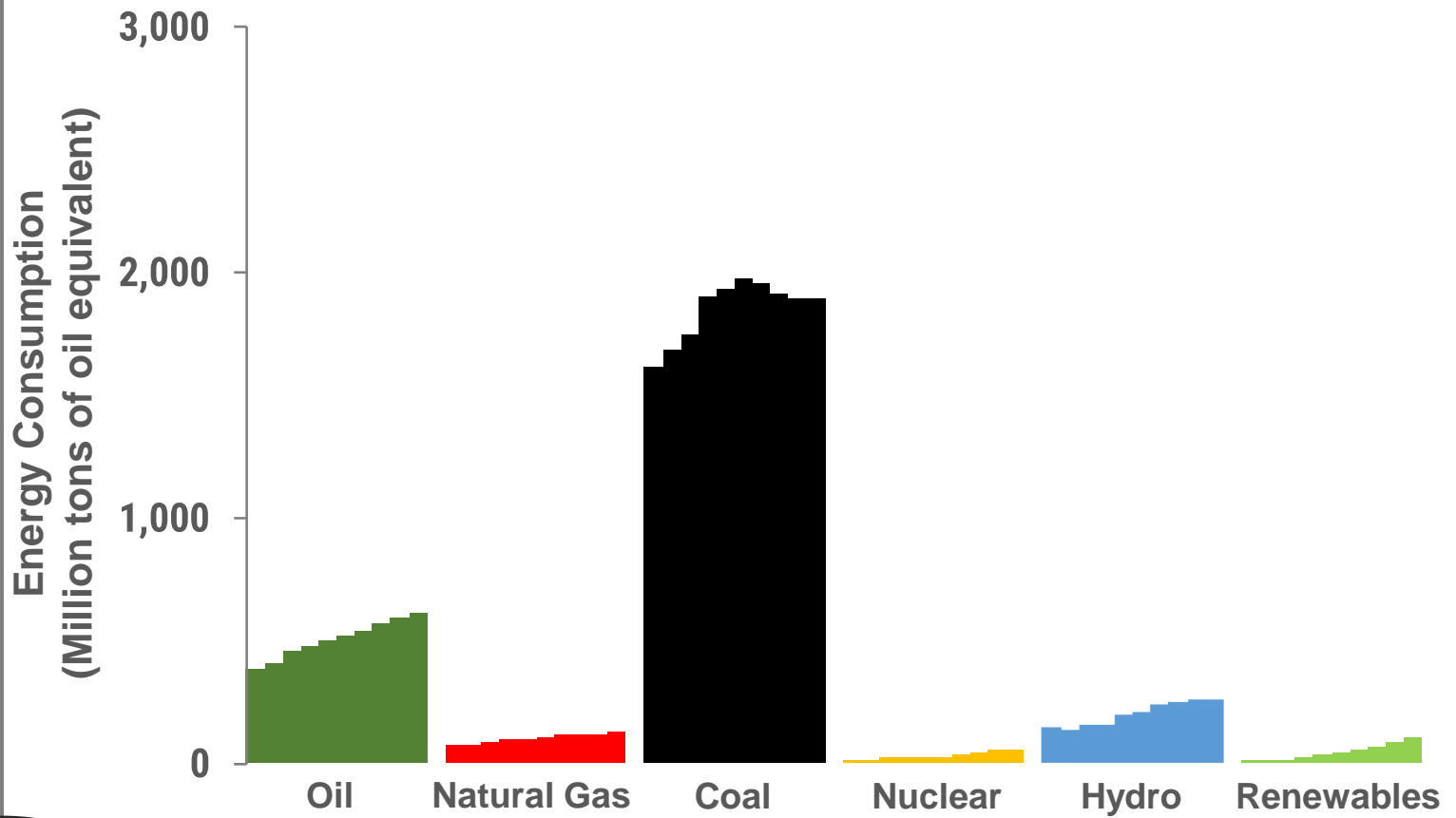


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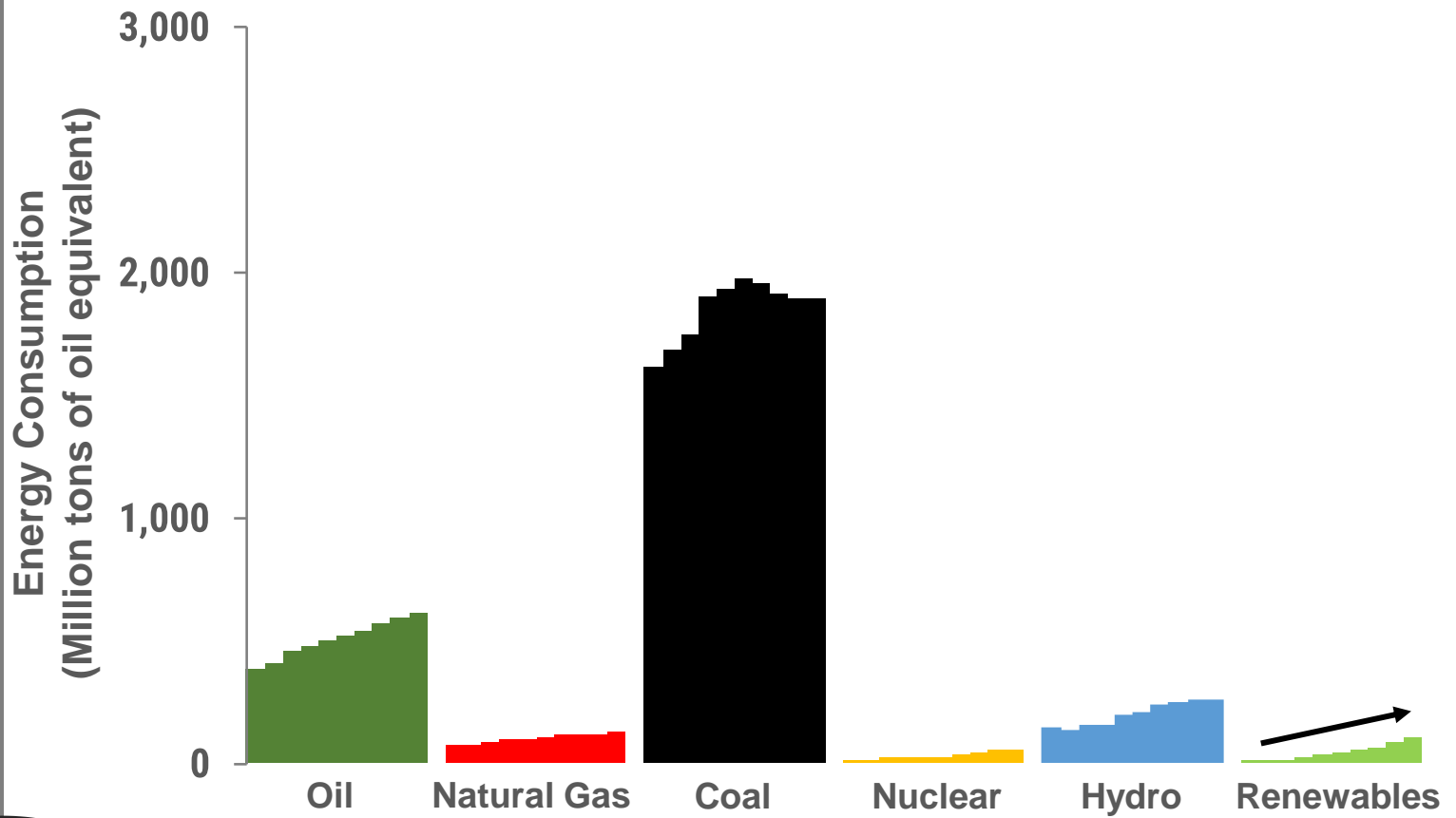


Change in Annual Emissions (2008-2017)

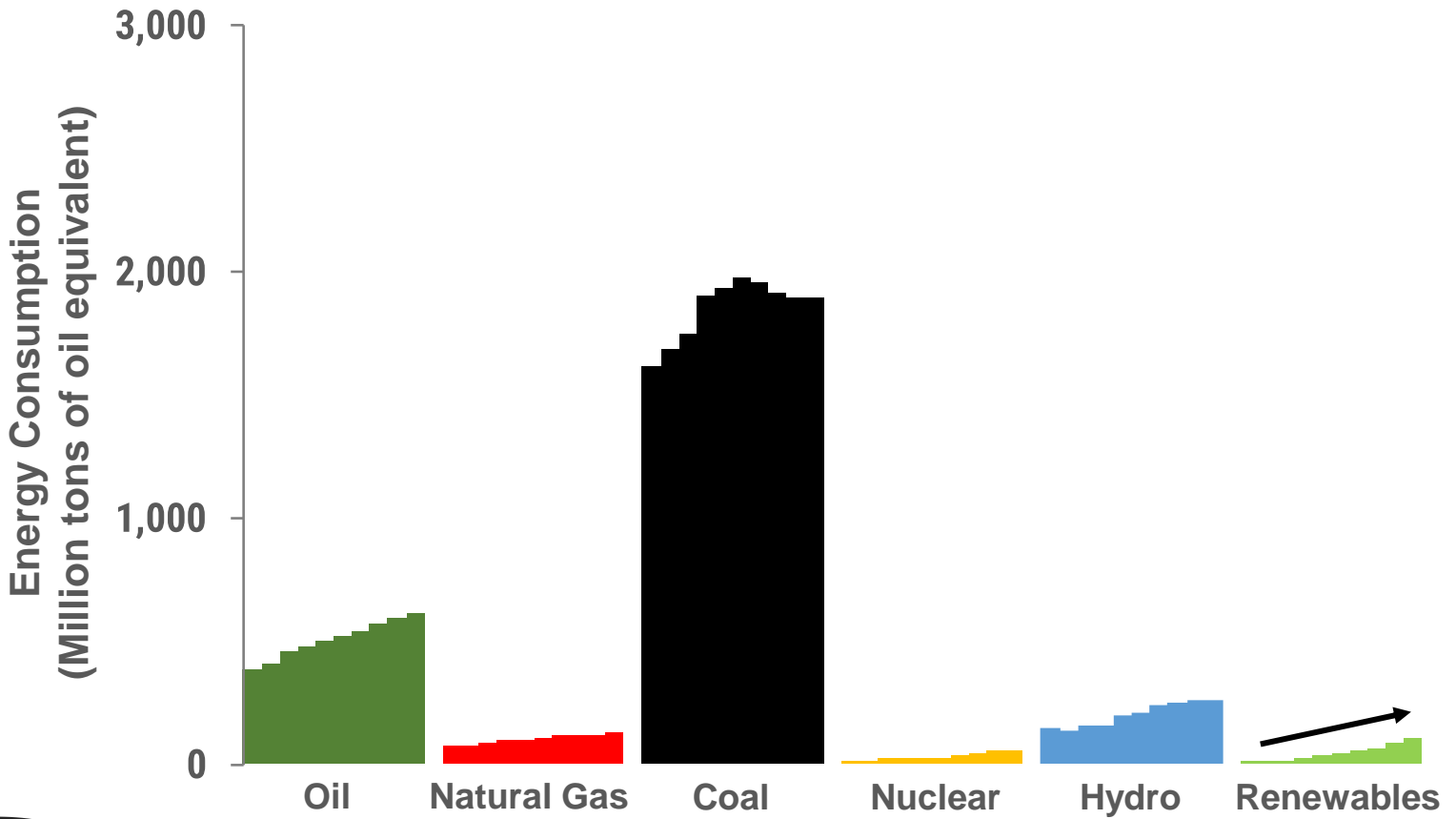




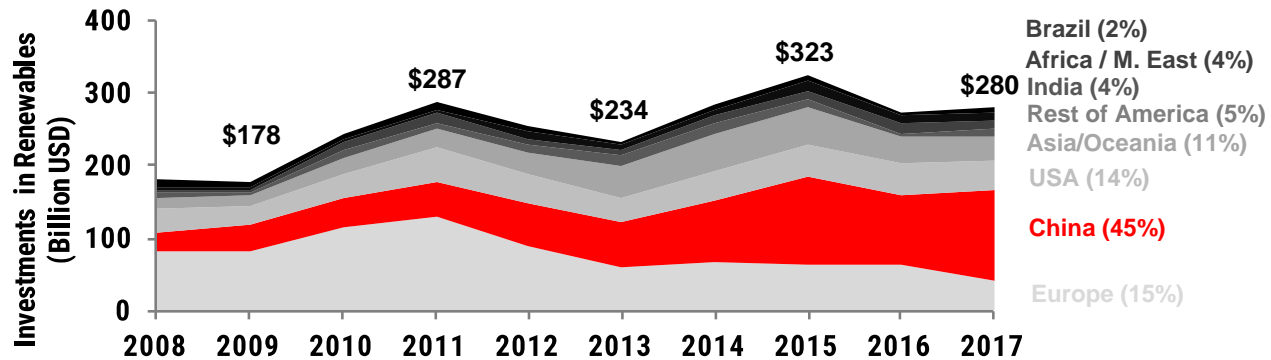
**Energy
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China
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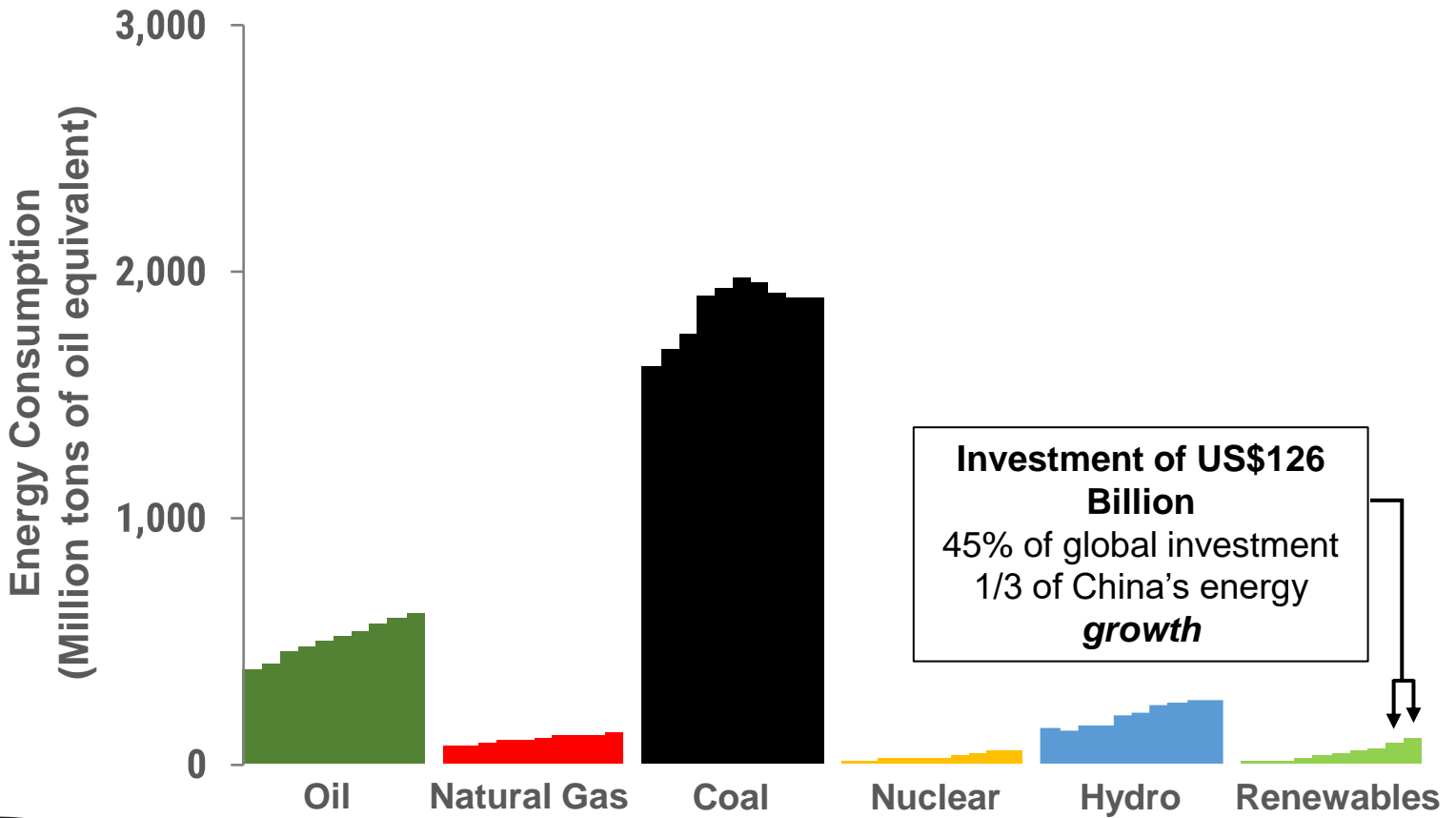
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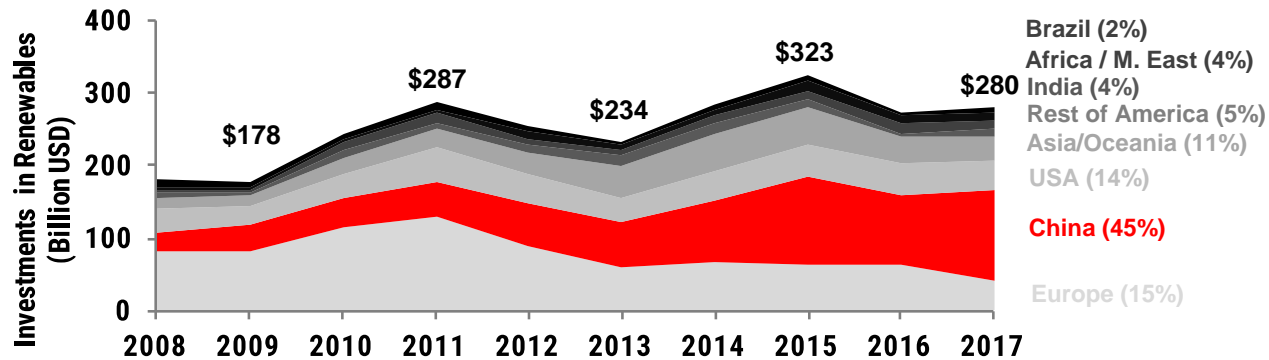
**Energy Profile:
China
(2008-2017)**



Source: BP Statistical Review of World Energy, 2018; REN21 Renewables 2018: Global Status Report

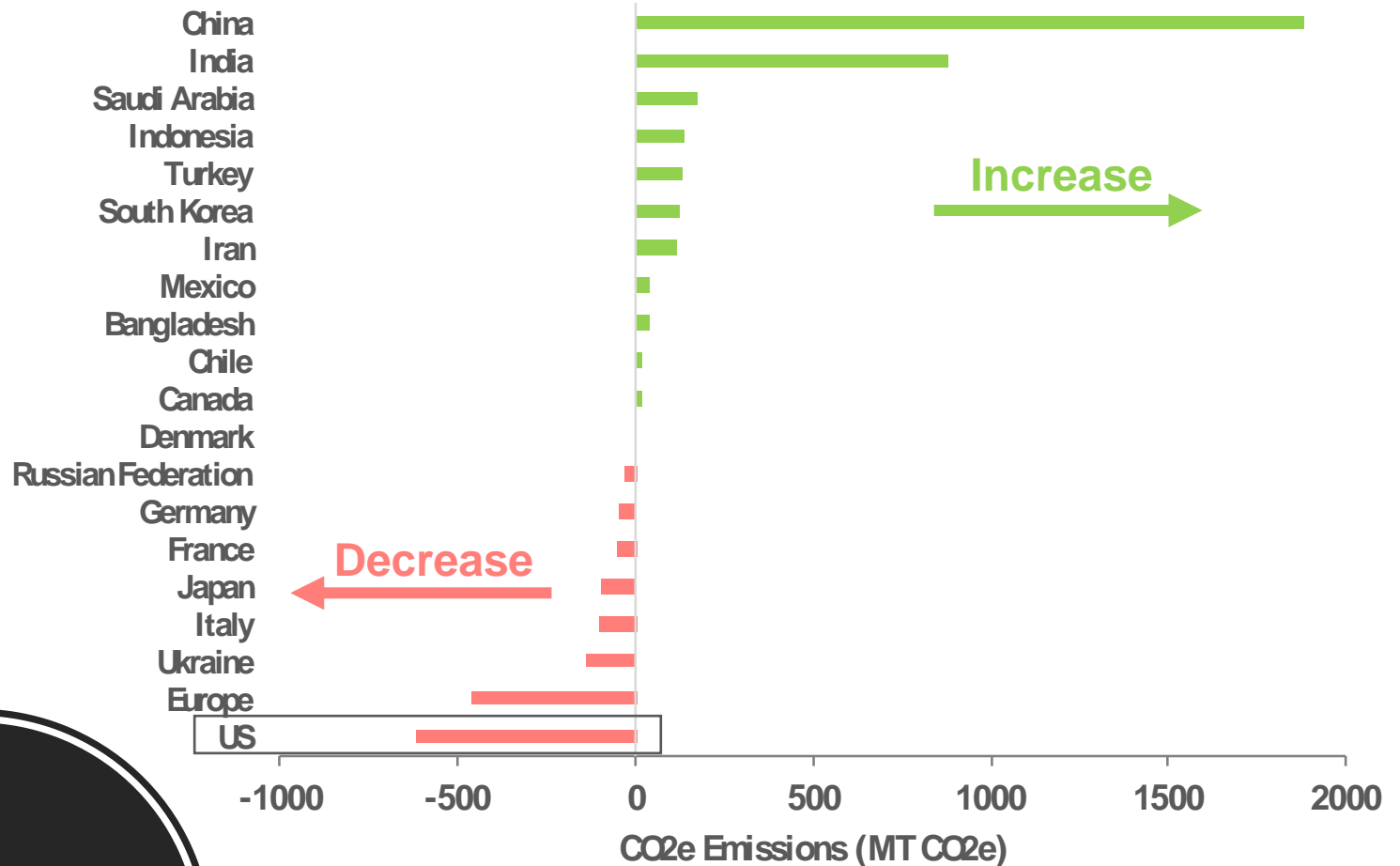


Energy Profile: China (2008-2017)



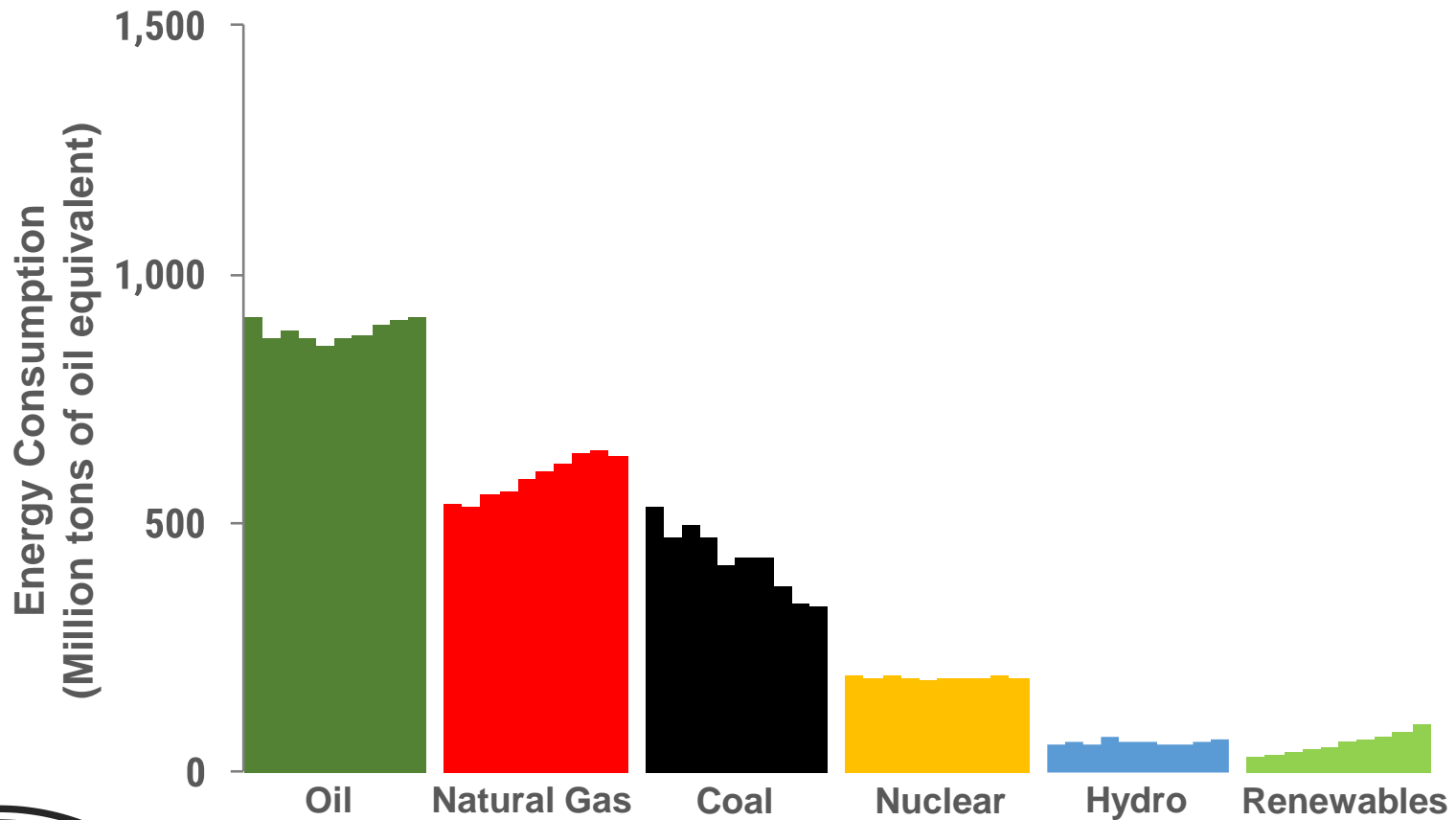
Source: BP Statistical Review of World Energy, 2018; REN21 Renewables 2018: Global Status Report

Change in Annual Emissions (2008-2017)

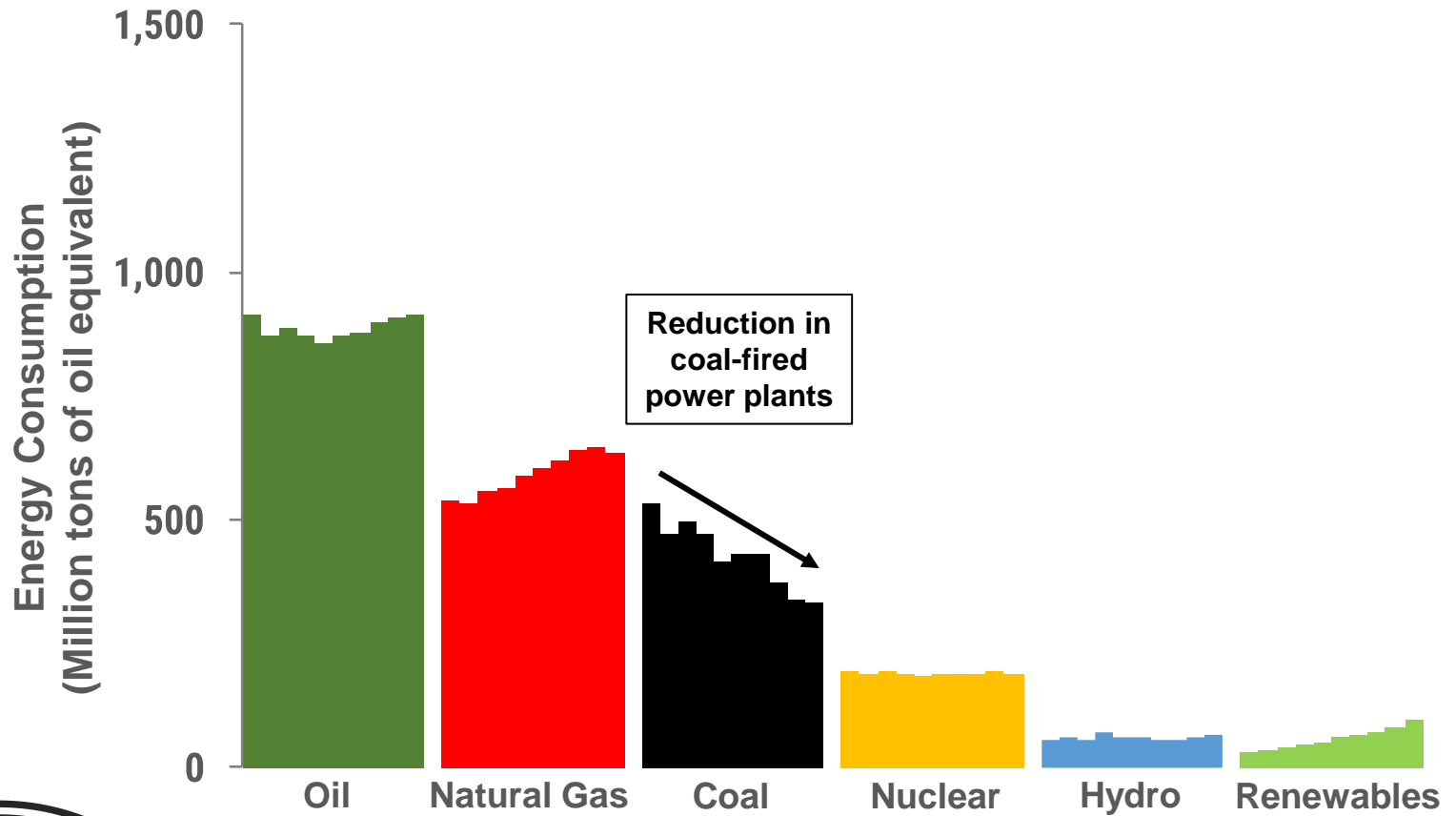


**Global
Emissions**

The United States had the **largest decrease** in annual emissions on the planet

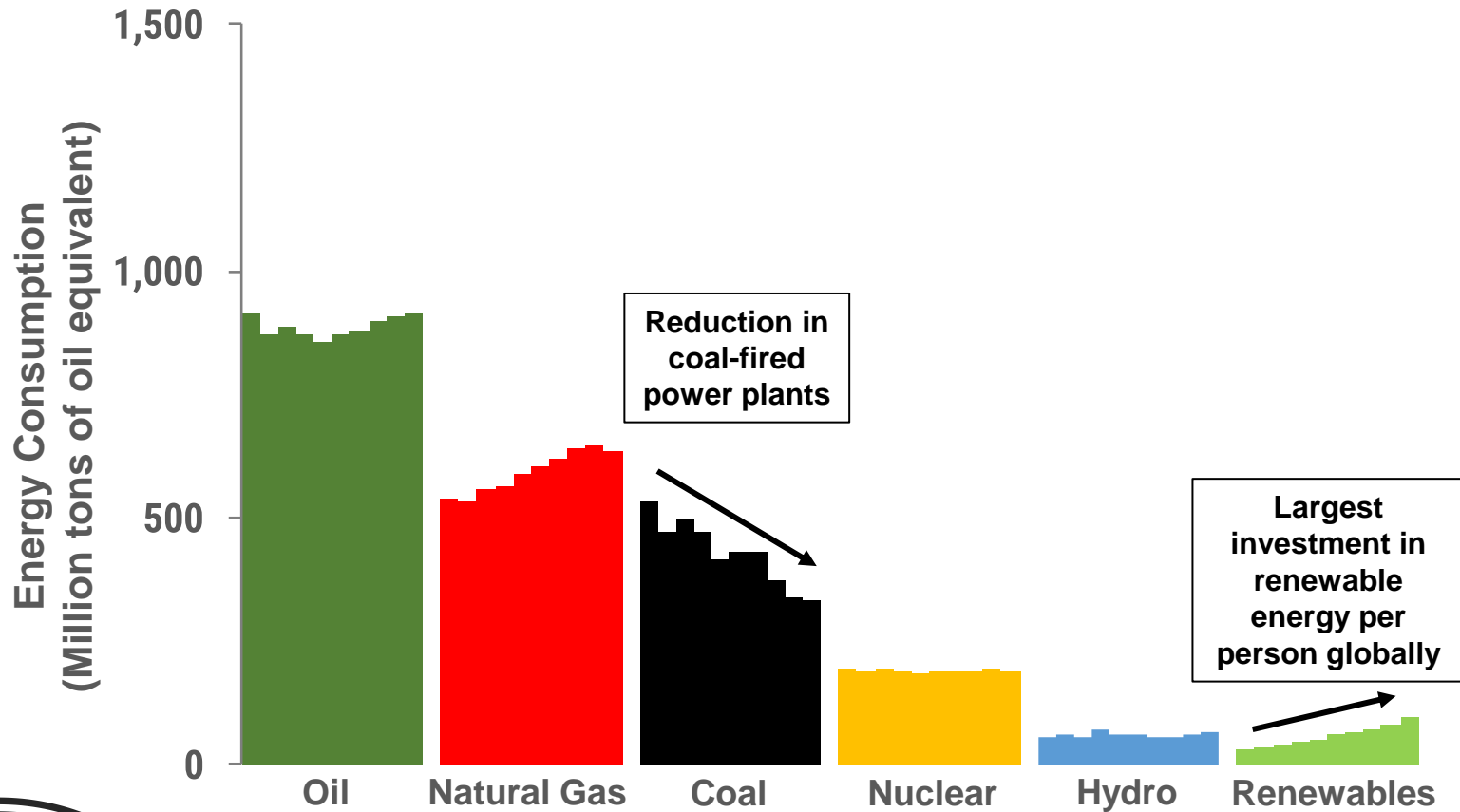


**Energy
Profile:
USA
(2008-2017)**

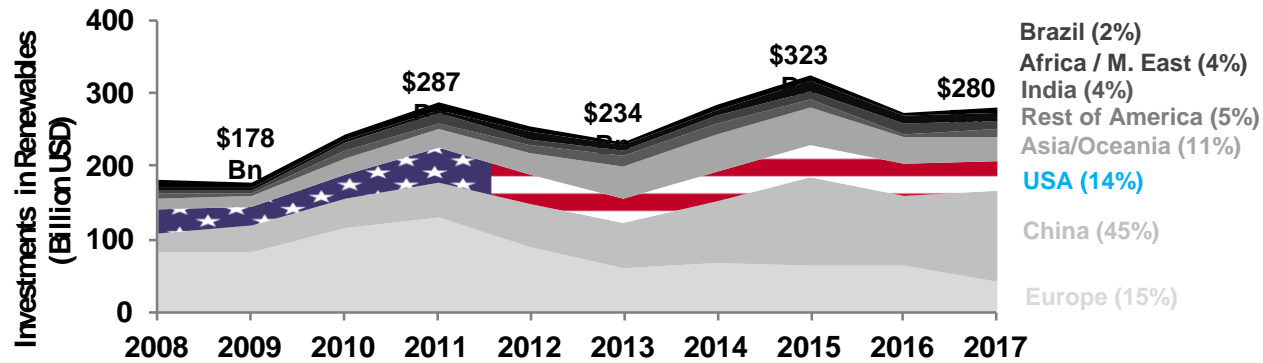


Reduction in coal-fired power plants

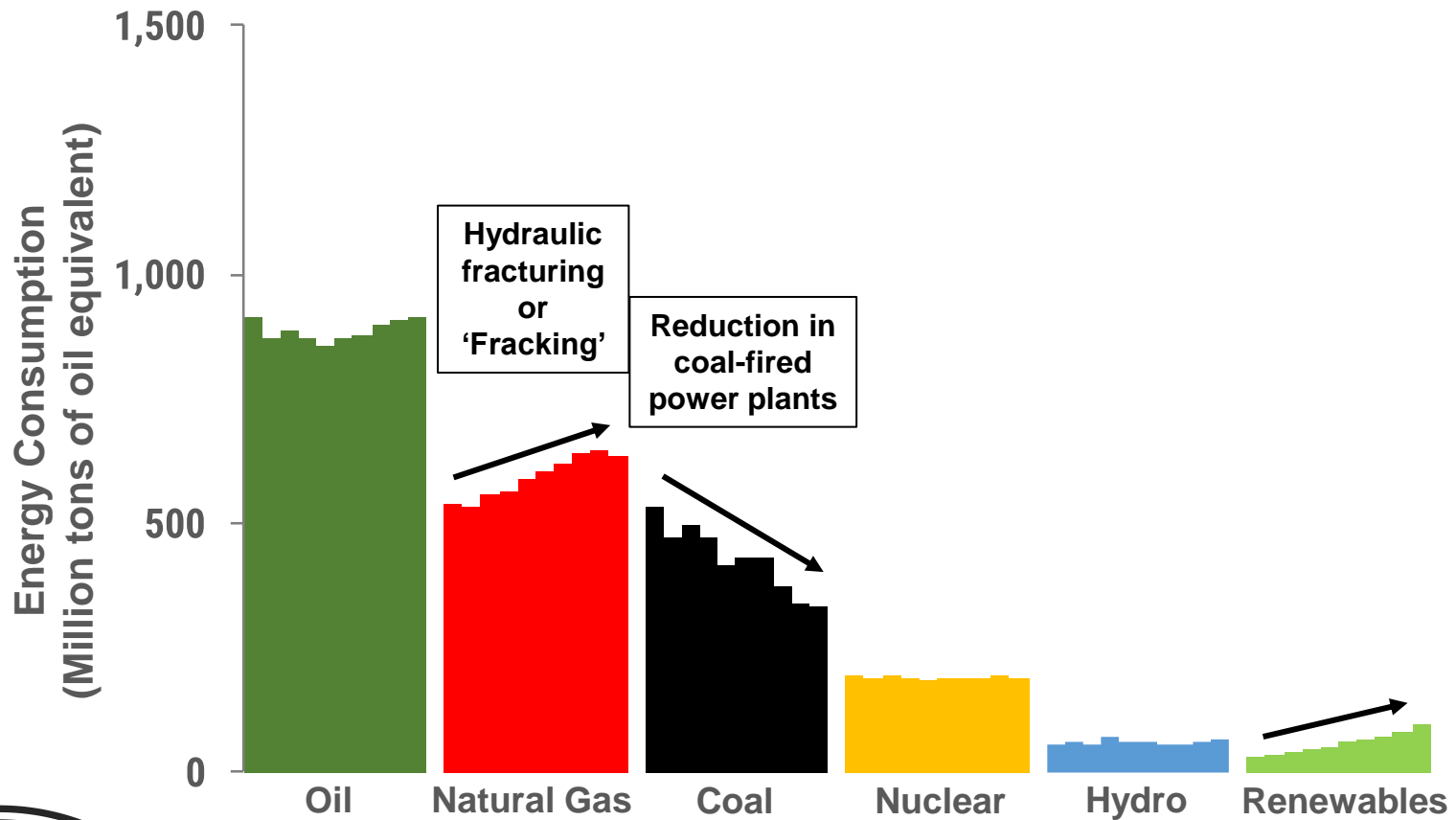
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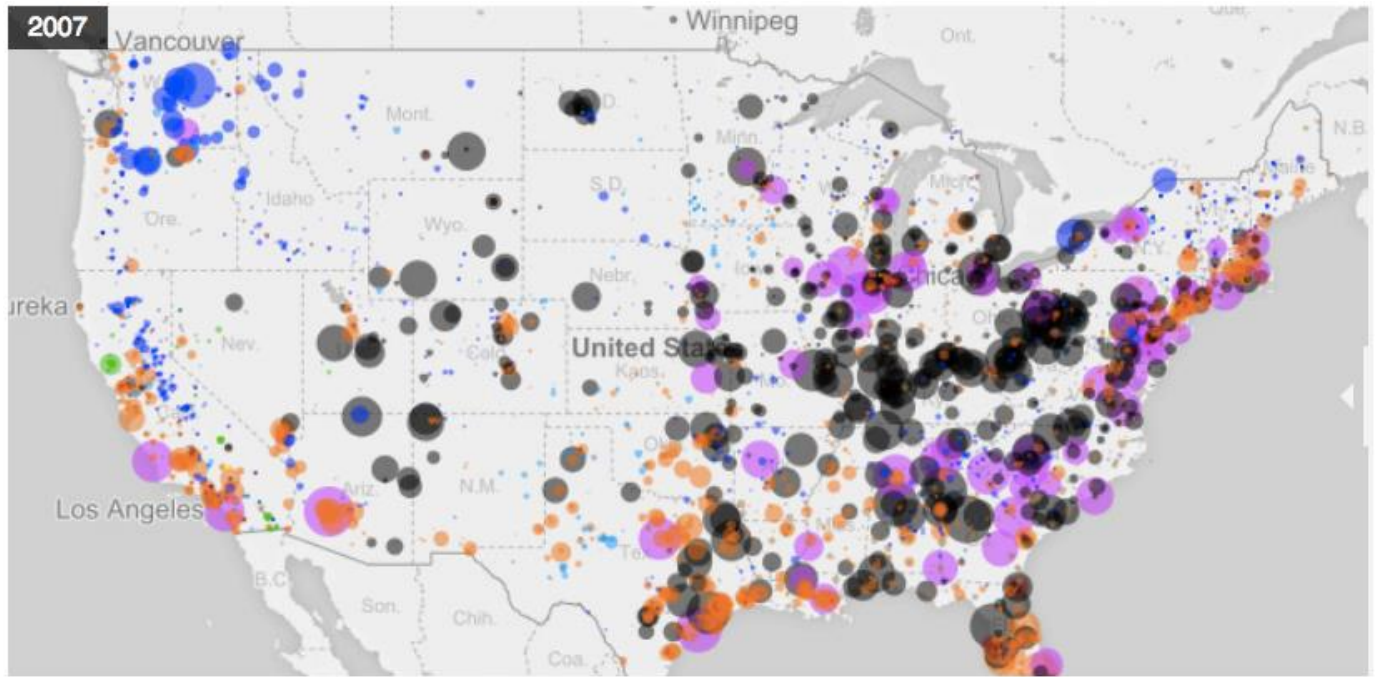
Energy Profile: USA (2008-2017)



Source: BP Statistical Review of World Energy, 2018; REN21 Renewables 2018: Global Status Report



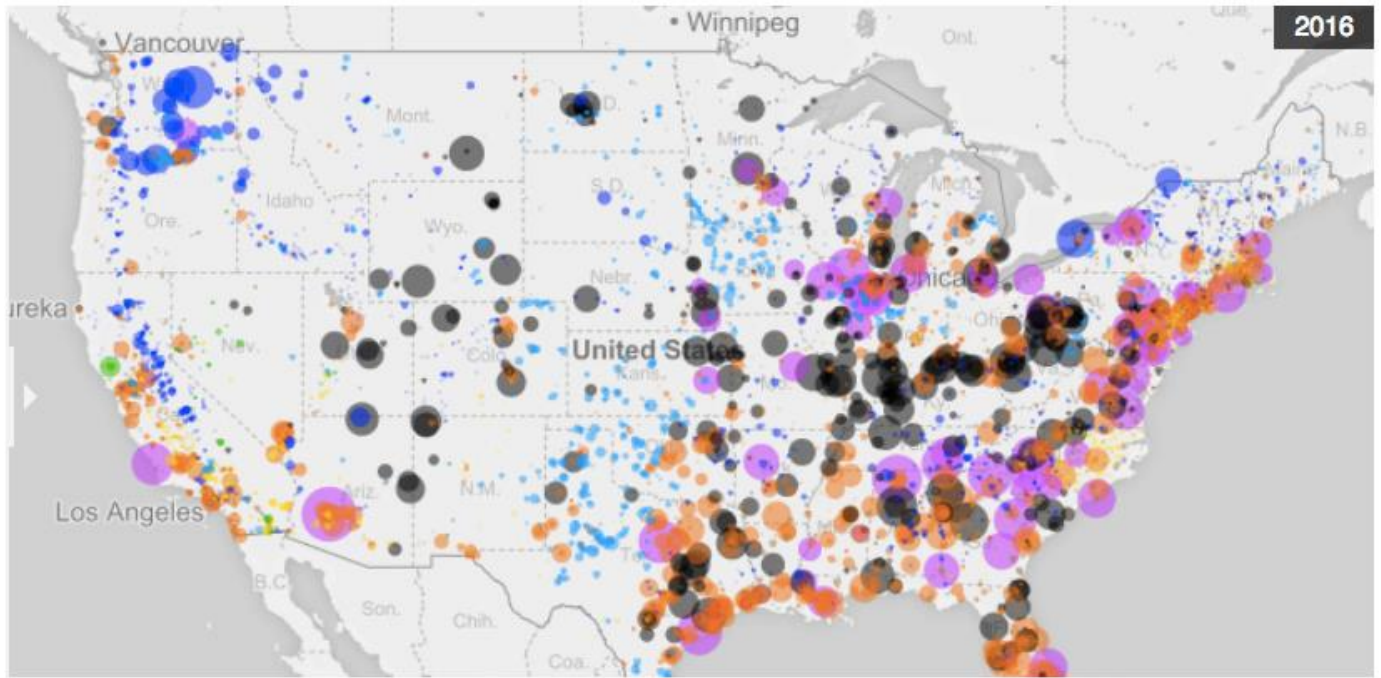
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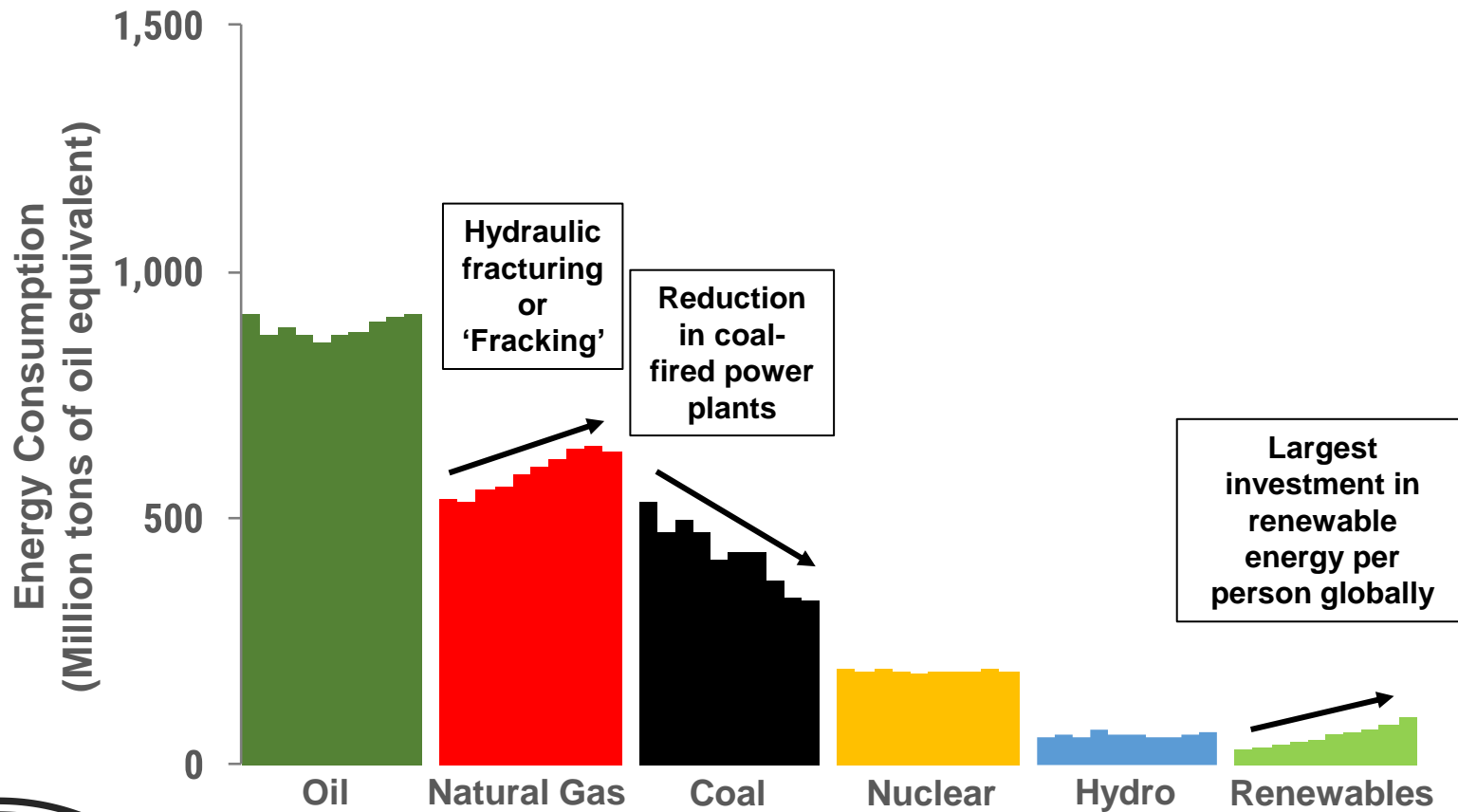
US Power Generation: 2007



US Power Generation: 2016



- Coal
- Gas
- Oil
- Biomass
- Nuclear
- Hydro
- Geothermal
- Wind
- Solar
- Other fossil
- Other



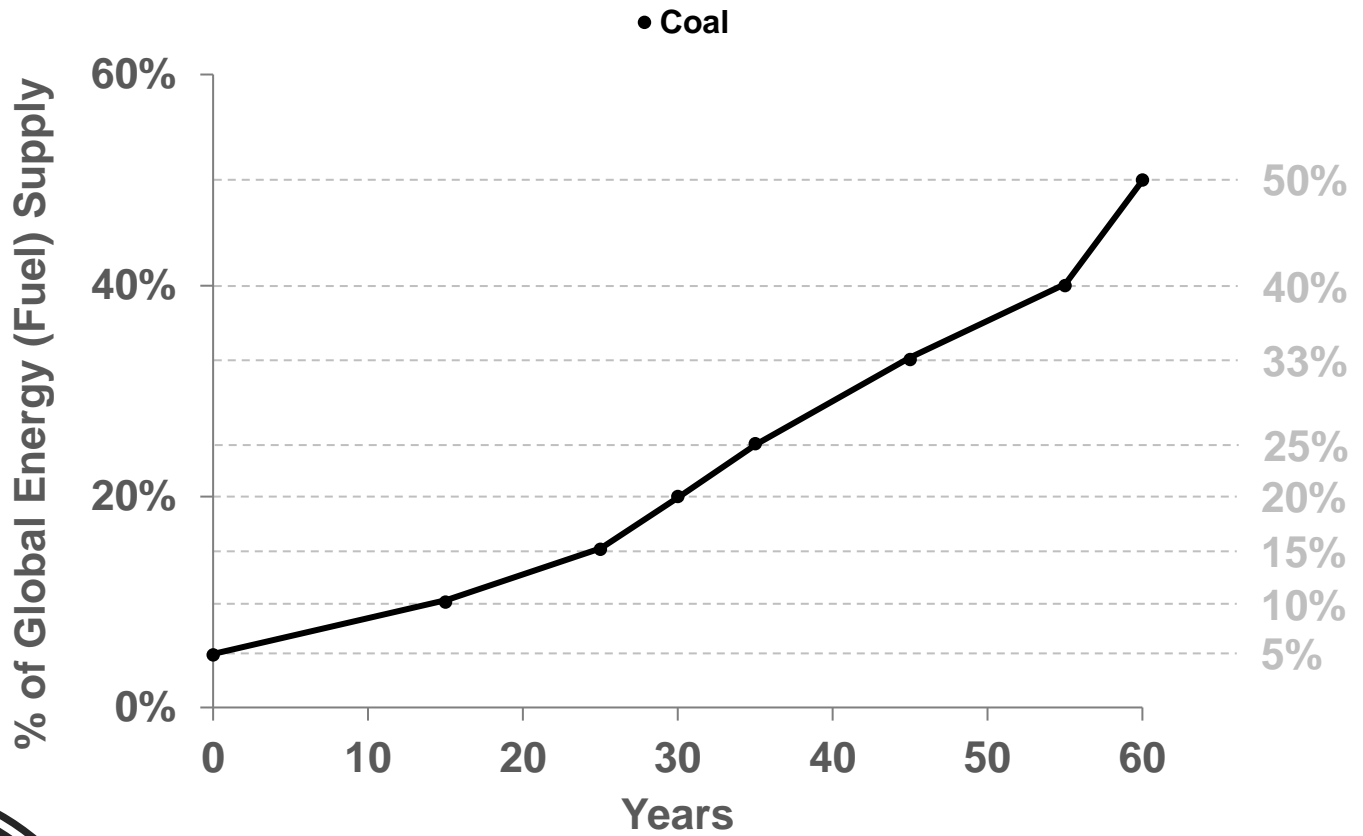
**Energy Profile:
USA
(2008-2017)**

The largest reduction of emissions in human history came as a result of both *fracking* and *renewable energy*



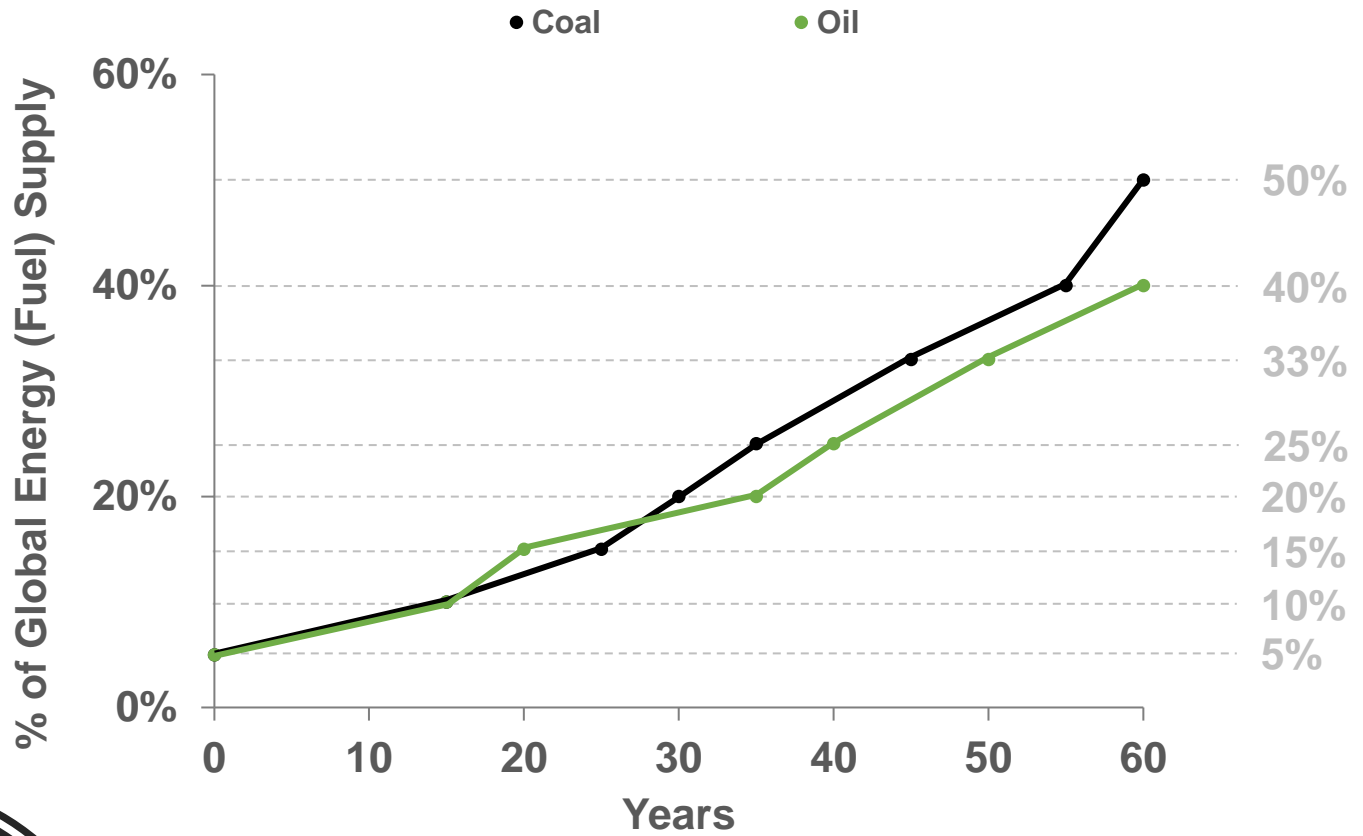
**Energy
Transitions**

Energy Transitions



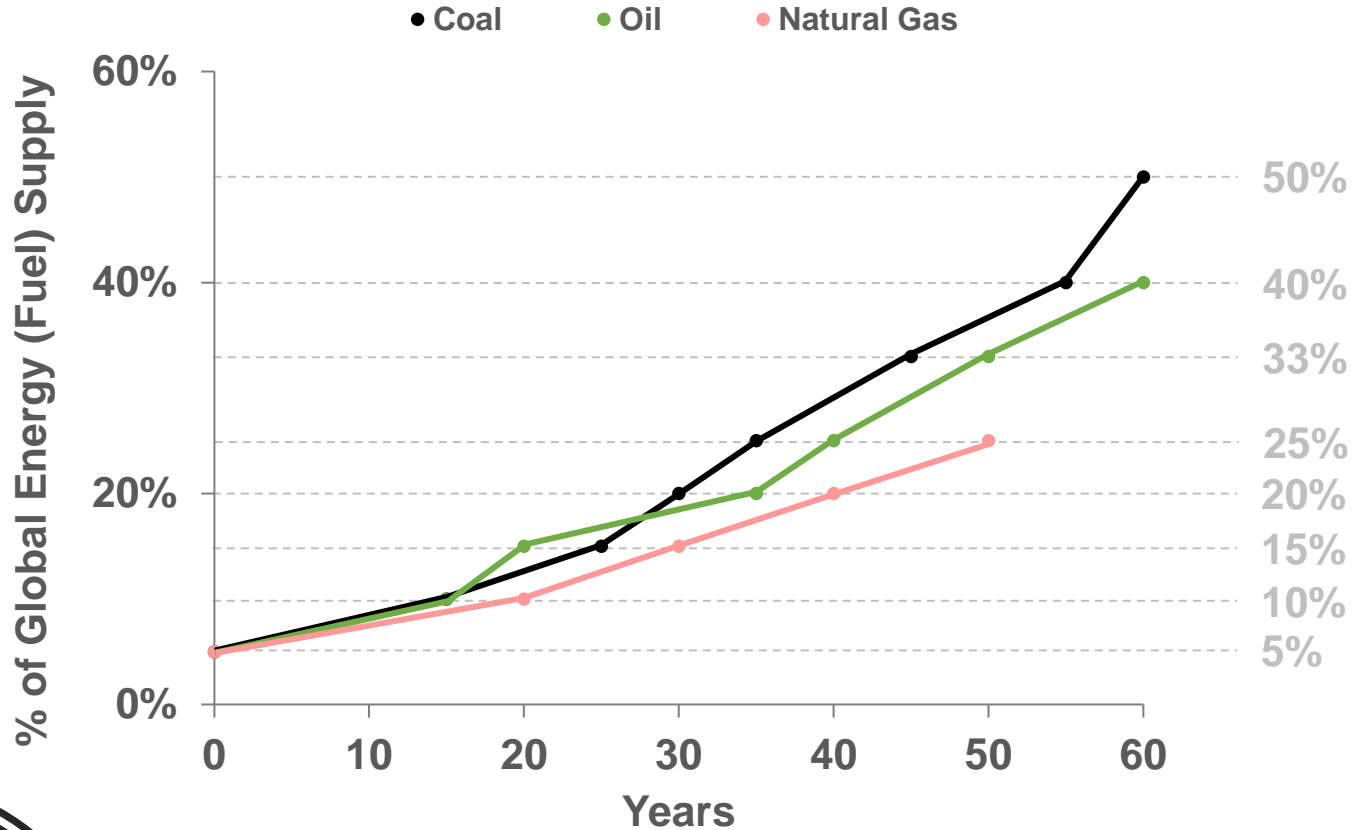
*It took coal **60 years** to replace wood as the **top global supplier of energy***

Energy Transitions



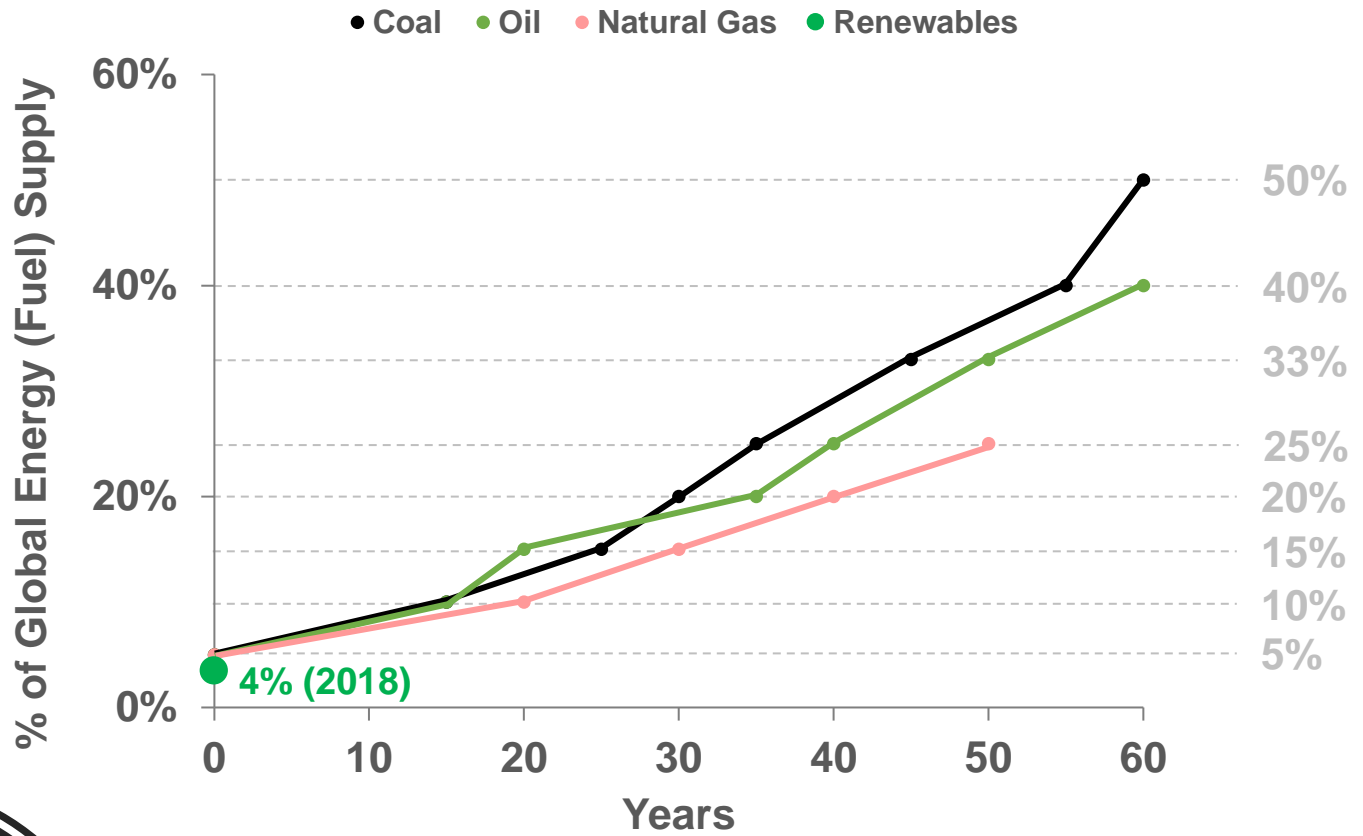
*It took oil **60 years** to reach **40%** of global energy.
It will **never reach >50%**.*

Energy Transitions



*Natural gas, has grown more slowly than coal or oil.
It's benefits are environmental but is more challenging to transport globally.*

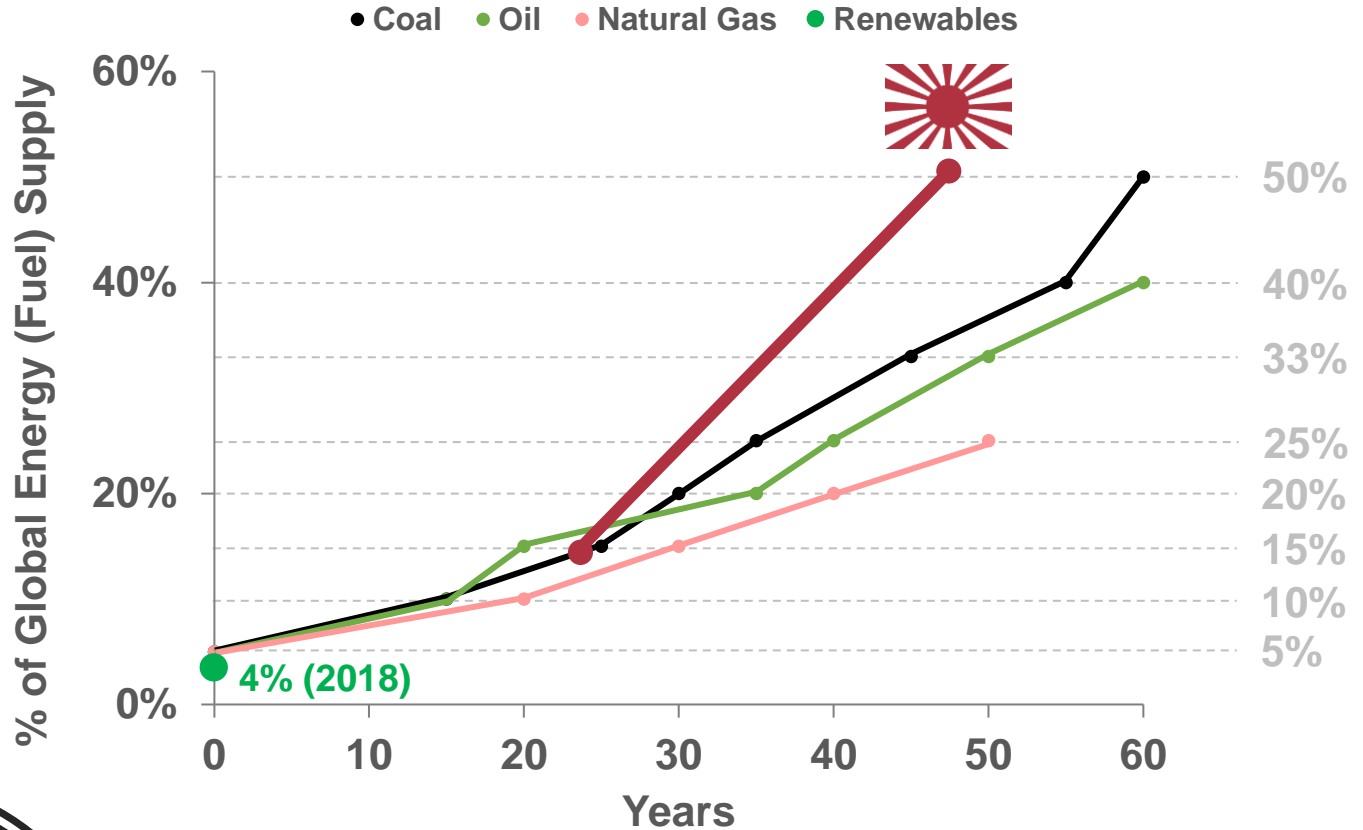
Energy Transitions



Renewables current generate 4% of the global energy supply

Source: Energy Transitions, Vaclav Smil; BP Statistical Review of World Energy, 2019

Energy Transitions



Japan during the Meiji Restoration is considered the fastest energy transition in modern times and it still took at least 3 decades.

Source: Energy Transitions, Vaclav Smil; BP Statistical Review of World Energy, 2019

1. *Energy and sustainability are incredibly complicated*



Lessons

- 1. Energy and sustainability are incredibly complicated***
- 2. Both subjects are regularly oversimplified***



Lessons

- 1. Energy and sustainability are incredibly complicated***
- 2. Both subjects are regularly oversimplified***
- 3. Energy transitions take decades, not years***



Lessons

- 1. *Energy and sustainability are incredibly complicated***
- 2. *Both subjects are regularly oversimplified***
- 3. *Energy transitions take decades, not years***
- 4. *We write about these types of stories regularly in our hilarious, gif-filled weekly newsletter***

Carbon Emissions

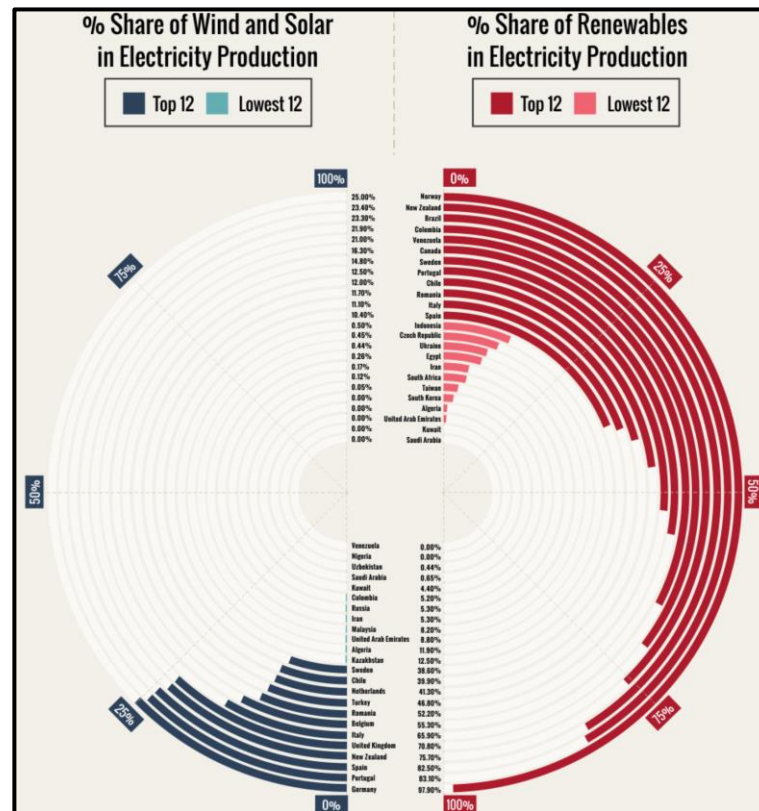
Darth Vader in gas form



Lessons

1. ***Energy and sustainability are incredibly complicated***
2. ***Both subjects are regularly oversimplified***
3. ***Energy transitions take decades, not years***
4. ***We write about these types of stories regularly in our hilarious, gif-filled weekly newsletter***
5. ***And semi-weekly infographics which are really amazing***

Lessons





Thank you
Sign up for our newsletter
www.energyminute.ca