

HONR 229L: Climate Change: Science, Economics, and Governance

Discussion #23: Action Day #1

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Class Web Site: <http://www.atmos.umd.edu/~rjs/class/honr229L>

ELMS Page: <https://myelms.umd.edu/courses/1269254>



<https://unfccc.int/cop25>

19 November 2019

HONR 229L: Climate Change: Science, Economics, and Governance

Action Day 1

12:30 to 12:45 Your Charge

12:45 to 1:00 Countries meet under direction of President: discuss your approach to the international negotiation that will involve a flow of money and technology, with no international price on carbon, since the class has decided to not pursue 1.5°C warming

**1:00 to 1:15 Negotiation Session 1 in ATL 3426 (computer lab)
Negotiators: flow of money and technology**

During negotiation session, countries should focus on their:

a) energy plan; b) econ. develop. plan; c) popul plan (if appropriate)

**1:15 to 1:30 Negotiators back to countries:
a) verbal presentation of outcome of negotiation
b) initial thoughts on GHG trajectory
c) thoughts on moving forward**

1:30 to 1:40 Verbal from each president: 3 minutes each, stating GHG trajectory, and how their group feels about the negotiation

1:40 to 1:45 Charge for Thursday

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Energy and Economic Plan Organization within each team:

President: Organizes group and must sign three documents, but only after Senate approval:

- 1) International agreement for exchange of technology and finance
- 2) Region's energy plan (written by Energy Minister)
- 3) Region's economic development plan (written by Economic Minister)

3 person Senate: Votes on international agreement, energy plan, & economic plan:

Each needs unanimous approval of the Senate, except the President can override a 2 to 1 vote and grant his or her "approval" ... only once!

3 pieces of legislation: President gets one override

Energy Minister: **One to two page document** outlining how the transition to renewables will be implemented within the region

Economic Minister: **One to two page document** overview of how the transition to renewables and the price on carbon will impact the economy, including jobs

Negotiator: Communicates with other groups and formulates international agreement

One to two page document detailing how 3 regions will cooperate to achieve their respective energy & economic plans: could be cap & trade, carbon tax with funds flowing internationally, technology and/or financial transfer, etc

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Energy and Economic Plan Evaluation

Formal presentation on Thurs, 5 Dec before panel of 3 judges of:

- a) International Agreement
- b) Energy and Economic plans of each group

Judges will be asked to evaluate:

1. **Efficacy of energy and economic plans**
2. **Did group give up too much or too little in the negotiation**

In other words, which nation group *did the best* ?

Note: efficacy means “the ability to produce a desired or intended result”

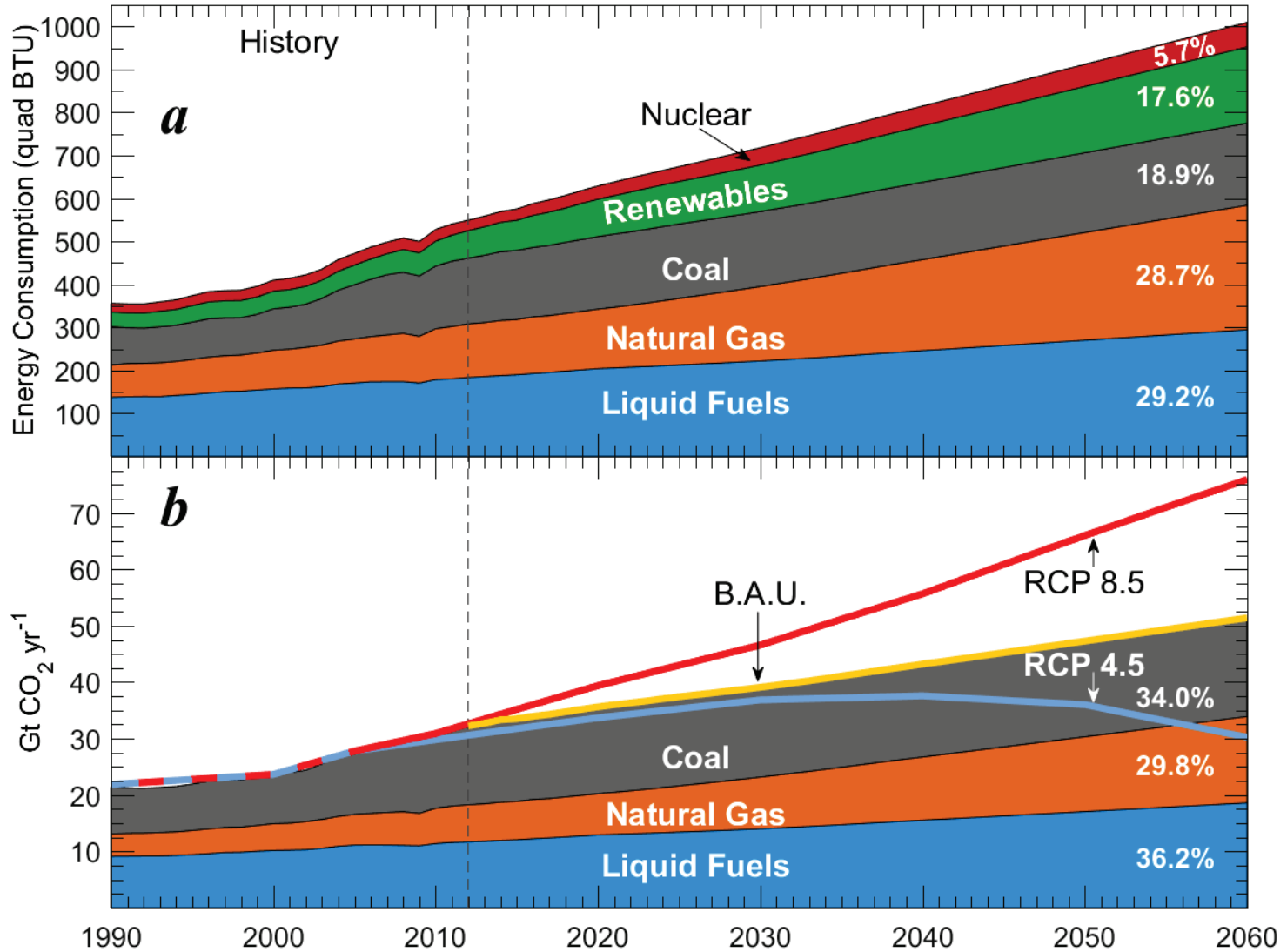
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Awesome Climate Pin Collection (one per person)

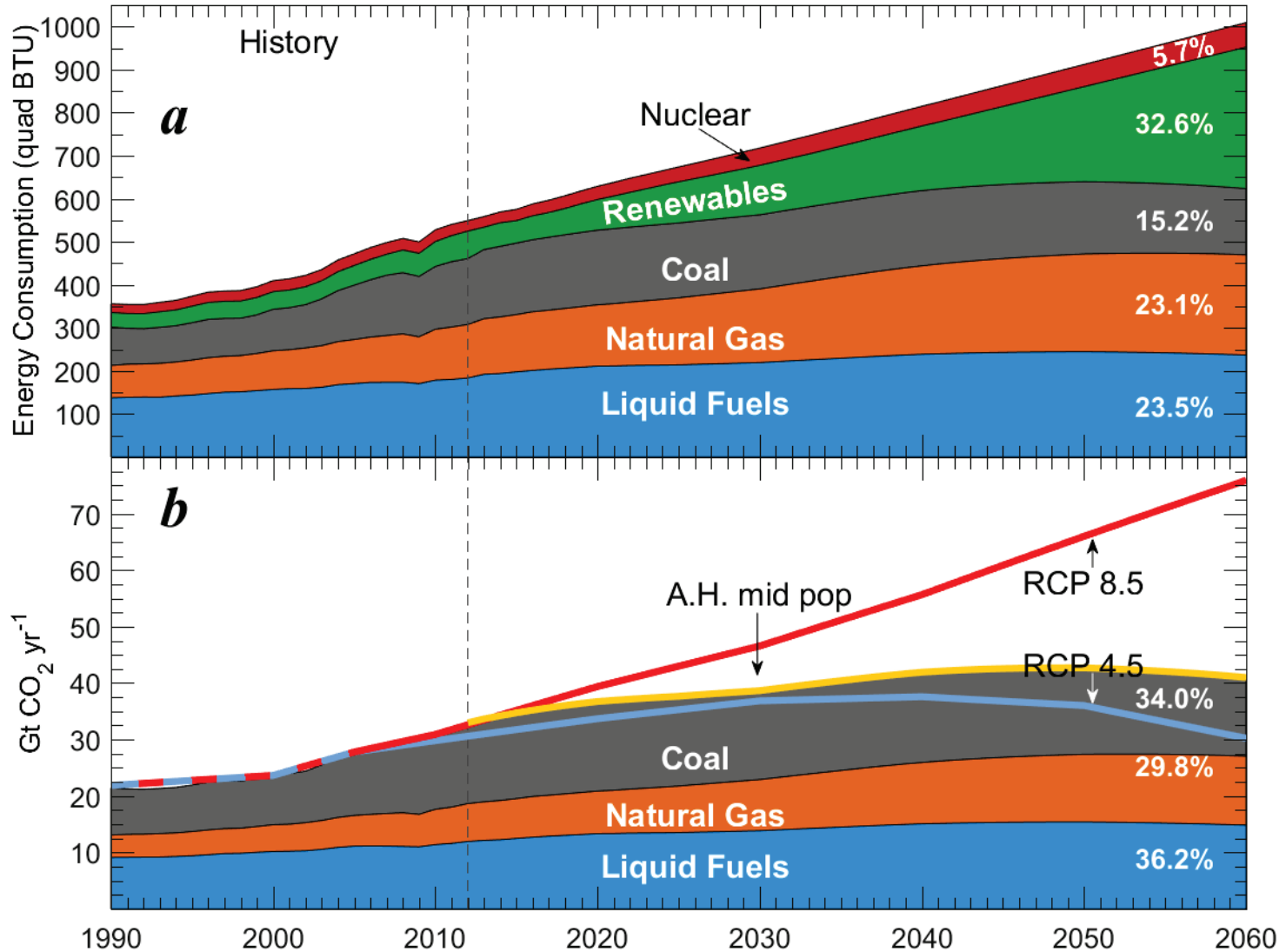


<https://www.teepublic.com>

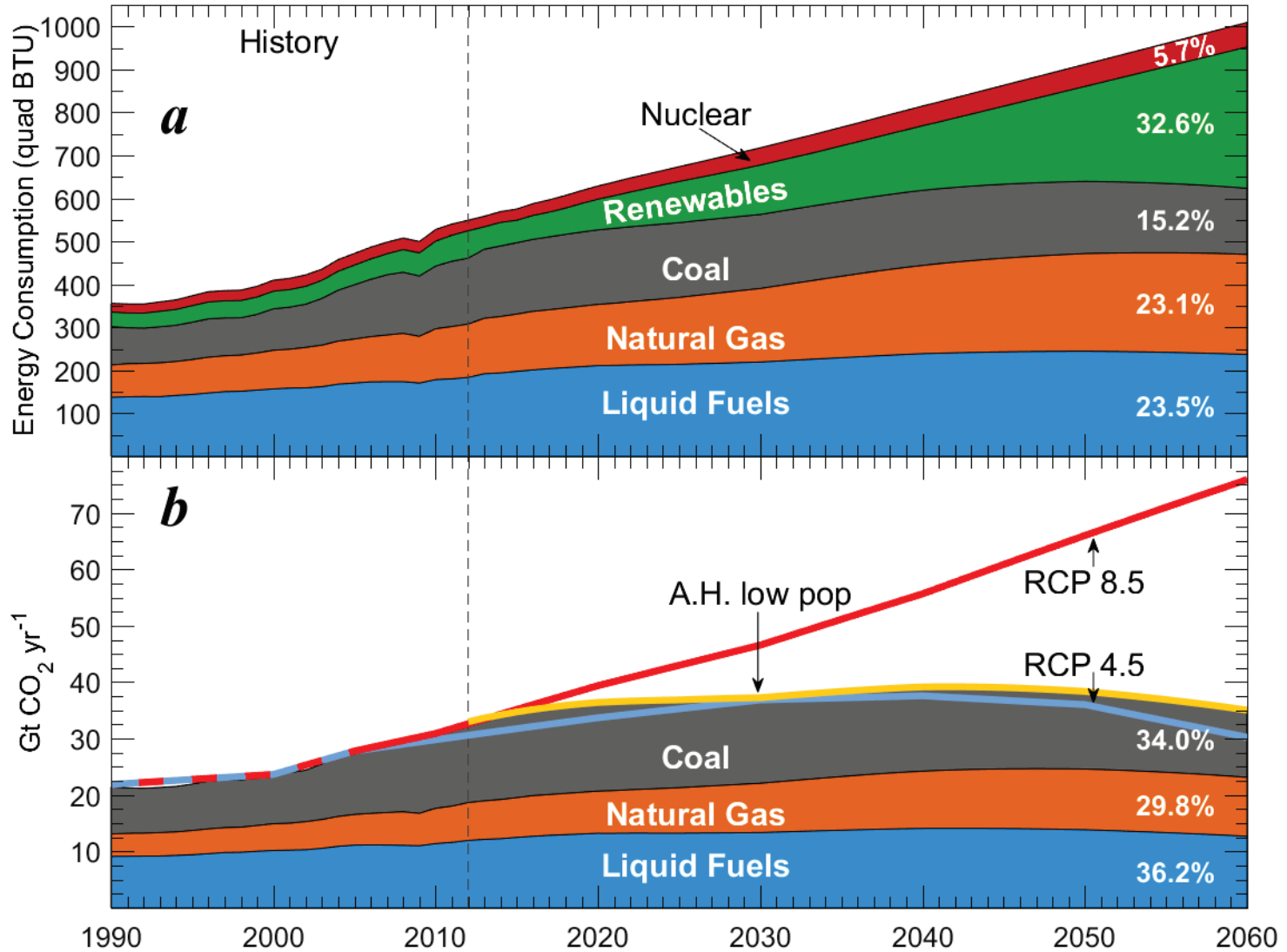
World Energy Consumption and CO₂ Emissions, Business As Usual



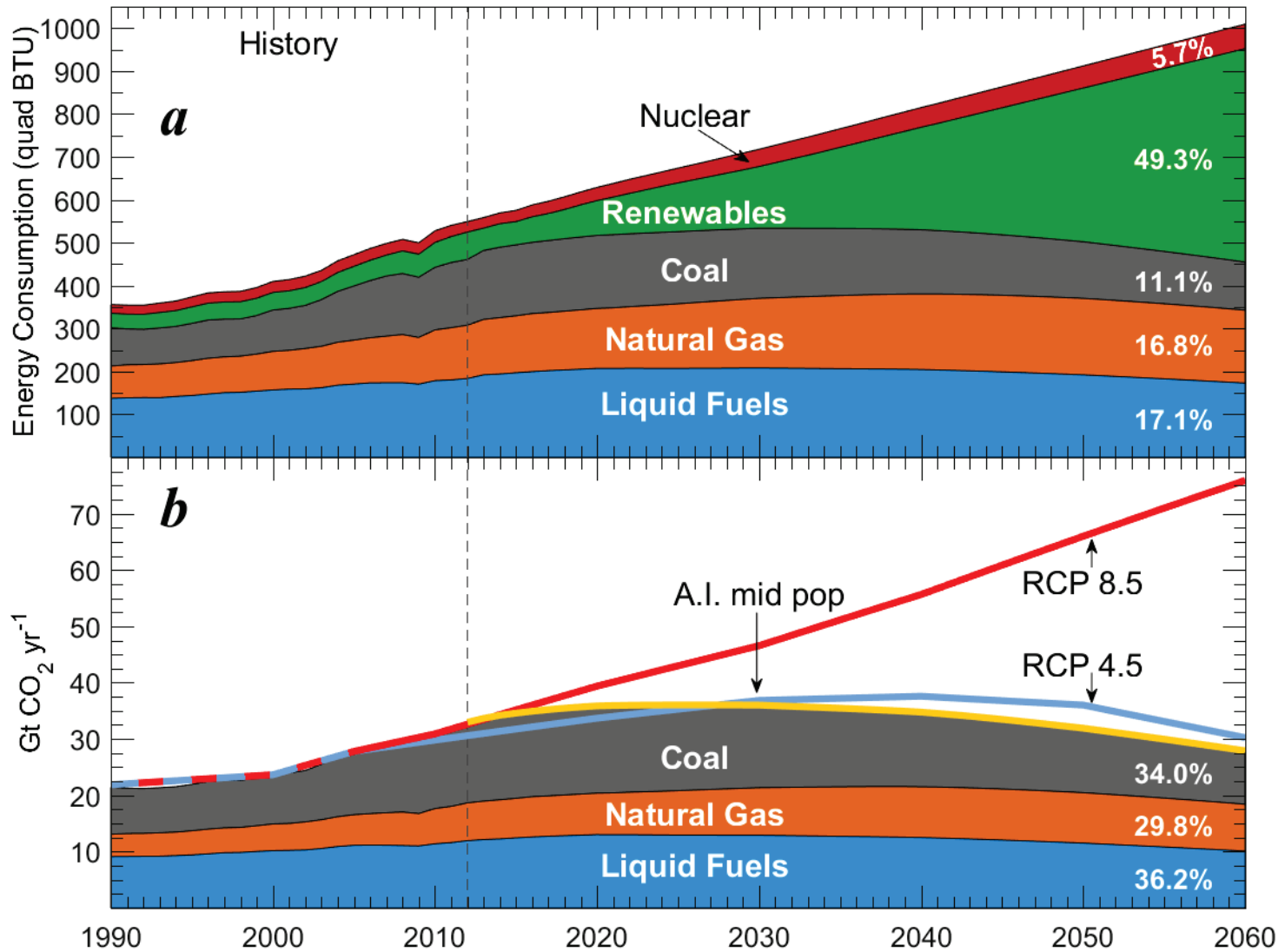
World Energy Consumption and CO₂ Emissions, Attain & Hold Low Population



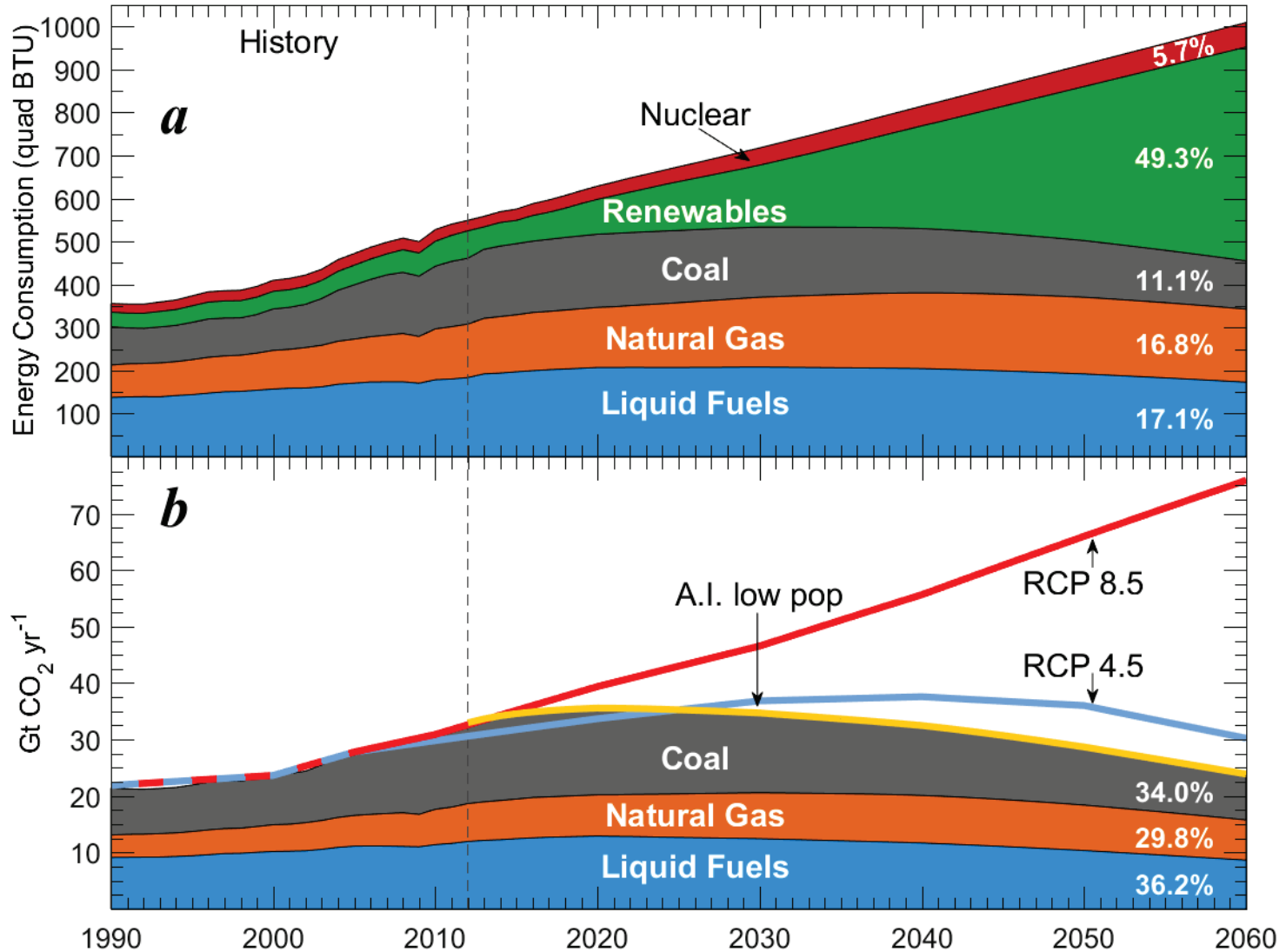
World Energy Consumption and CO₂ Emissions, Attain & Hold Low Population



World Energy Consumption and CO₂ Emissions, Attain & Improve Mid Population



World Energy Consumption and CO₂ Emissions, Attain & Improve Mid Population



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Energy Plan Implementation

China: Room 3425 (conf room):

President: Peter

3 Member Senate: Aaron, Cristy, & Emma

Economic Minister: Sijing

Energy Minister: Thomas

Negotiator: Ammar

Trajectory: BAU

AH (33% by 2060) median pop **Channel the energy & vision of President Xi**

AH (33% by 2060) low pop

AI (50% by 2060) median pop

AI (50% by 2060) low pop



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Energy Plan Implementation

US & Europe: Room 3400 (seminar room)

President: Edison

3 Member Senate: Anne, Ryan, Rhea

Economic Minister: Eric

Energy Minister: Luke

Negotiator: Nyah

Trajectory: BAU

AH (33% by 2060) median pop

AH (33% by 2060) low pop

AI (50% by 2060) median pop

AI (50% by 2060) low pop



Channel the voice of America's Pledge

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Energy Plan Implementation

India & Africa: Room 3408 (here):

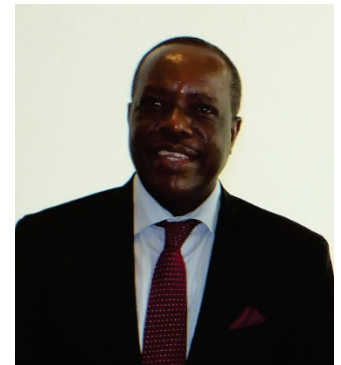
President: Hillary

3 Member Senate: Anna, Abhay, Eliza

Economic Minister: Michelle

Energy Minister: Amanda

Negotiator: Sam



**Channel the courage & wisdom of Dr. Sunita Narain
and Energy Minister Sospeter Muhongo**

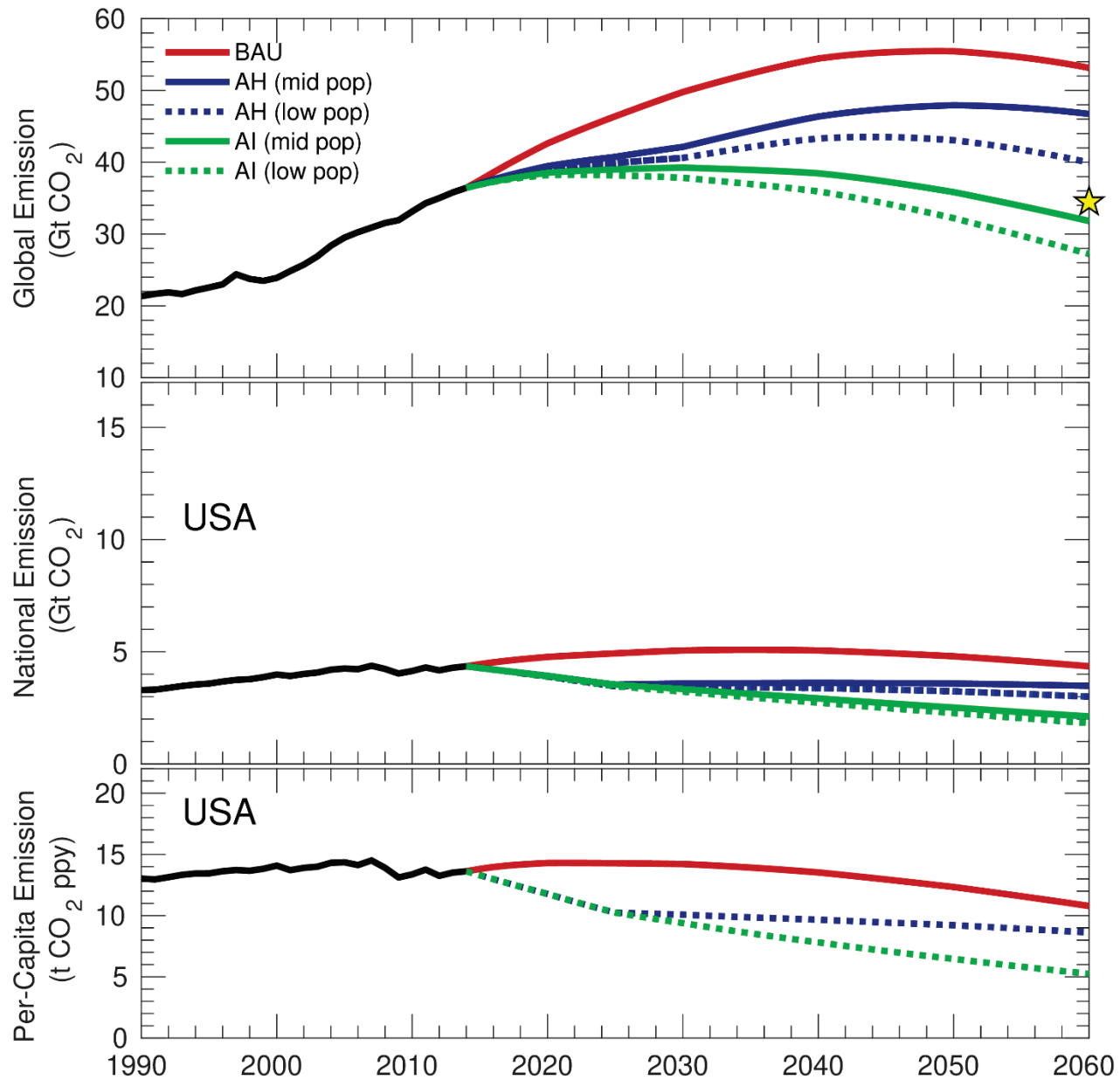
Trajectory: BAU

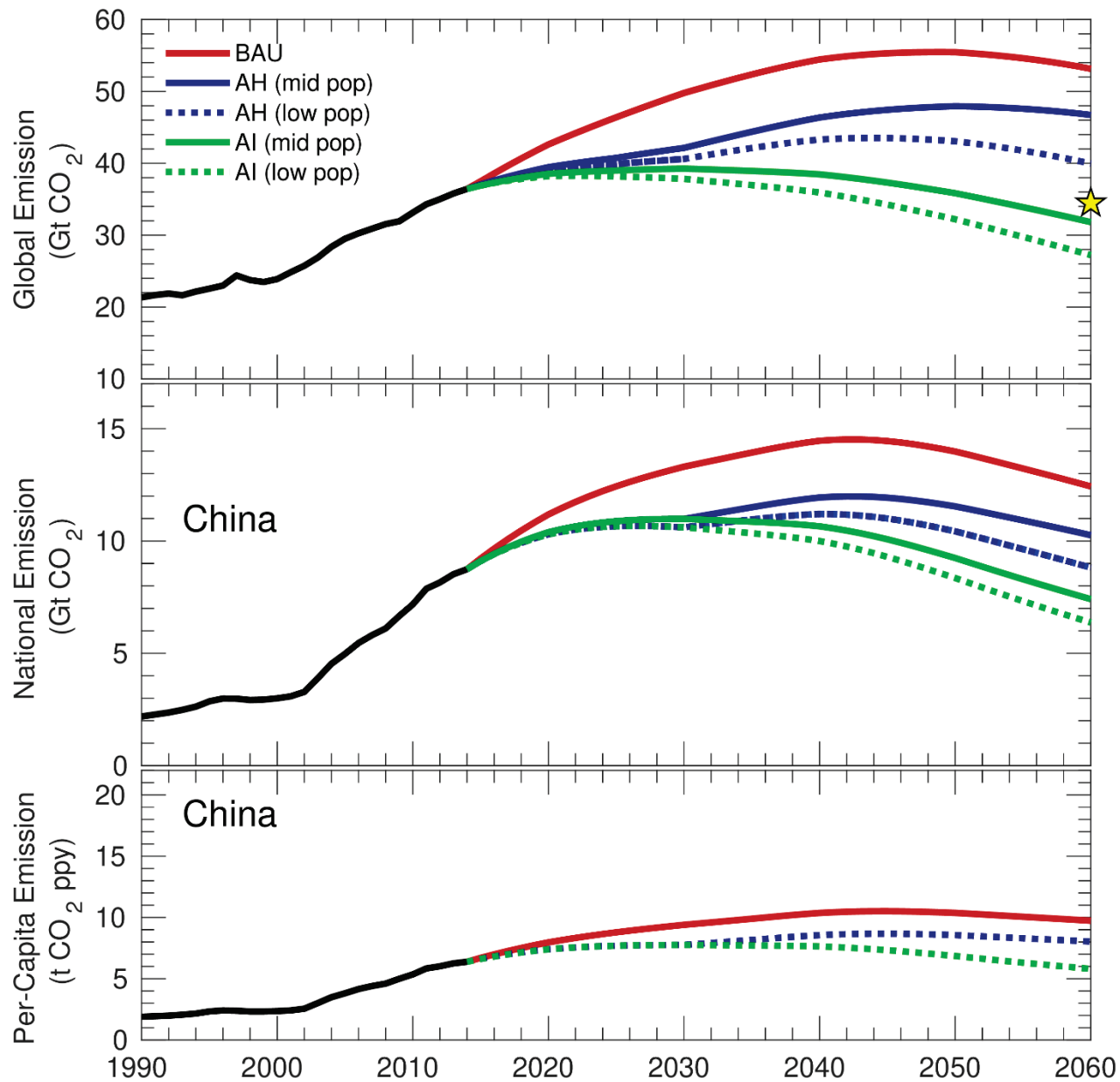
AH (33% by 2060) median pop

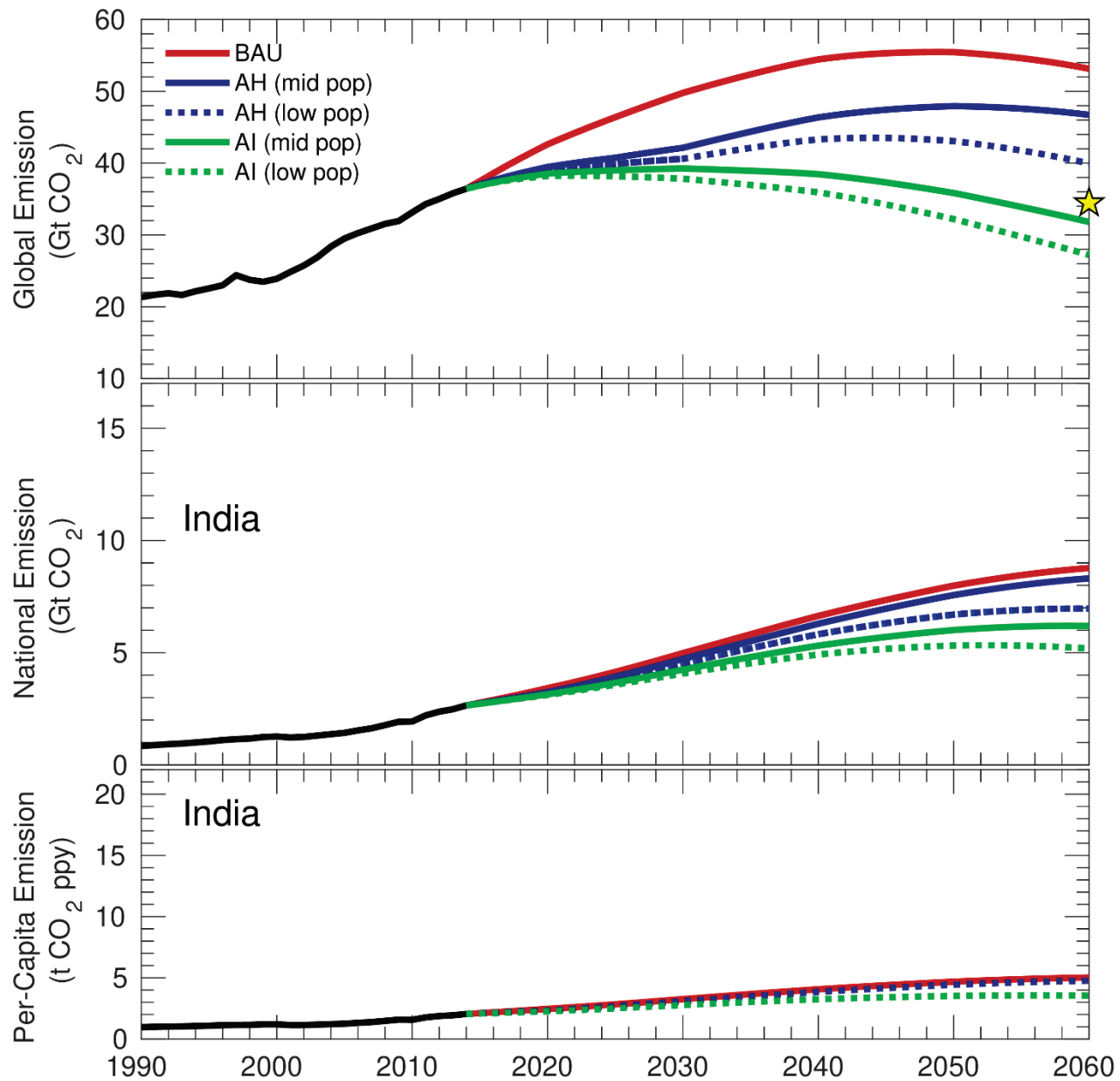
AH (33% by 2060) low pop

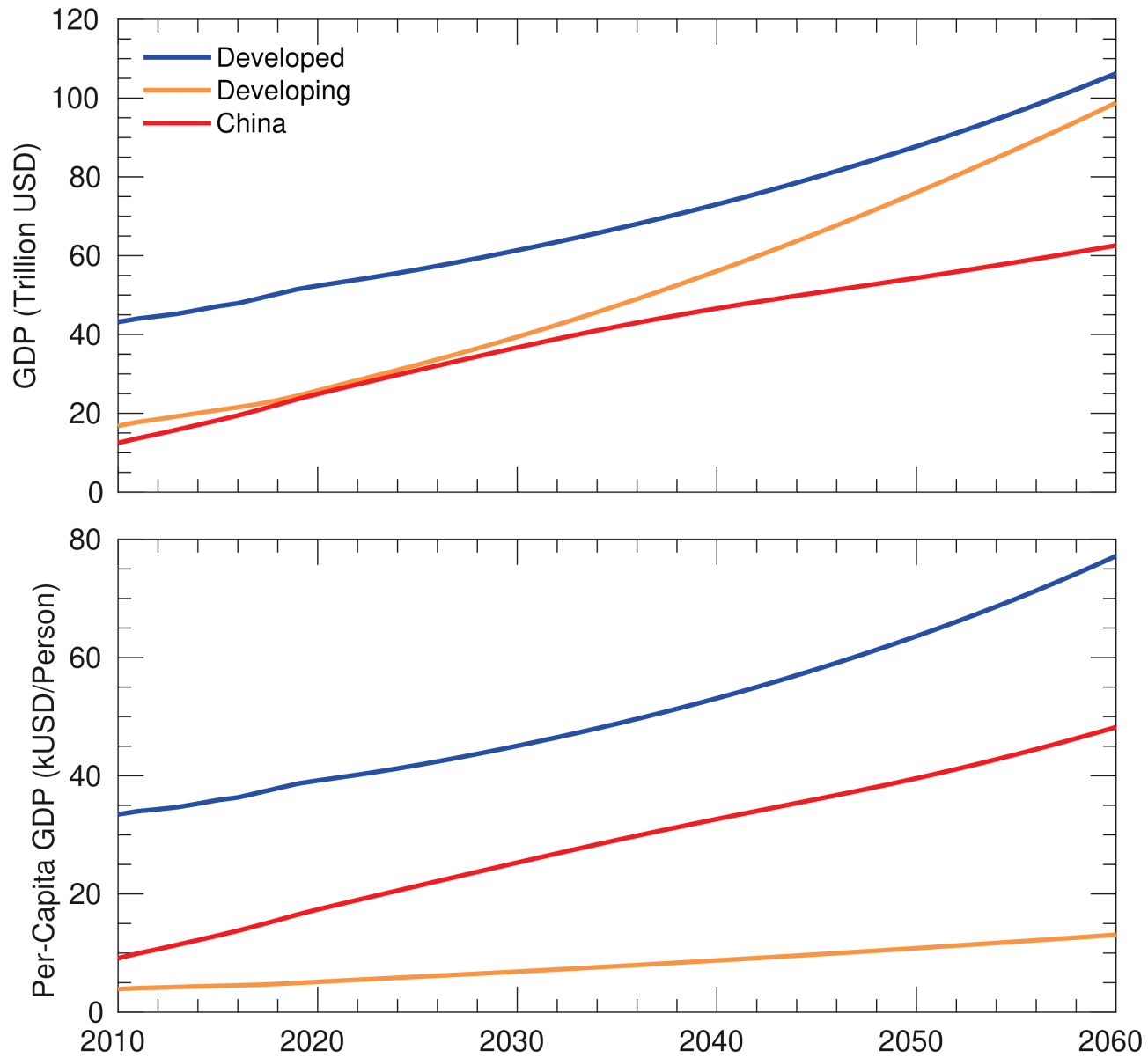
AI (50% by 2060) median pop

AI (50% by 2060) low pop

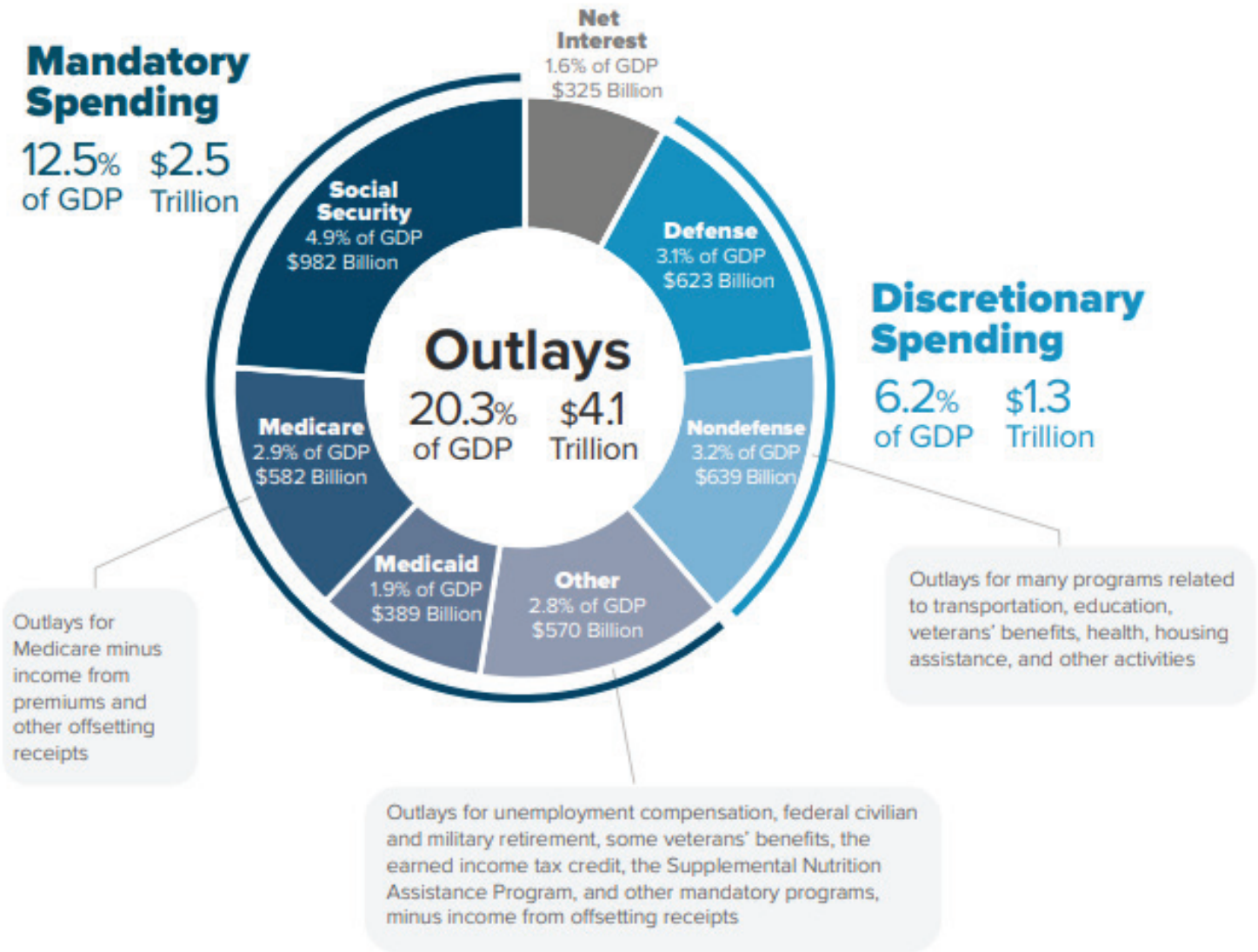








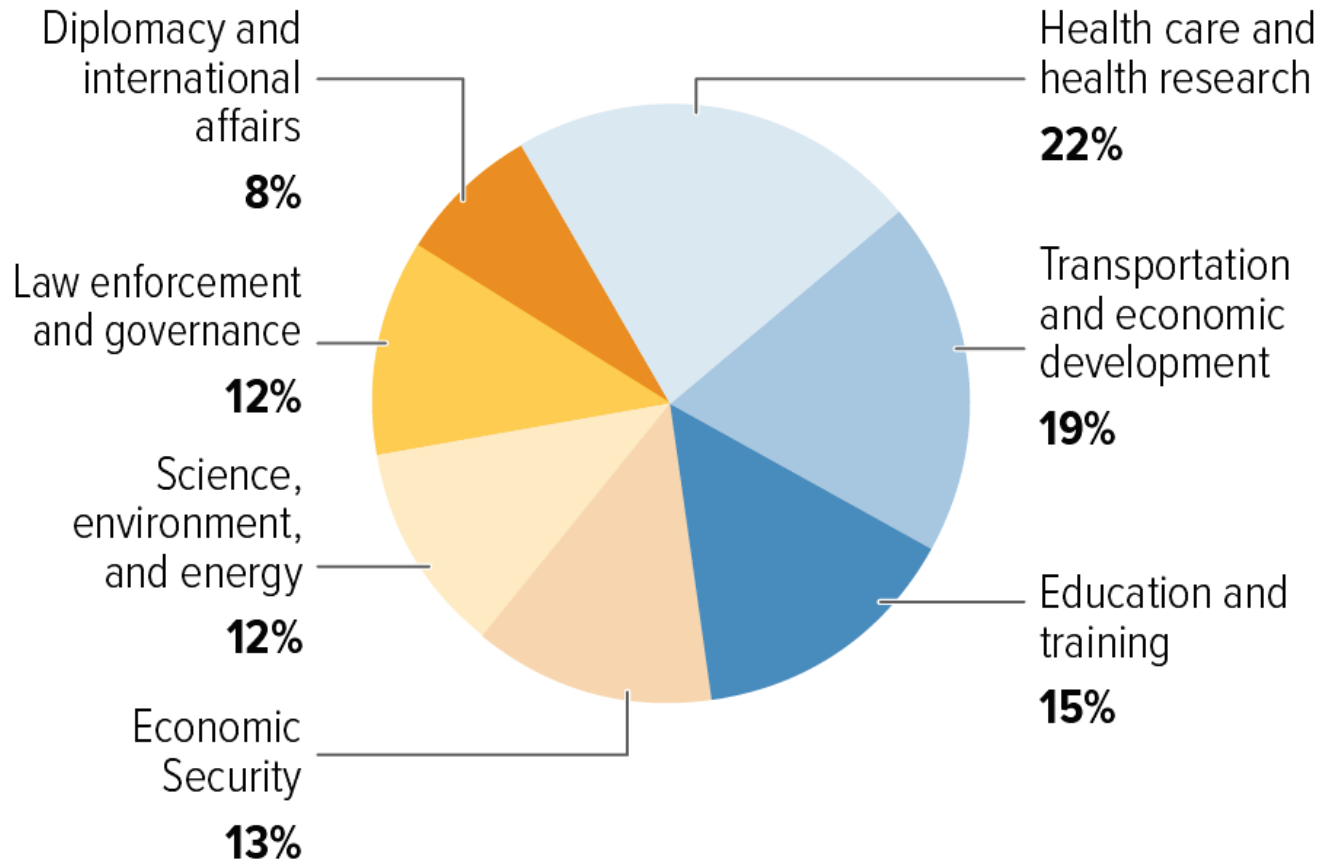
U.S. Total Spending, 2018



https://en.wikipedia.org/wiki/United_States_federal_budget

U.S. Non-Defense Discretionary Spending, 2019

Non-Defense Discretionary Spending, FY 2019

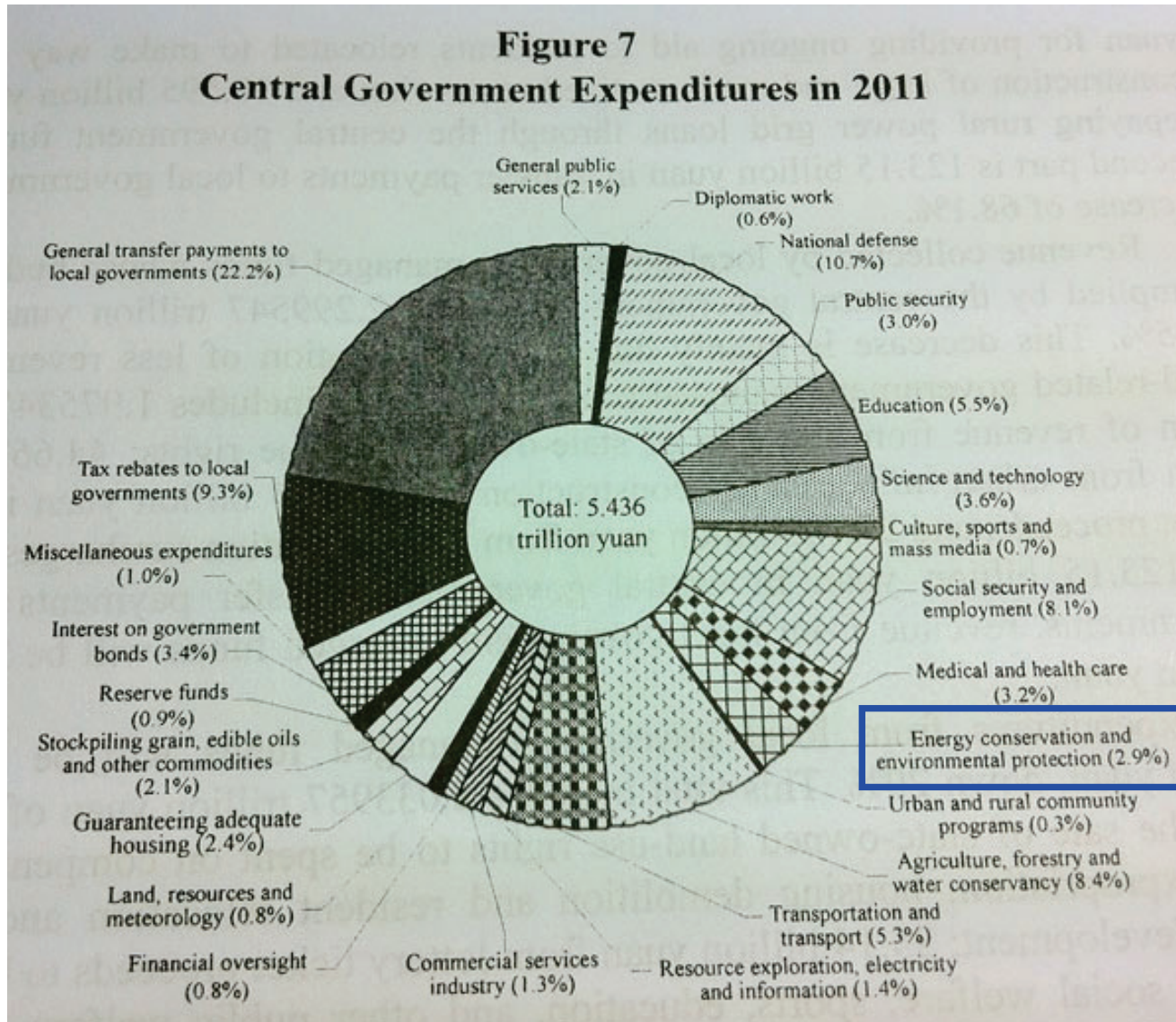


Source: CBPP calculations using Office of Management and Budget data

CENTER ON BUDGET AND POLICY PRIORITIES | CBPP.ORG

<https://www.cbpp.org/non-defense-discretionary-spending-fy-2017>

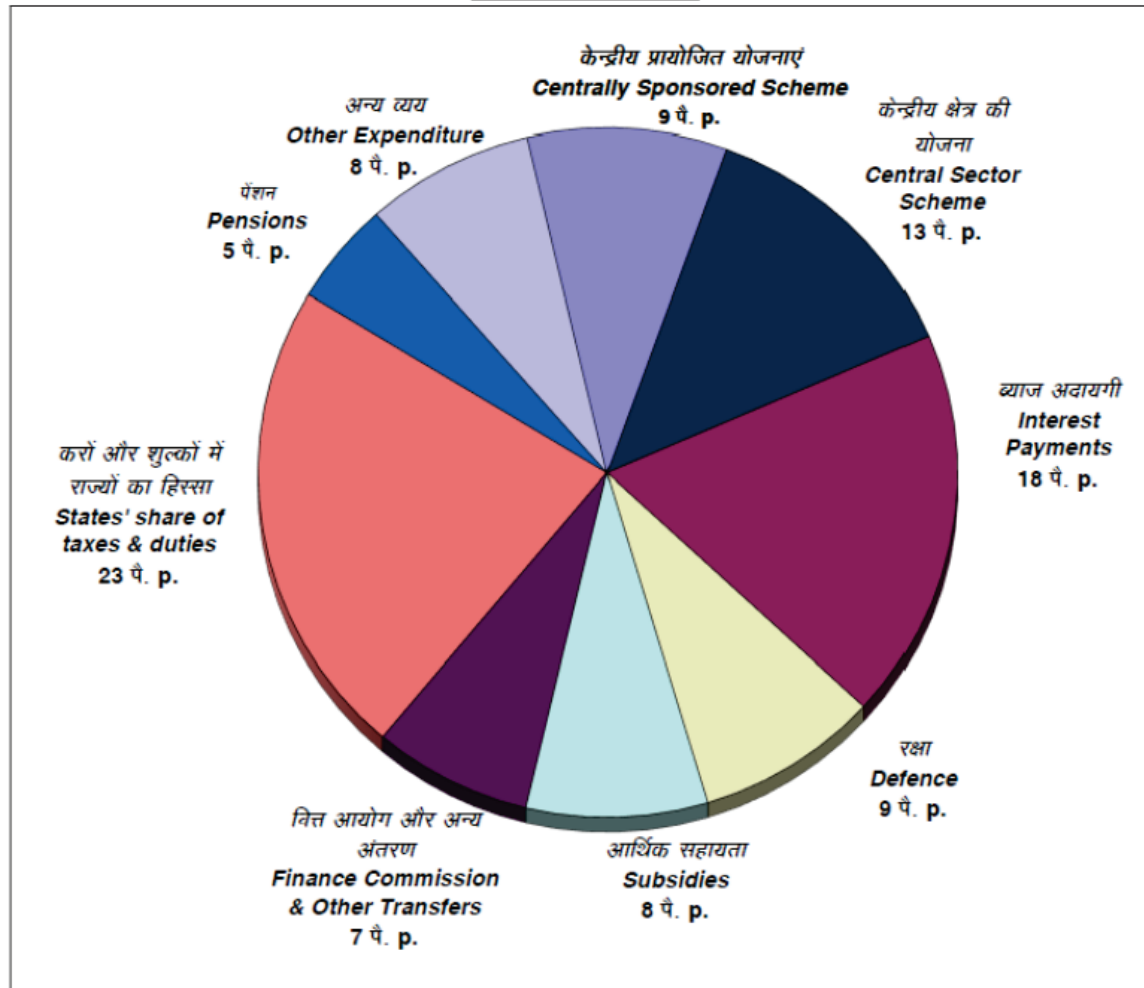
China Expenditures, 2011



http://www.china.org.cn/china/NPC_CPPCC_2011/2011-03/05/content_22065285.htm

India Expenditures, 2019

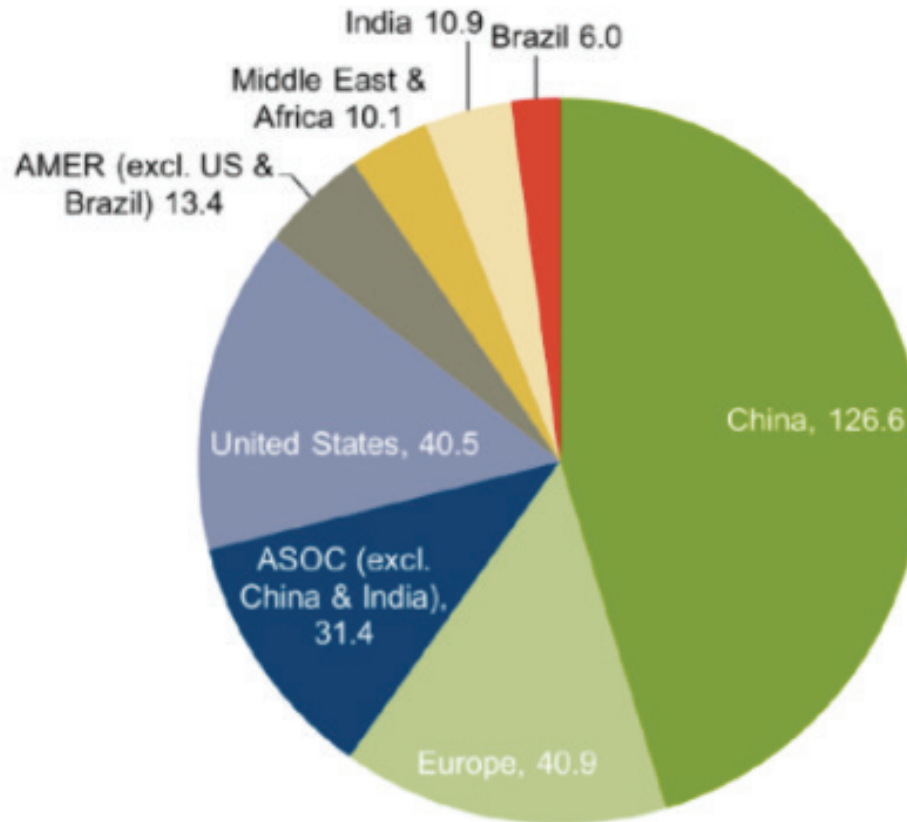
b. RUPEE GOES TO



<https://www.lukmaanias.com/wp-content/uploads/2019/05/ED-BUDGET.pdf>

Renewable Energy Investments, 2017

FIGURE 13. GLOBAL NEW INVESTMENT IN RENEWABLE ENERGY BY REGION, 2017, \$BN



<https://www.weforum.org/agenda/2018/04/for-every-1-the-us-spent-on-clean-energy-in-2017-china-spent-3/>