

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

Discussion #25: Action Day #3

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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>

26 November 2019

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

Energy & Economic Plan Implementation

China: Room 3408

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 & Economic Plan Implementation

India & Africa: Room 3400

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

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Energy & Economic Plan Implementation

US & Europe: Room 3425

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

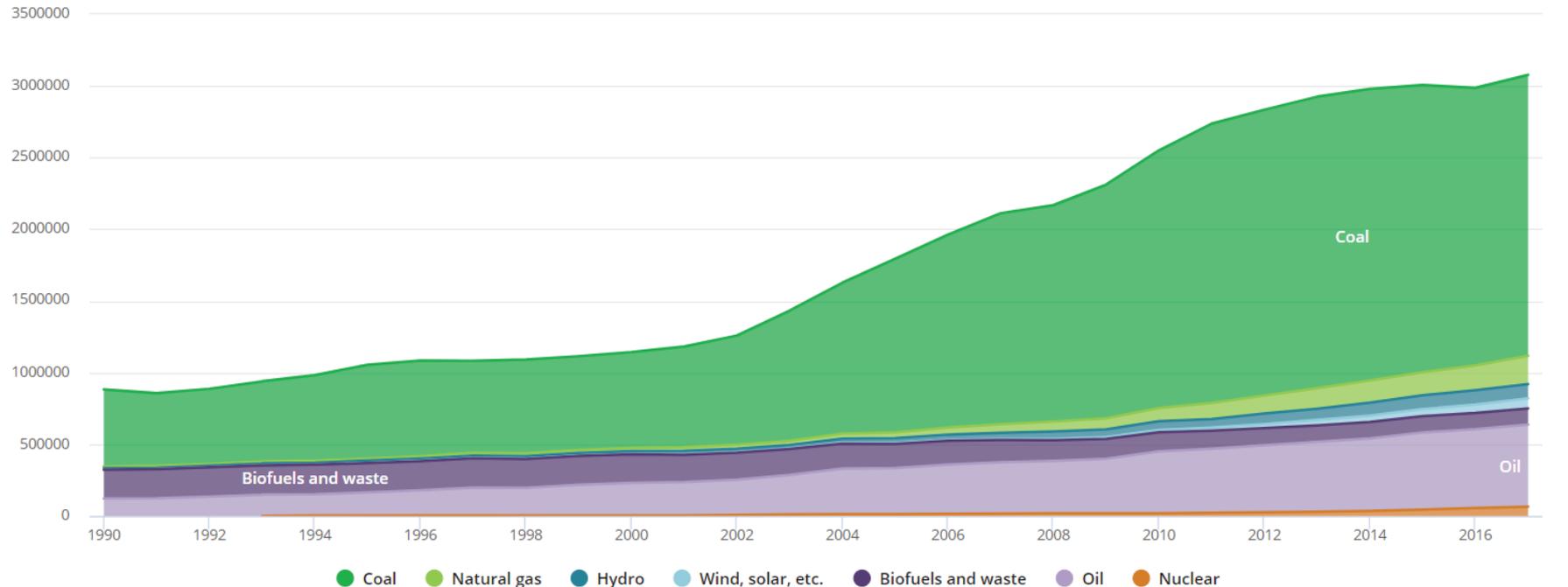
AI (50% by 2060) low pop



Channel the voice of America's Pledge

Energy Supply, China

Total primary energy supply (TPES) by source, China (People's Republic of China and Hong Kong China) 1990-2017
ktoe



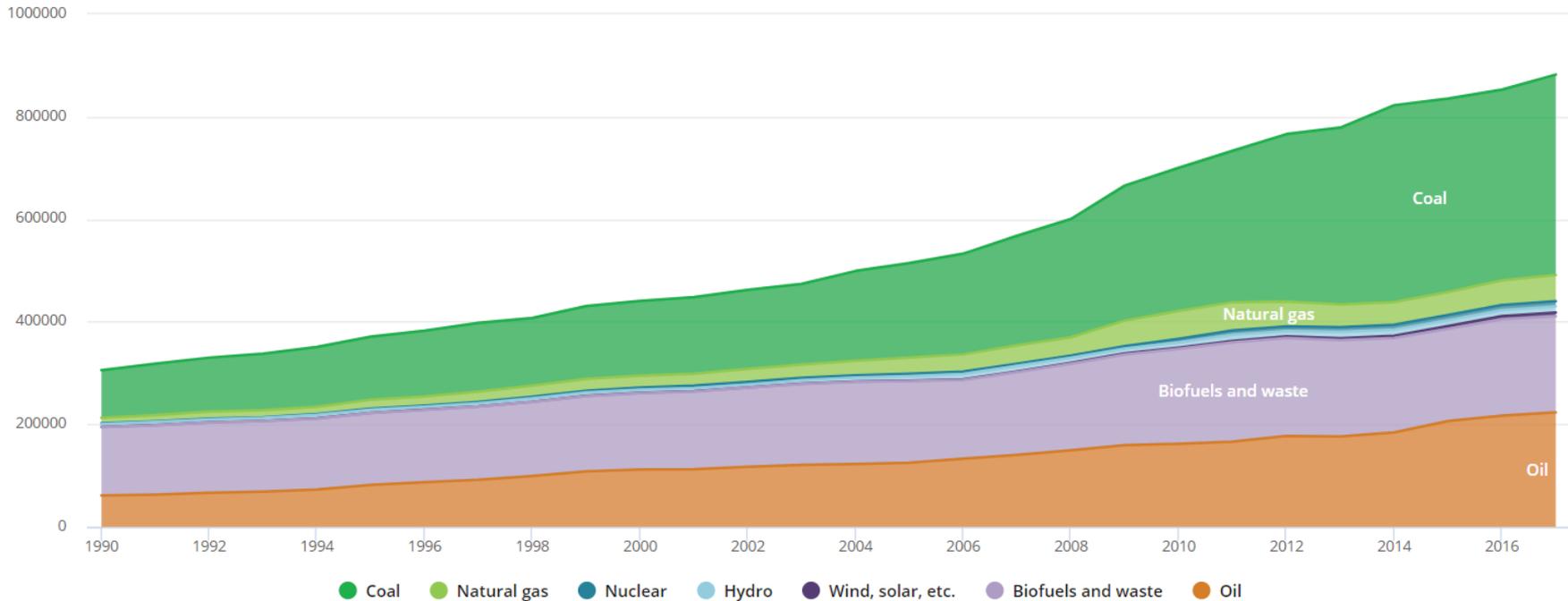
In 2017, ~11% of the primary energy supply in China was from sources other than coal, oil, and natural gas. The largest contributor to this share is biofuels & waste at ~3.7%, with hydropower 2nd at ~3.2% Wind & solar together provided 2.3% of China's primary energy supply in 2017.

<https://www.iea.org/statistics>

Energy Supply, India

Total primary energy supply (TPES) by source, India 1990-2017

ktoe

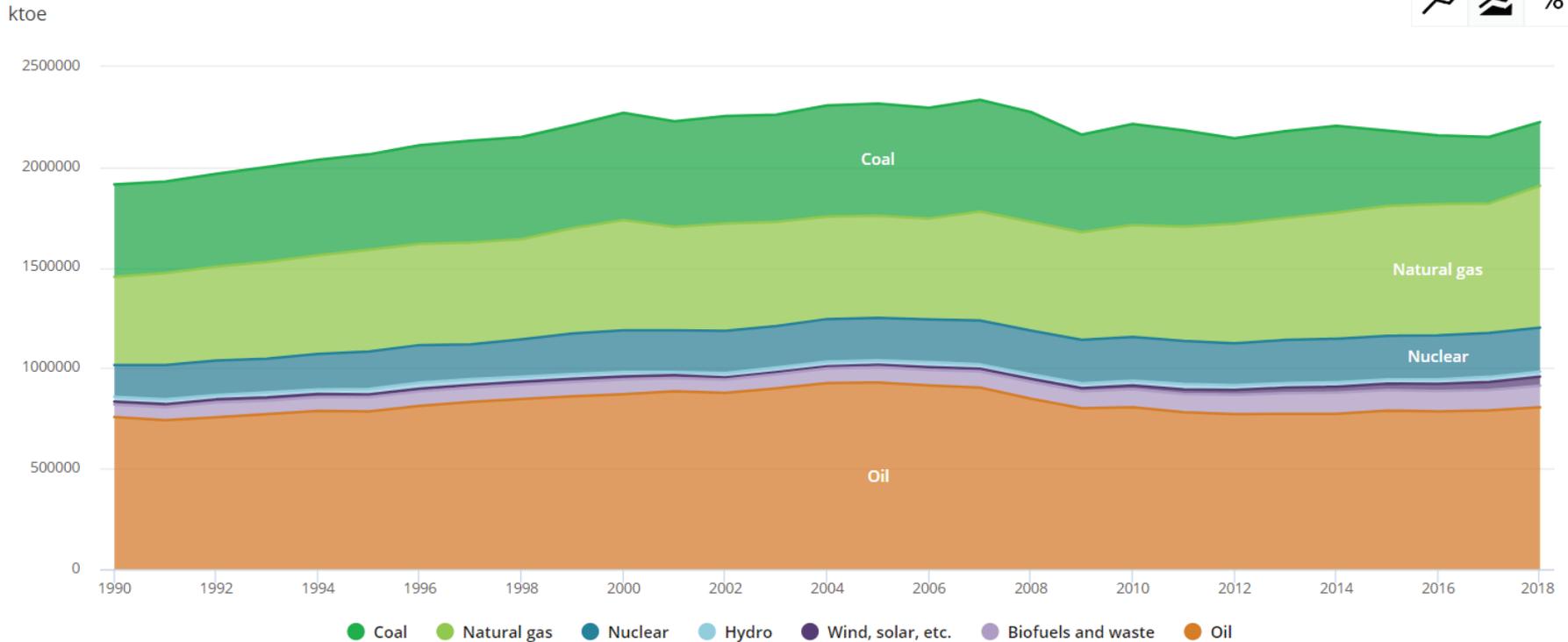


In 2017, ~25% of the primary energy supply was from sources other than coal, oil, and natural gas. However, the vast majority of this share is biofuels and waste.

<https://www.iea.org/statistics>

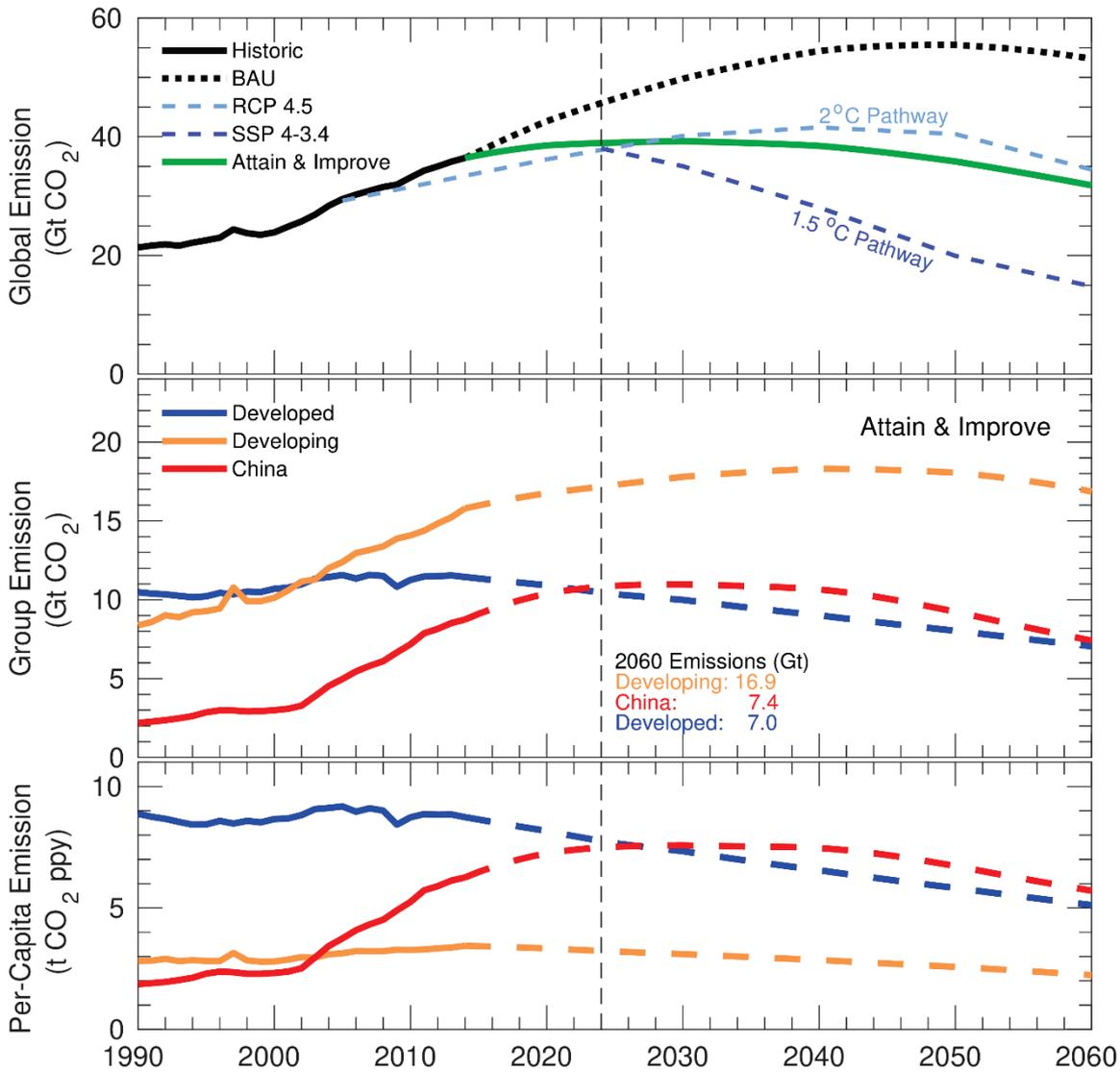
Energy Supply, United States

Total primary energy supply (TPES) by source, United States 1990-2018

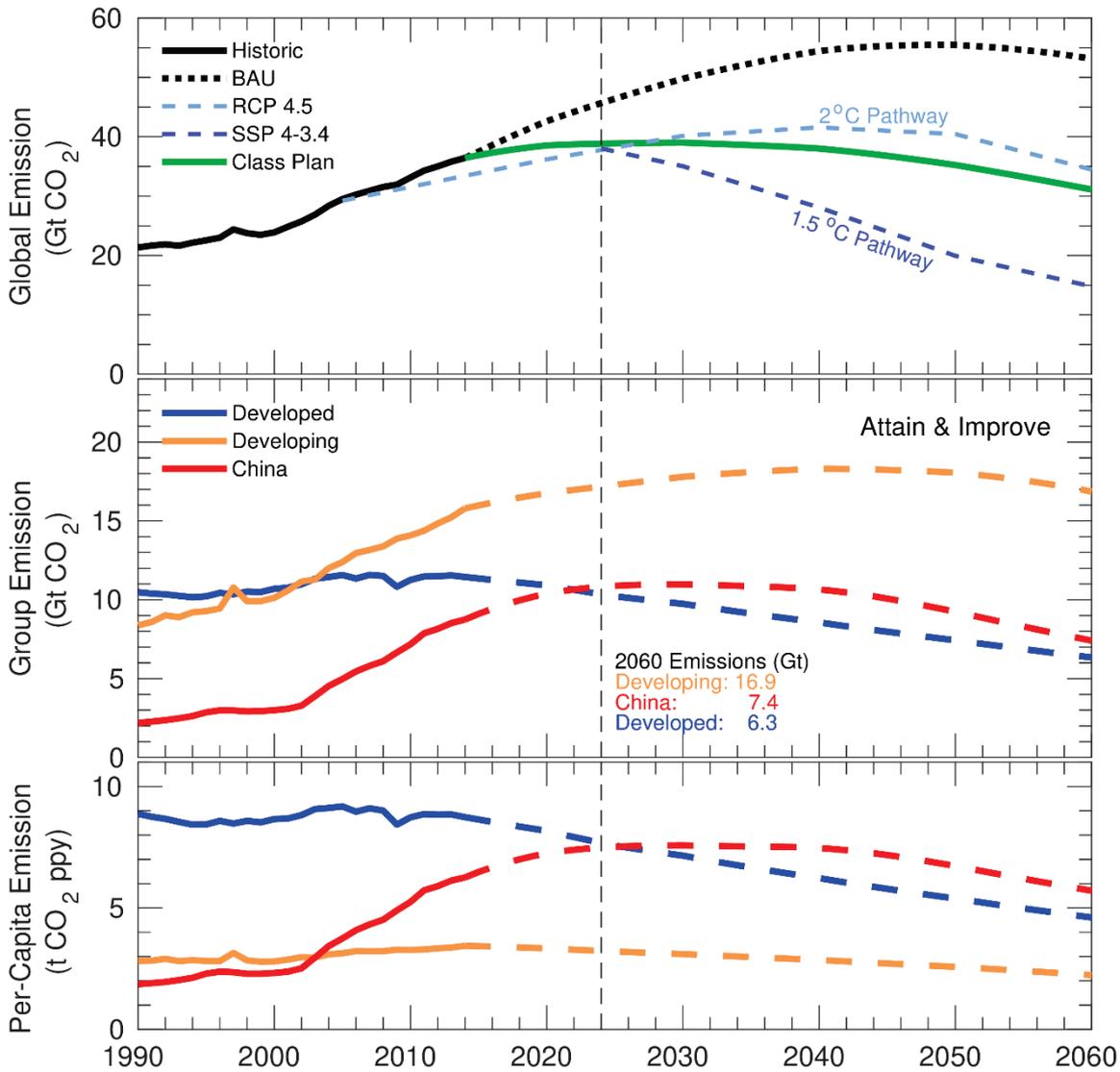


In 2018, ~18% of the primary energy supply in the U.S. was from sources other than coal, oil, and natural gas. The largest contributor to this share is nuclear, at ~10%. Wind & solar together provided 2.0% of US's primary energy supply in 2018 and hydropower supplied a little more than 1%.

<https://www.iea.org/statistics>



All groups at Attain & Improve, median popul



All groups at Attain & Improve, median popul + Developed nations achieve 55% renewables in 2060

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Need to produce 7 “plans”

Attain & Improve, US & Europe ← Energy Plan for 55% renewables, 2060
Economic Development Plan for transition

Attain & Improve, China ← Energy Plan for 50% renewables, 2060
Economic Development Plan for transition

Attain & Improve: India & Africa ← Energy Plan for 50% renewables, 2060
Economic Development Plan for transition

Negotiators: International Agreement setting forth mechanism for placing an international price on carbon, as well as any financial or technical trades needed for achieve “Attain & Improve” throughout the world

Each of these 7 “plans” should:

- a) Appear on a single piece of paper using 12-point font (front and back *or* just front OK)
- b) Must be approved by responsible Senates by Tuesday, 3 Dec. The sooner the better. Need unanimous approval of each piece of legislation & Presidential signature; however, each President can over-ride one single negative Senate vote.
- c) On day of presentation, we will hand these 7 plans to our judges & you all will stand up & describe.

Action Day 2

- 12:30 to 12:40 Charge for today
- 12:40 to 12:50 Countries meet with a focus on their view of the international agreement
China (3408), India & Africa (3400), US & Europe (3425)
- 12:50 to 1:00 **Negotiating Session 4 (3426):**
Negotiators: Focus on editing the international agreement, such that it might achieve approval by each country group
Country groups focus on consistency between your **energy** and **economic plans**
- 1:00 to 1:10 Negotiators back to countries
a) negotiator: Summarize Session 4
b) rest of country: react & redirect, if necessary
- 1:10 pm** Any Group desiring another Negotiating Session tell Ross, outside room 3408
- 1:10 to 1:35 **Negotiation Session 5 (3426), if necessary**
Negotiators: Seal the Deal, if possible. If not, will spill over to Tues (12/3)
Country groups: Focus on your presentations for “The Show” on Thurs (12/5)
- 1:35 pm Everyone return to 3408
- 1:35 to 1:43 2 *min* summary from team of negotiators & each President, focused again on **whether** the target of CO₂ reductions consistent with 2.0°C is achievable?
- 1:43 to 1:45 Charge for Tuesday

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Charge for Tuesday, 3 Dec:

students, please bring laptops to class, so you can work on the PowerPoint presentations for “The Show” on 5 Dec

Will first gather in 3408 for quick meeting

Will break into three groups soon after initial gathering

If more negotiating sessions are needed, this will be done on an ad-hoc basis

Hope is that the 7 plans (3 energy, 3 economic development, & the international agreement) will be **“set in stone”** before the start of class on Tuesday, 3 December

Once plans are approved and signed, each group should then devote time to develop a 6 to 8 slide Powerpoint presentation, to be presented on Thurs, 5 Dec that details the international agreement (will be presented first) and then the energy & economic development of their country group

On Thurs Dec 5, we’ll have four 10-minute presentations:

- * **negotiators present int’l agreement**
- * **China, India & Africa, US & Europe present their respective energy & economic development plans**

Class meeting on Tues, Dec 3 will be devoted to working on these presentations