

Name: _____

EARTH THE OPERATOR'S MANUAL (HW#9, 10 points)

See the video <https://www.youtube.com/watch?v=2Ryvpslx47E> and the annotated transcript http://earththeoperatorsmanual.com/annotated_script/lightbox2.html.

DUE: Beginning of class, Monday April 11. Typed, doubled spaced. No emails.

1. What is Richard Alley's field of science and his university affiliation?
2. Which country would still be able to power their vehicles if all the gasoline in the world suddenly disappeared? What fuel do they use instead?
3. If we measured energy consumption in terms of 100 light bulbs, how many would South Americans average? North Americans?
4. What was the average CO₂ levels cited? What are the current 2016 CO₂ levels? (This is not in the video. Look for info about the Keeling curve)
5. What type of carbon (i.e., 12, 13 or 14) is on the rise?
6. What is the QDR?
7. What percentage of China's electricity is generated by coal?
8. What are the five renewable energy sources that will (hopefully) account for 61% of the energy in 2030?
9. Where is the National Ice Core Lab? How old are their oldest cores?
10. What was new for you in watching this program?