Electric Power

Why Focus on Electricity?

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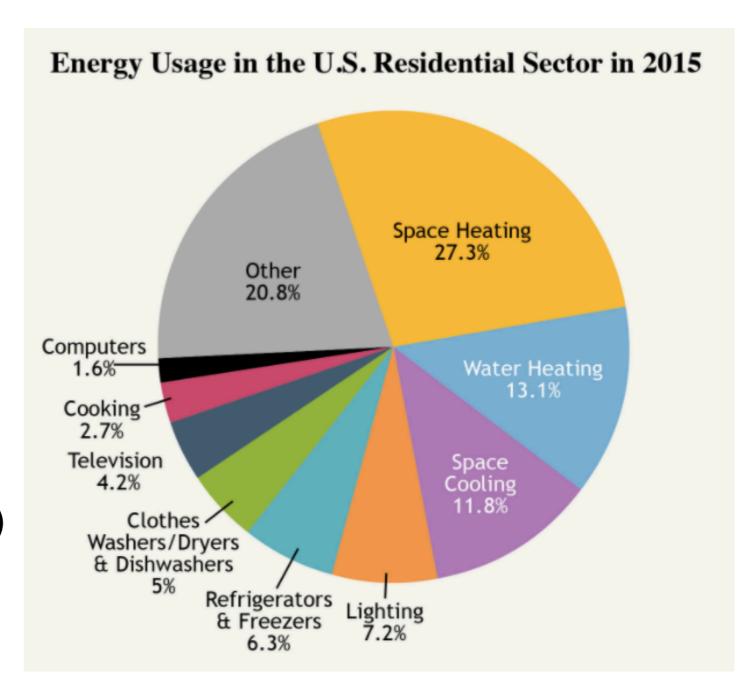
USA, 2015:

28% TRANSPORTATION

(moving people and cargo)

32% INDUSTRY

40% RESIDENTIAL (homes & commercial buildings)



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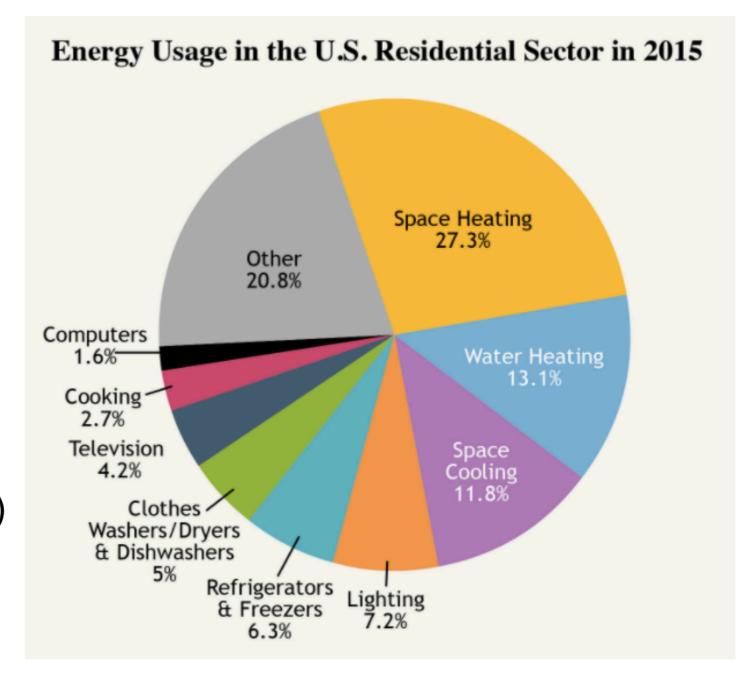
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Source: **NeedToKnow**

National Averages (Watts per person)

Country	Avg Watts/person	Country	Avg Watts/person
Iceland	5777	China	309
Liechtenstein	4092	India	140
Norway	2740	Bangladesh	40
Kuwait	2176	Nigeria	14
Bahrain	2069	Ethiopia	7
UAE	1848	Rwanda	4
Canada	1704	Somalia	3
Finand	1681	Gaza Strip	0.01
USA	1377	WORLD	309

Source: Wikipedia

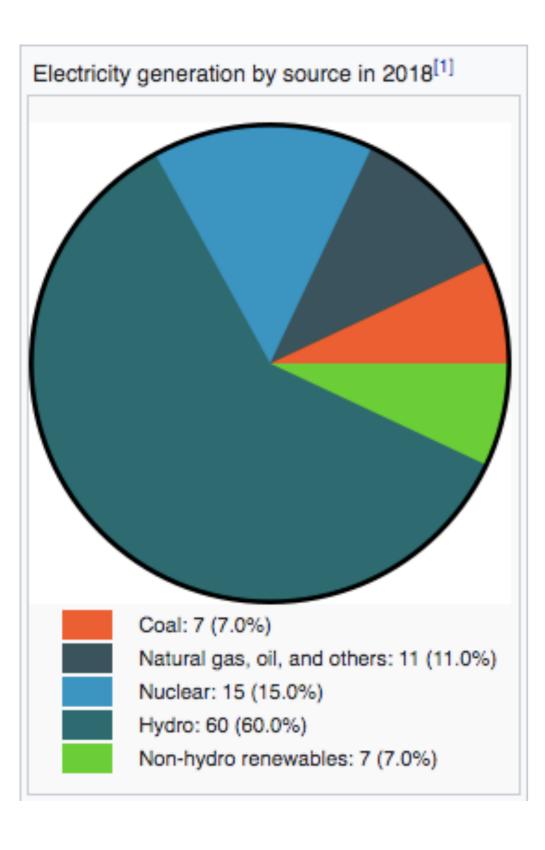
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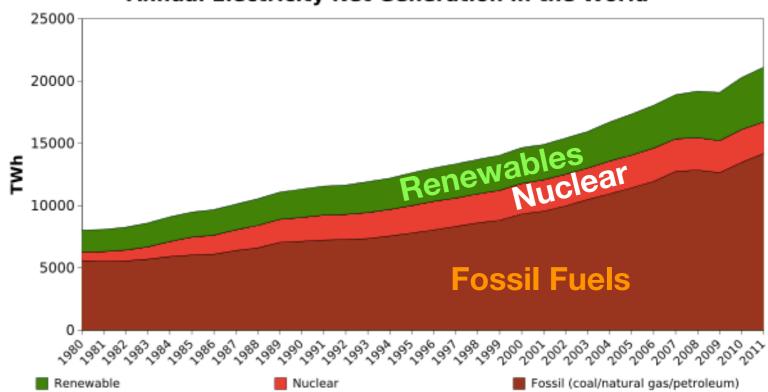
 \Rightarrow 2.3 × 10¹² Watts for 7.4 billion people

Canada

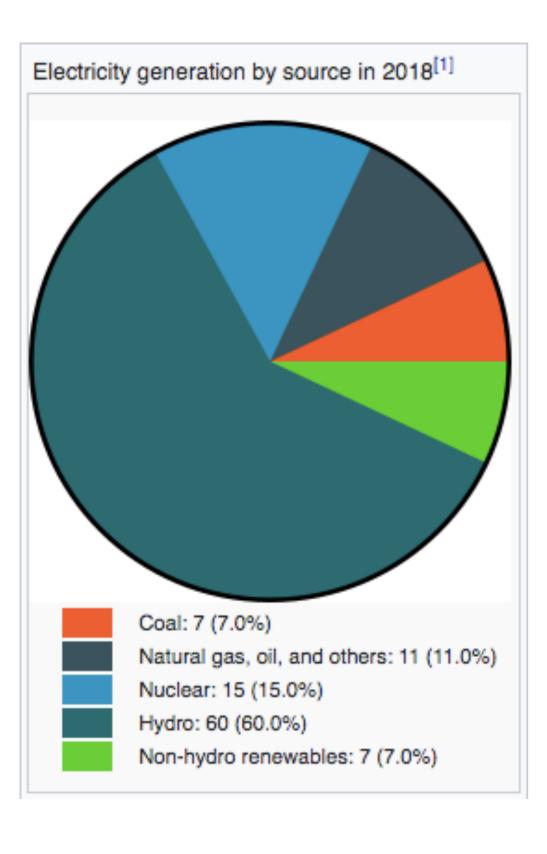


vs. World

Annual Electricity Net Generation in the World

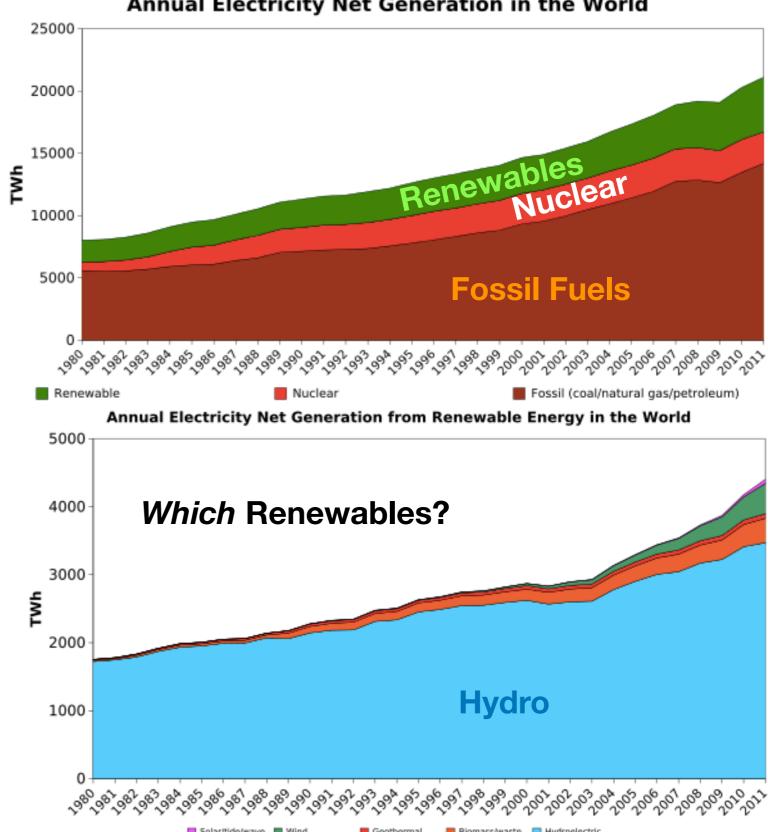


Canada



World VS.

Annual Electricity Net Generation in the World



False Polychotomies:

Should we focus our efforts on...

Ending Use of Fossil Fuels,

- Ending Use of Fossil Fuels,
- Developing More/Better Renewable Power,

- Ending Use of Fossil Fuels,
- Developing More/Better Renewable Power,
- Developing More/Better Nuclear Power,

- Ending Use of Fossil Fuels,
- Developing More/Better Renewable Power,
- Developing More/Better Nuclear Power,
- Improving the Efficiency of Appliances, or

- Ending Use of Fossil Fuels,
- Developing More/Better Renewable Power,
- Developing More/Better Nuclear Power,
- Improving the Efficiency of Appliances, or
- Learning to "Get By With Less"?

- Ending Use of Fossil Fuels,
- Developing More/Better Renewable Power,
- Developing More/Better Nuclear Power,
- Improving the Efficiency of Appliances, or
- Learning to "Get By With Less"?

As usual, the answer is "YES!"

Wikipedia Sources

- Electricity Generation
- Electric Power Usage
- Canadian Electrical Power by Source