

China Solar



- About 50 MW of installed solar capacity was added in 2008, more than double the 20 MW in 2007
- According to some studies, the demand in China for new solar modules could be as high as 232 MW each year from now on until 2012
- The government has announced plans to expand the installed capacity to 1,800 MW by 2020

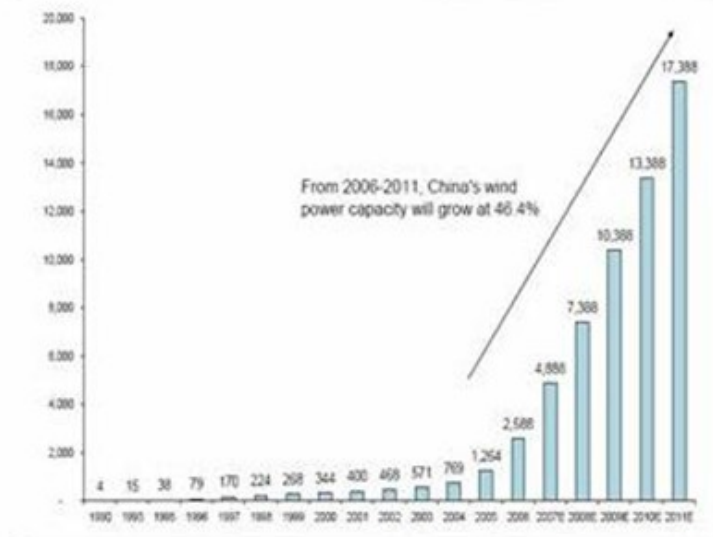


China Wind



- In 2008 China total installed wind power reached 12 GW, more than double it's wind power generated in 2007
- By 2020 China will have installed 120 GW of Wind power

China's Wind Power Installed Capacity Growth (MW)



Source: BTM Estimates; Morgan Stanley Research

HR 2454

- **By 2020, electric utilities must use 20% demand from renewable energy sources.**
- **Invests \$190 billion in new clean energy technologies and energy efficiency.**
- **Mandates new energy-saving standards for buildings, appliances, and industry.**
- **Reduces major U.S. carbon emissions by 17% by 2020 and over 80% by 2050.**
- **Protects consumers from energy price increases.**

Contact info

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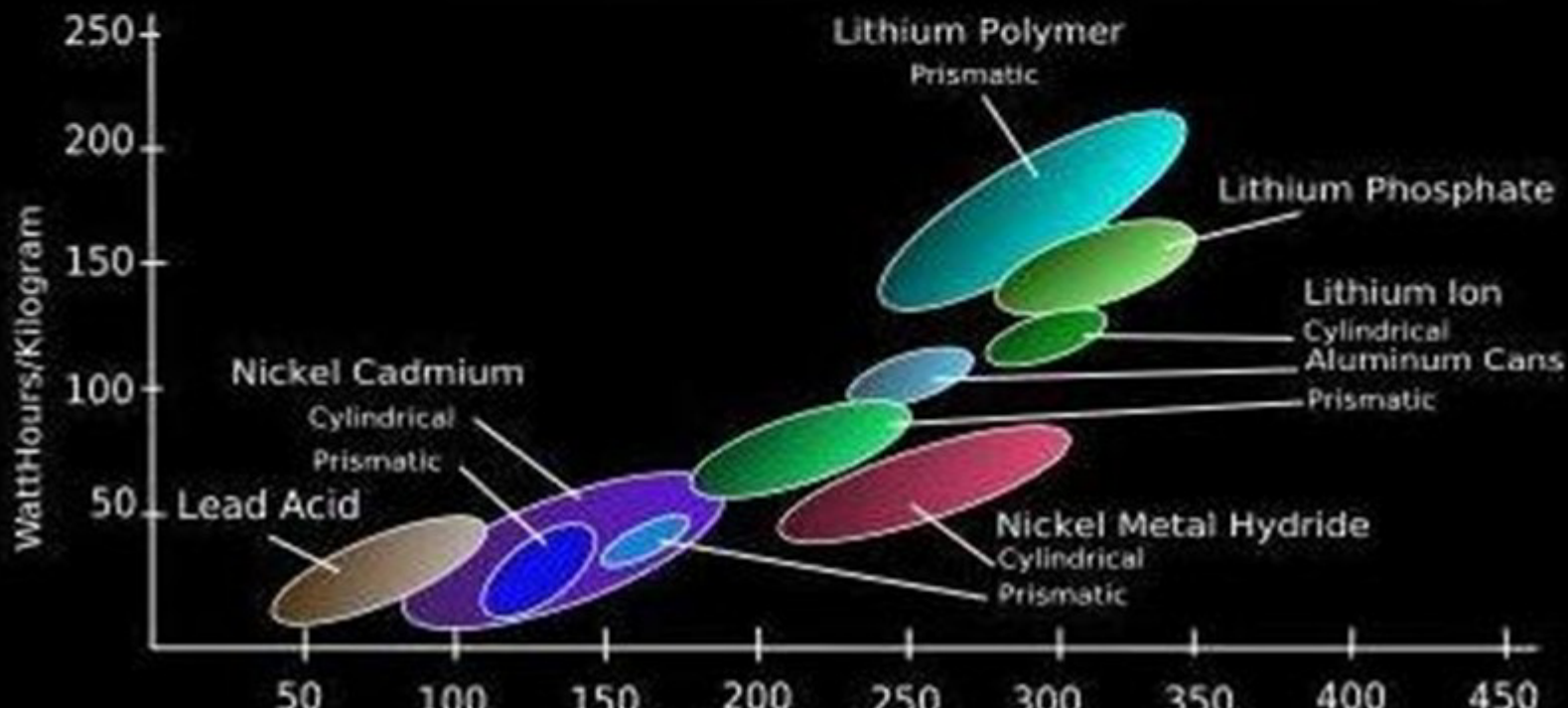
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Battery Power

Ni-MH hybrid vehicle batteries, which accounted for 1.7% of the world rechargeable battery market in 2008, will grow to hold 4.2% of market share by 2013

Large scale batteries, particularly sodium sulfur (NaS), will grow from a \$235 million per year market to \$900 million a year in 2013 on the growth of increased renewable energy power generation



CSP

***There are more than 6GW
of concentrating solar
power plants in the
development pipeline.***

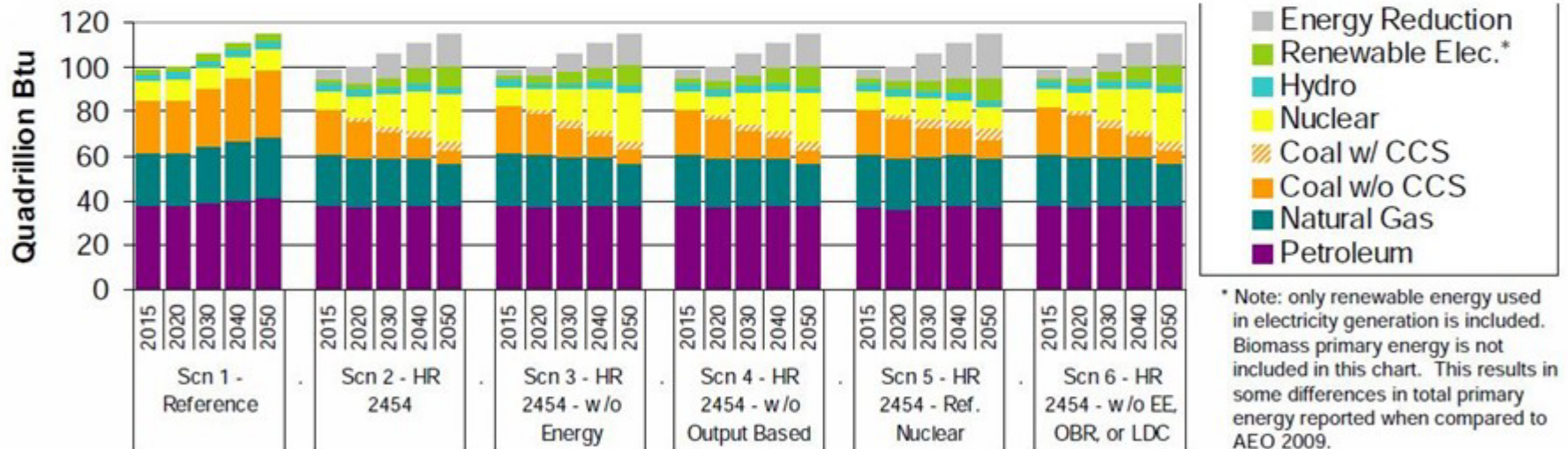
***The current worldwide
CSP installed capacity is
more than 500 MW***



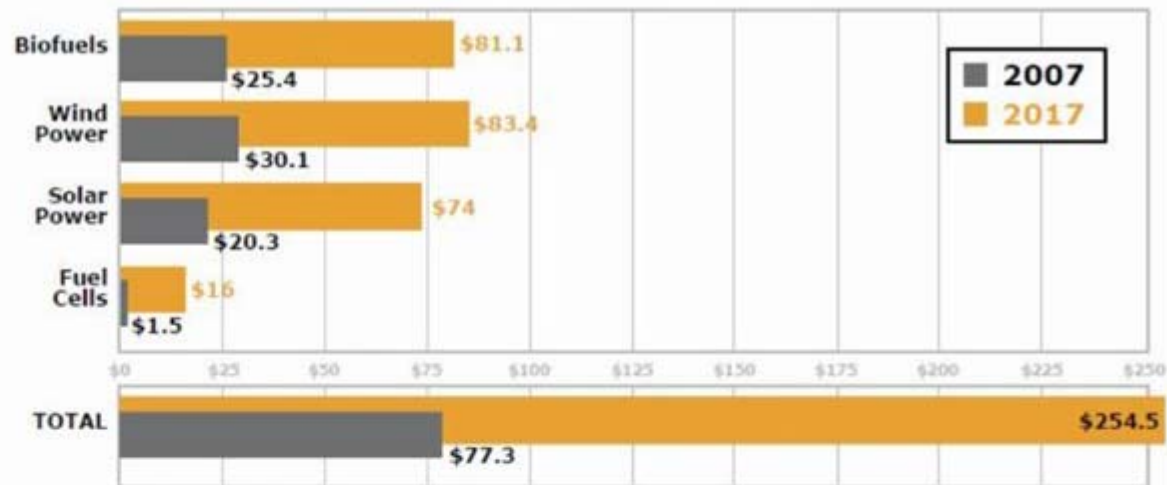
Analysis

Primary Energy

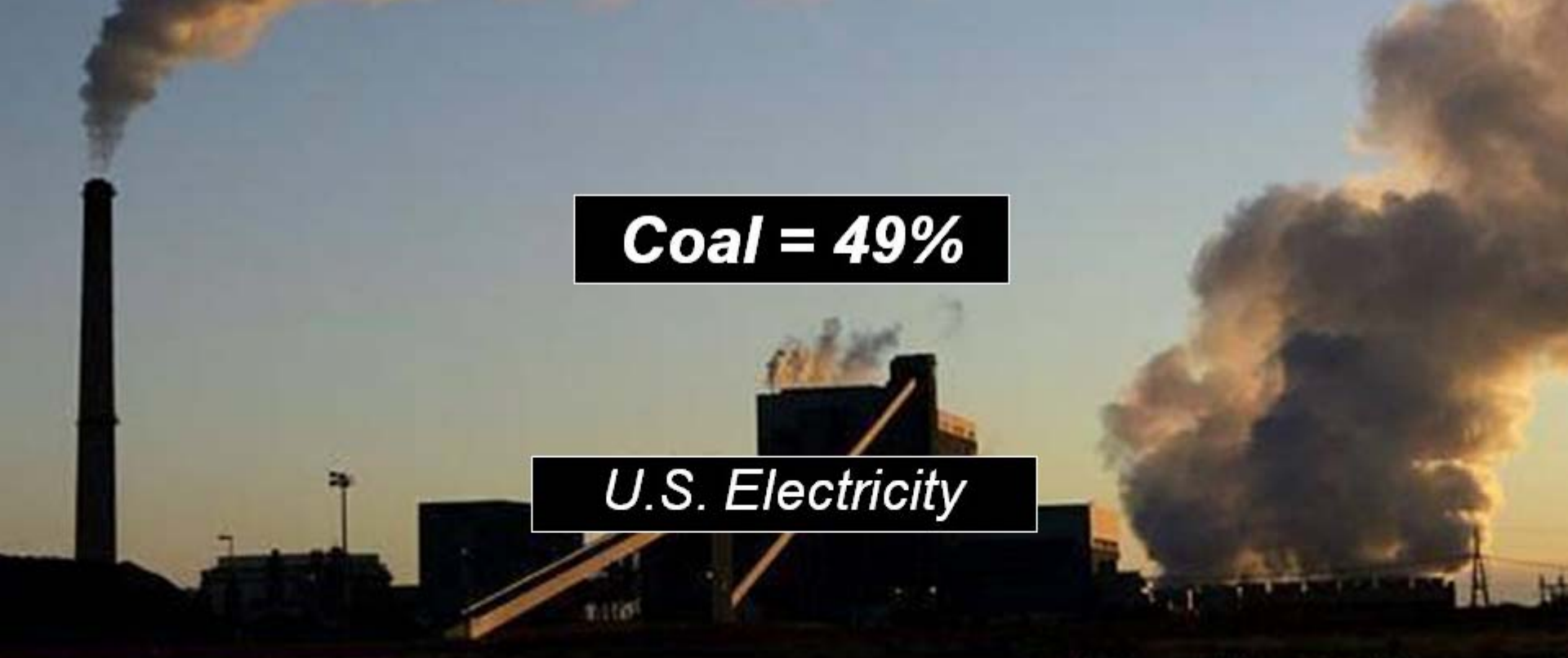
H.R. 2454 Scenario Comparison (ADAGE)



Global Clean-Energy Projected Growth 2007-2017 (\$US Billions)



Source: Clean Edge, 2008

A photograph of a large industrial facility, likely a coal power plant, with several tall smokestacks emitting thick plumes of white steam or smoke against a clear sky.

Coal = 49%

U.S. Electricity

A photograph of an industrial facility with several tall, cylindrical towers and a complex network of pipes, likely a natural gas processing plant.

Natural Gas = 20%

A photograph of a nuclear power plant featuring two large, white, conical cooling towers emitting steam. In the foreground, a yellow radiation warning sign is visible on a post.

Nuclear = 19.4%

A photograph of a hydroelectric dam with water cascading over its spillways, creating white foam and spray.

Hydroelectric = 7%

A photograph of several wind turbines in a field under a clear sky.

Renewables < 3%