

# Yanzhou Coal Mining Company Limited: Overseas Acquisitions (B)

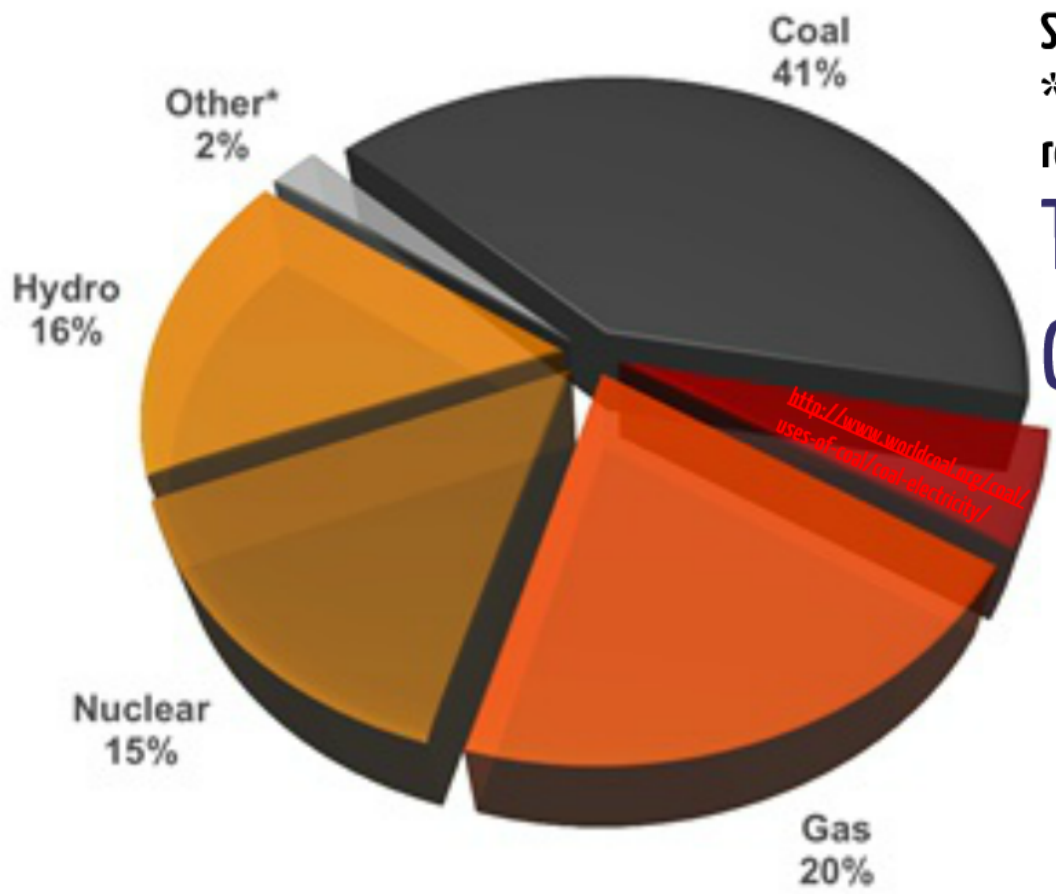
## Main Sources of Energy

- Coal
- Oil
- Nuclear
- Natural Gas

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Source: IEA 2008

\*Other includes solar, wind, combustible renewables, geothermal & waste.

## Total World Electricity Generation by Fuel (2006)

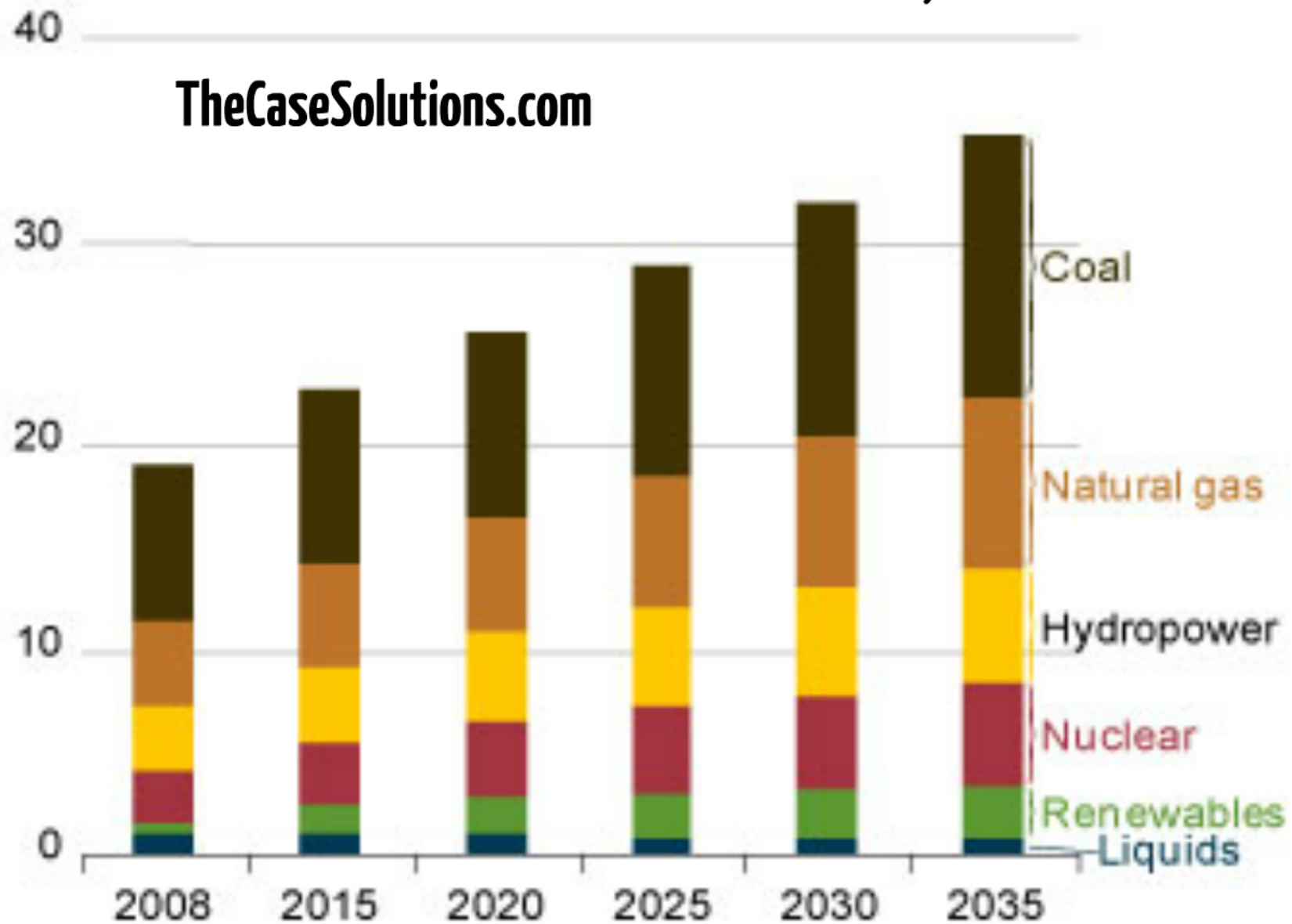
<http://www.worldcoal.org/coal/uses-of-coal/coal-electricity/>

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Figure 6. World net electricity generation by fuel type, 2008-2035

(trillion kilowatthours)

Source: EIA, 2010



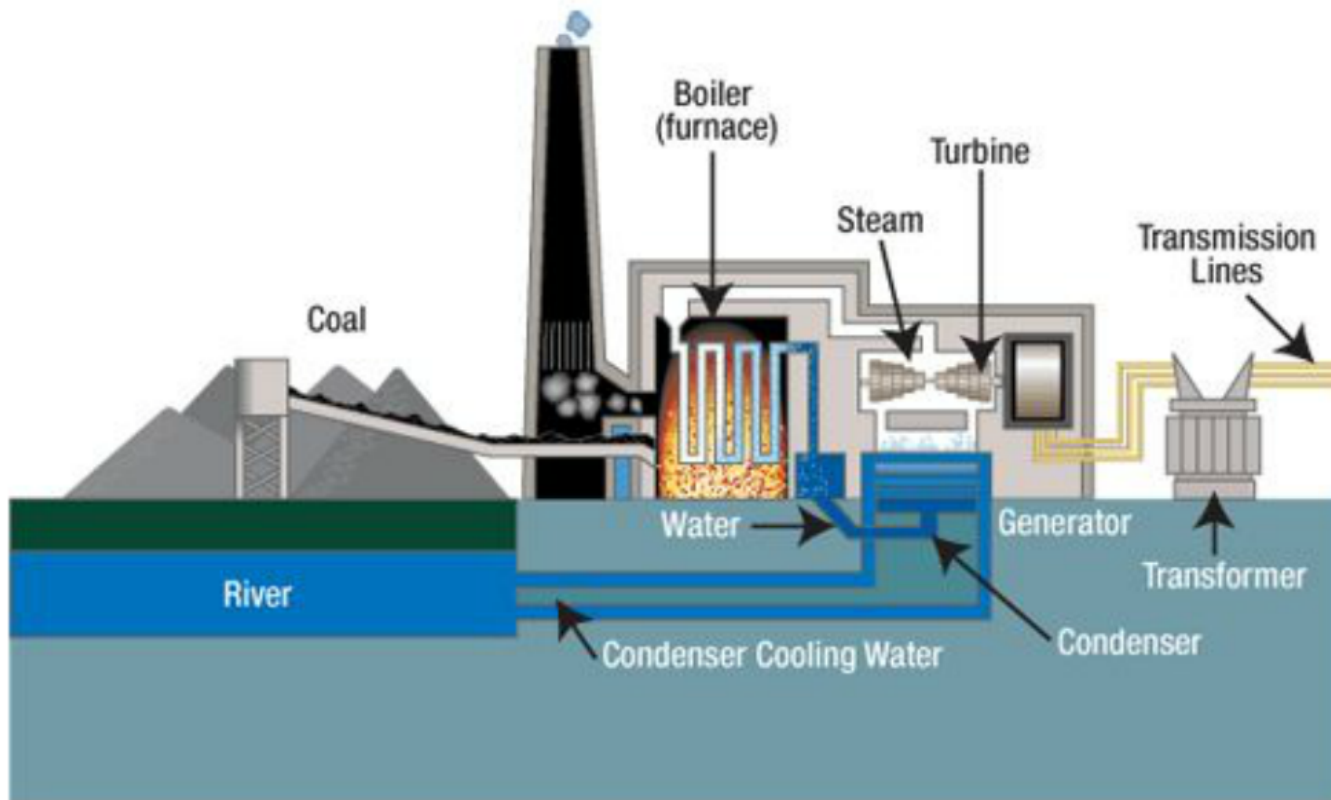
# About Coal

## Common Uses:

- Electricity generation.
- Gives steel its strength and flexibility.
- Used for manufacturing in paper and concrete/ cement industries.
- As a liquid fuel

How much do we use?

Around 6.1 billion tonnes of hard coal were used worldwide last year and 1 billion tonnes of brown coal. Since 2000, global coal consumption has grown faster than any other fuel.



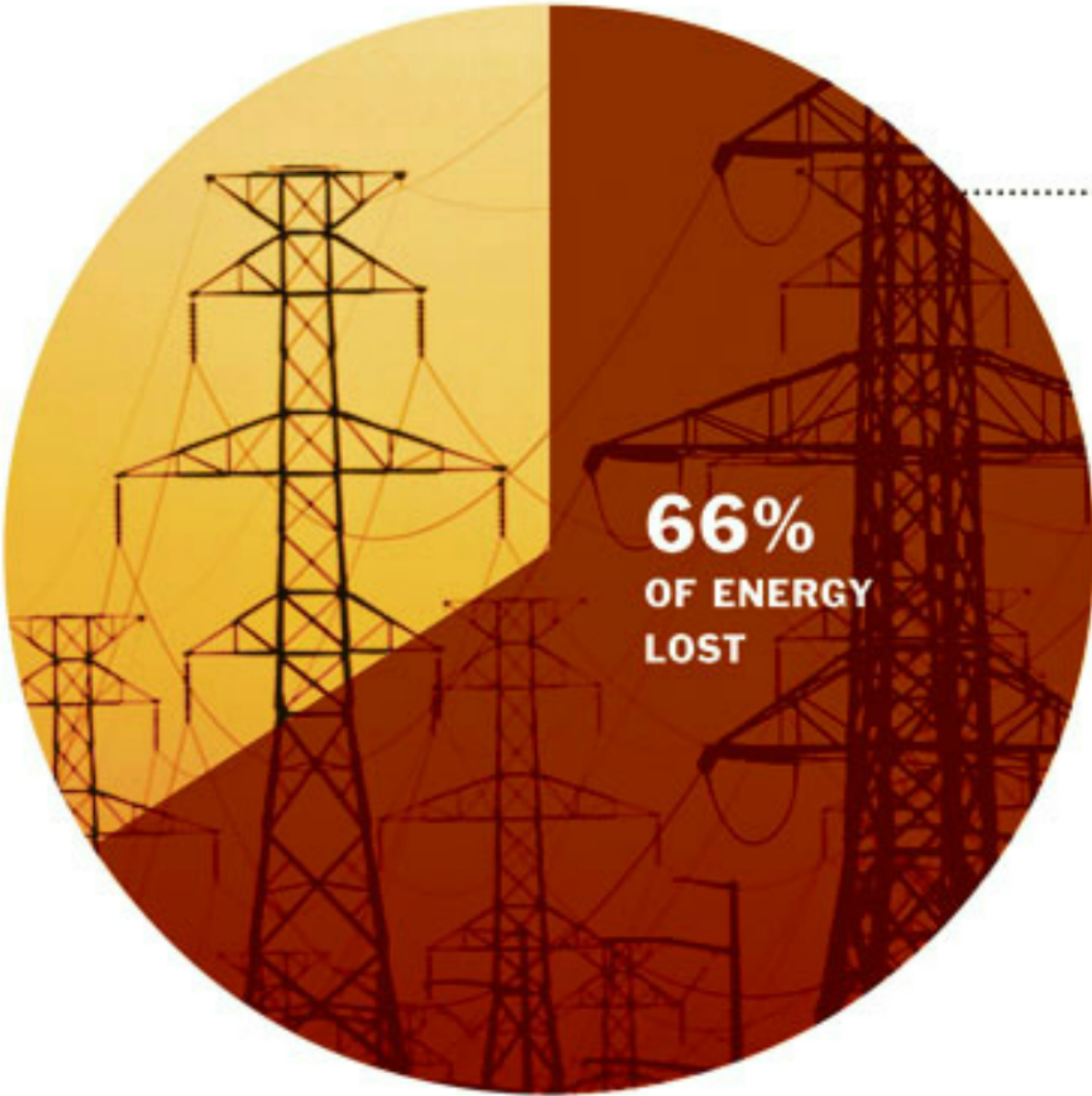
# Recent Decline

<http://www.nytimes.com/interactive/2012/05/29/us/coal-declines-as-source-of-energy.html?ref=coal>



"Coal use had been increasing like other types of fuel, but it has fallen sharply in recent years."

**"Of the nation's 320 gigawatts of coal capacity, nearly 30 have been announced for retirement by 2020."**



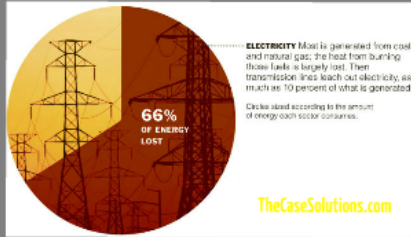
..... **ELECTRICITY** Most is generated from coal and natural gas; the heat from burning those fuels is largely lost. Then transmission lines leach out electricity, as much as 10 percent of what is generated.

Circles sized according to the amount of energy each sector consumes.

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# Decreasing Popularity of Coal



- High carbon emissions
- "Dirtiest" fuel
- Rise of "green" energy alternatives
- Global warming becoming a larger-scale issue
- Unsafe conditions for miners
- New regulations via Obama's "War on Coal"

"Coal and electric utilities, long allied, are beginning to split. More than 100 of the 500 or so coal-burning power plants in the United States are expected to be shut down in the next few years. While coal still provides about a third of the nation's power, just four years ago it was providing nearly half." - The New York Times

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