

# The Global Problems and Possible Solutions for

# Clean Energy

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——The Presence and Future of Clean  
Energy Usage in China and UK



# China---Background

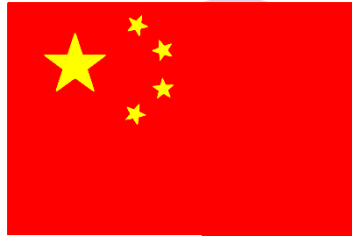


★To set up a civil sustainable development perception through the education and practice of scientific development in the power industry.

★Investment in climate change issues accounted for a large proportion of the Chinese Economy Stimulus package in 2008.

★The traditional fossil power market continues while development of renewables was strong in 2009.





# China

## ---Government Support



Nationwide launch of an energy saving and pollution reduction program.



Replacement of old power equipment with newer more efficient.



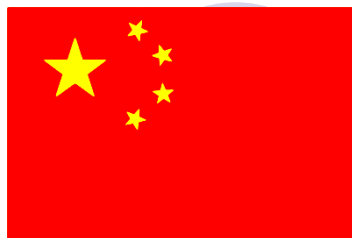
Strong control and development of the energy-intensive and high-polluting industries.



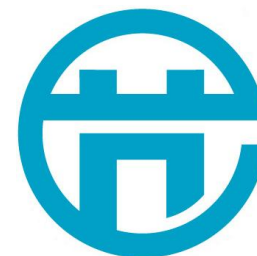
Encourage carbon off-setting through tree plantation



Continued investment and development of renewable energy.



# China---Social Act



Vehicle and home appliance replacement policy. Scrappage Scheme



Promotions to generate greater awareness to reduce plastic packaging use.



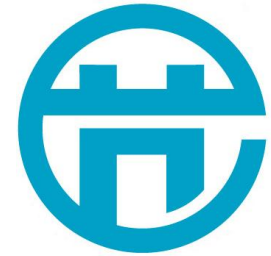
Develop renewable energy in rural areas. Home biogas.



Education of low energy use



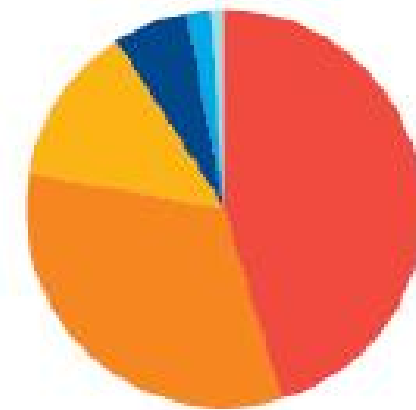
## UK---Background



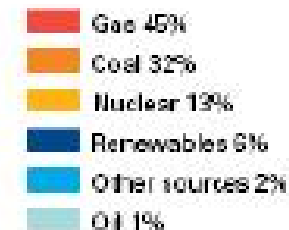
★The Climate Change Act was first created by UK parliament in 2008.

★The UK government made a number of energy saving and pollution reduction plans and set a number to target schedules

★The structure of the power generating in UK – 78% Fossil fuelled.



Today







# UK--- Government Support



Set up clear emissions targets



The government has taken a worldwide leading role



The targets and limits are used to set the path way for the development of the power generation companies in the UK



# UK---Social Act

- 1、Promote the idea of saving energy and reducing pollution in society.
- 2、Use of appropriate education
- 3、Promote low-power, low-carbon cars and home appliances.



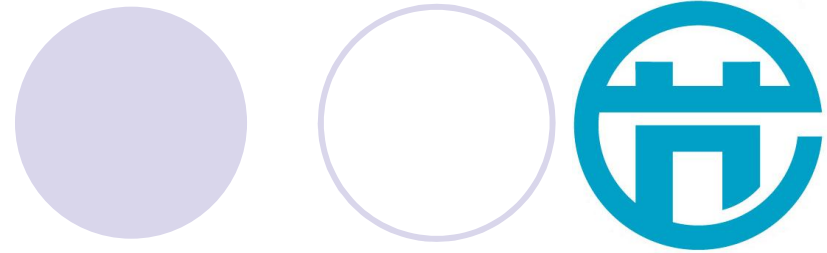
## What you can do

Every single one of us can help to tackle climate change and prepare for the impacts.

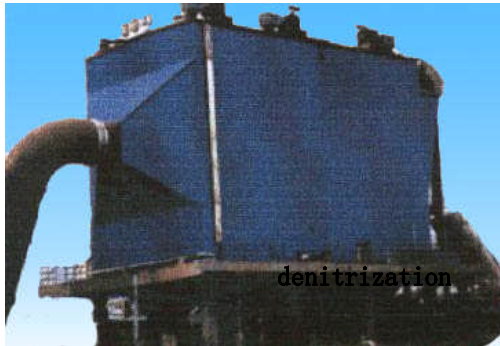
We all have an impact on the environment through our use of resources and burning fossil fuels for everyday activities such as driving cars and heating our homes. If we all try to make the most environmentally sustainable choices in our lives then we can make a real difference.

## Reduce your carbon footprint

# Technologies...



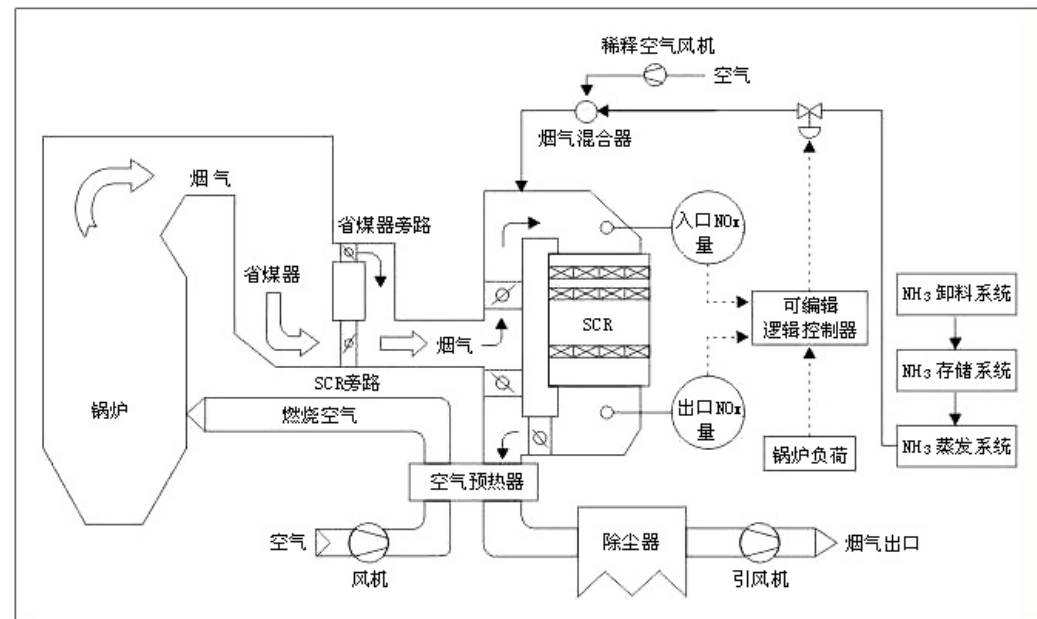
## Particulate removal



FGD



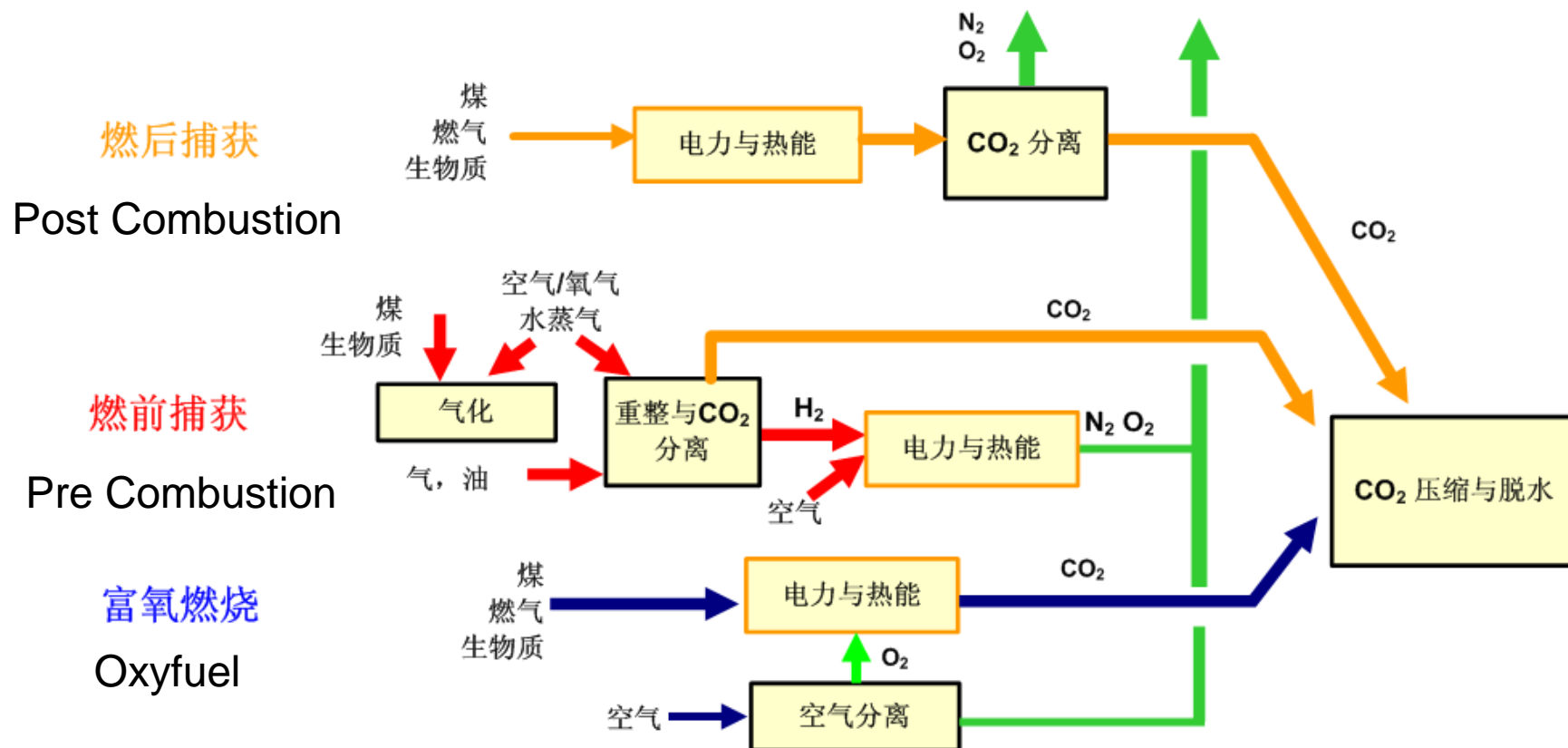
## De-NOx





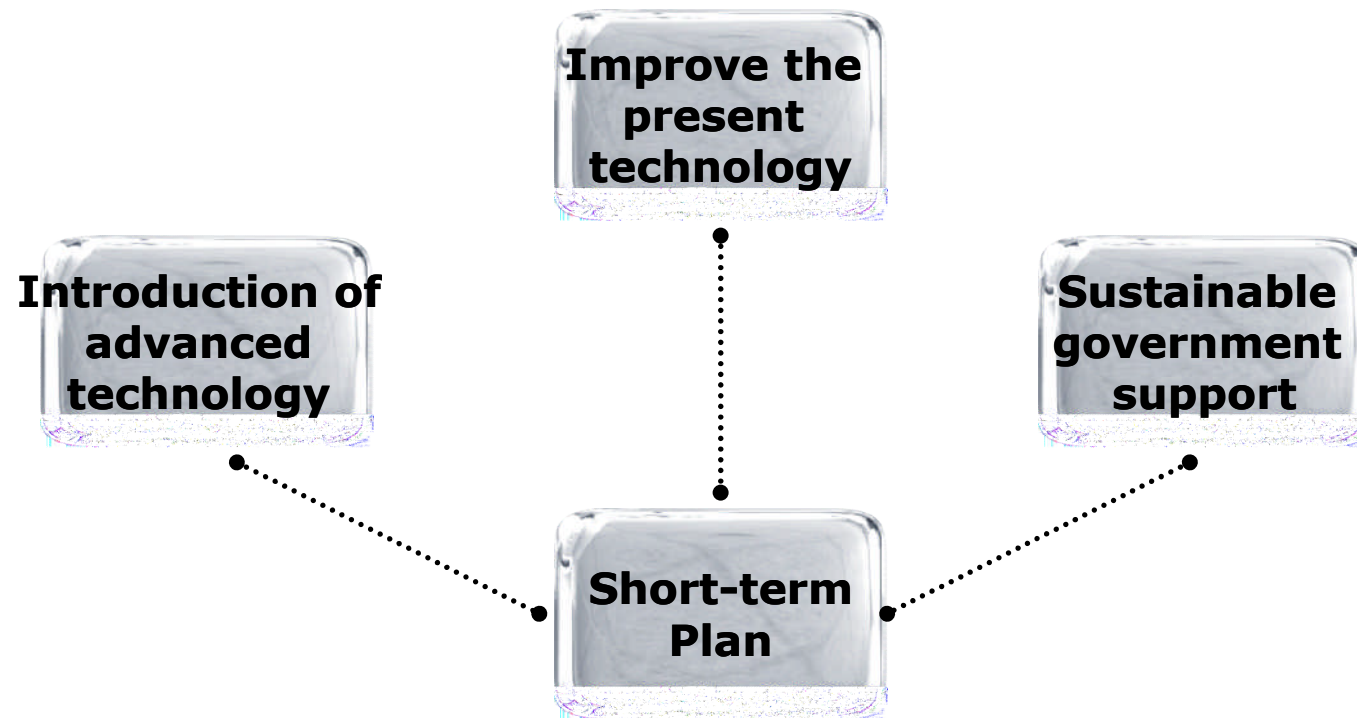
# Technologies...

## Technology map of three main carbon capture technologies

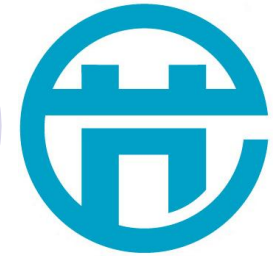
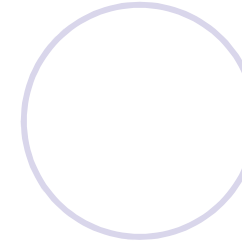
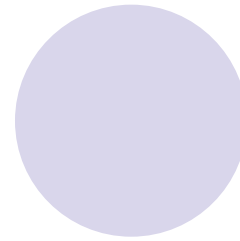


# IN THE FUTURE...

Short-term Plan(in 5 years):



# IN THE FUTURE...



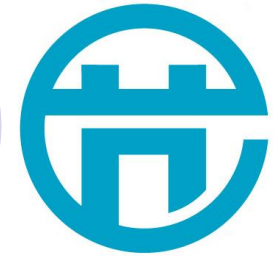
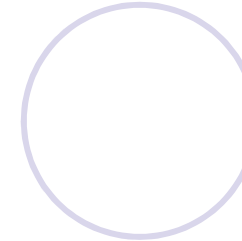
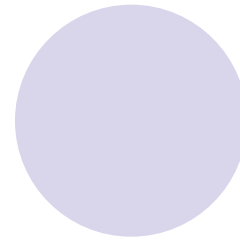
Mid-term Plan(in 15 years): develop the most suitable technology, and commercialise to achieve the energy-saving targets.

**Technology  
reaching maturity**

**More Practical  
use**

**Mid-term Plan**

# IN THE FUTURE



Long-term plan(in 50 years): 1. To establish a developed clean energy industry structure, 2. To realise the targeted economic sustainable development 3. Form an energy-saving societal view.

