

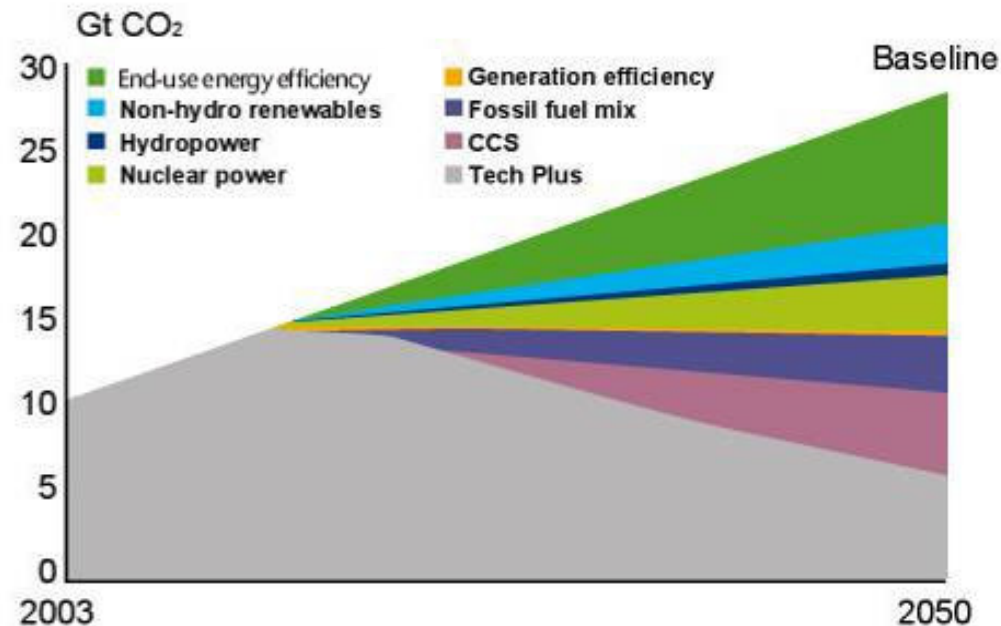
Post COP15 Briefing Energy Sector – Reducing Carbon Intensity

12 January 2010

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CLP Holdings Limited

Energy and Climate Change

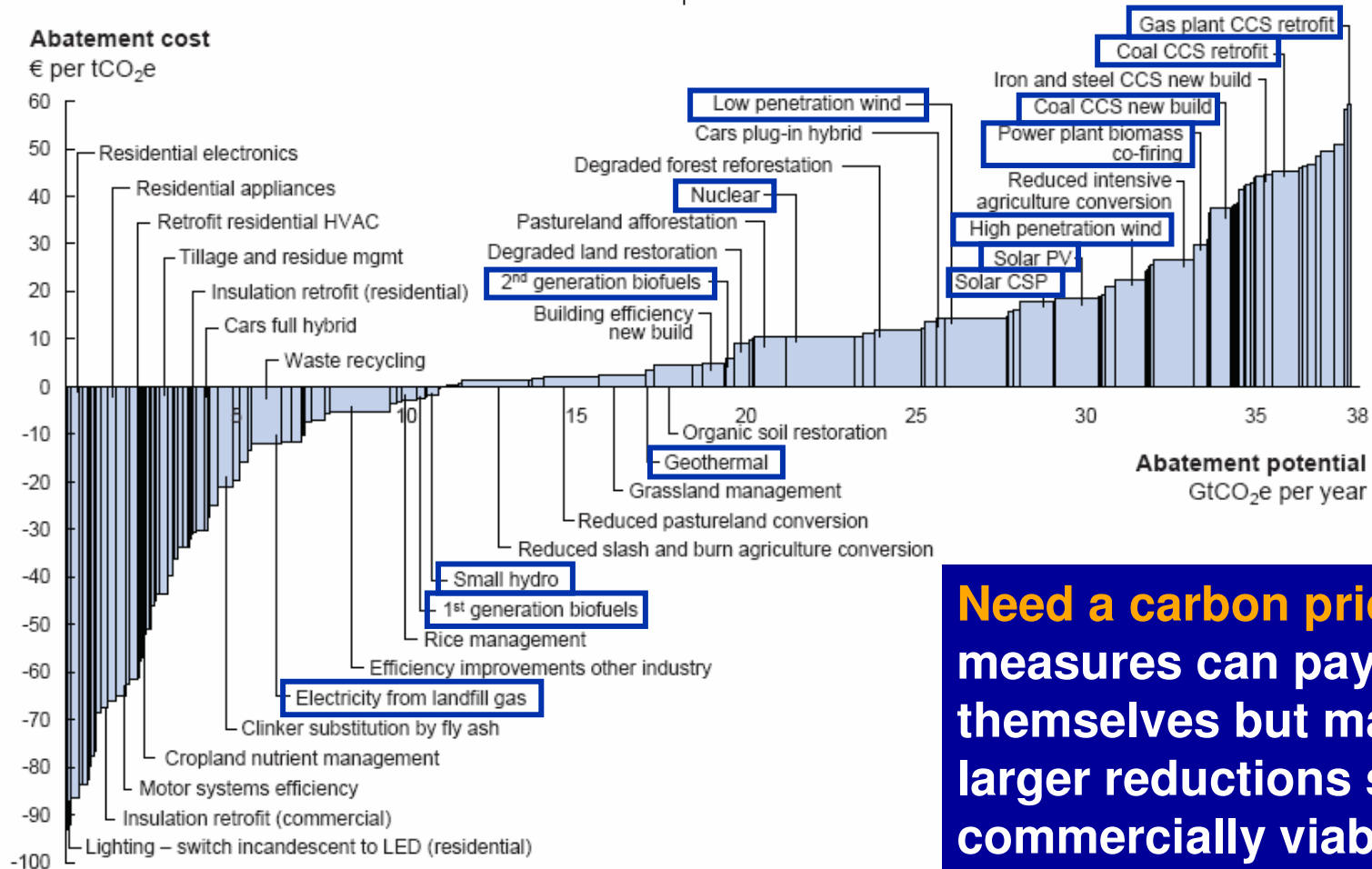
Carbon Dioxide Reduction Potential Within The Power Generation Sector By Contributing Factor
(adapted from IEA, 2006)



Power sector has the largest potential for carbon emission reductions – it contributes approximately 40% of total global carbon dioxide emissions from energy.

What Would It Cost?

Global GHG abatement cost curve beyond business-as-usual – 2030

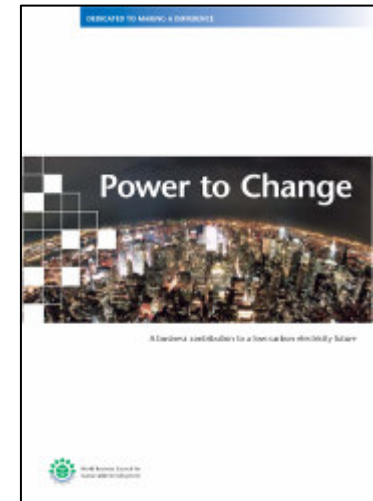


Need a carbon price – some measures can pay for themselves but many for the larger reductions still not commercially viable today

Note: The curve presents an estimate of the maximum potential of all technical GHG abatement measures below €60 per tCO₂e if each lever was pursued aggressively. It is not a forecast of what role different abatement measures and technologies will play.
 Source: Global GHG Abatement Cost Curve v2.0



Policy options for different reduction “wedges”



December 2007

December 2008

Powering Sustainable Solutions: Policies and measures

- End-use energy efficiency
- Hydropower
- Non-hydro renewables
- Nuclear power
- Natural gas
- Generation efficiency
- Advanced coal technologies
- Carbon capture and storage
- Transmission and distribution

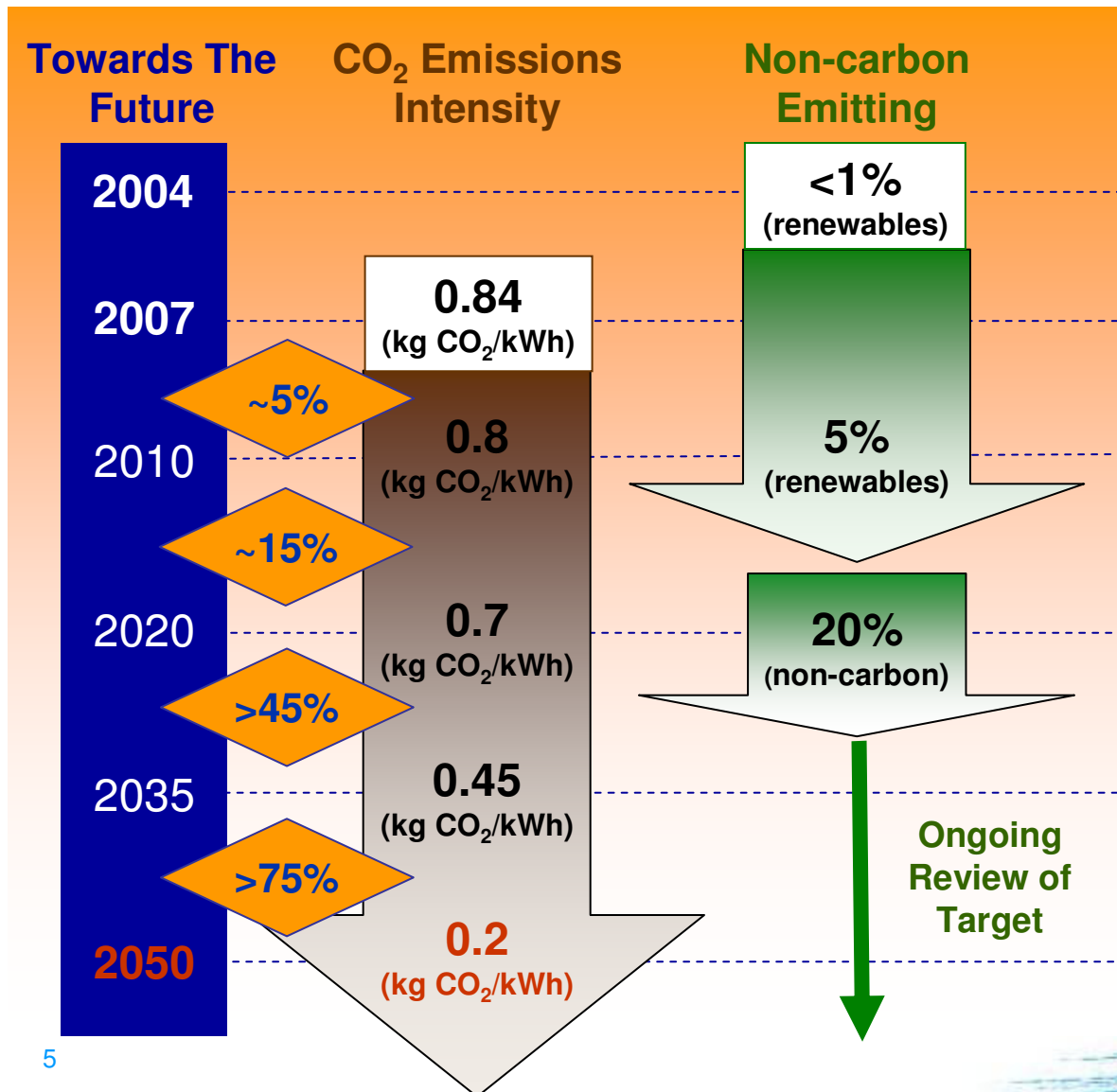
For each energy-related area:

- Current status of technology
- Challenges
- Domestic policies & measures to promote development and deployment
- International policies and measures to support cooperation and transfer of low-carbon technology in the electricity sector

Need new policies & funding to help advance all technology wedges – to encourage low carbon technologies & discourage carbon intensive ones









CLP's Climate Vision 2050



By

- Energy Efficiency & Conservation
- Renewable Energy
- Natural Gas
- Nuclear
- Clean Coal

Energy Road Map For Hong Kong for Next 10 Years

-  **Strengthening infrastructure links with the PRD**
-  **Using more gas for local power generation**
-  **Reducing the role of coal**
-  **Potential for importing more nuclear energy into HK**
-  **Promoting renewable energy sources**
-  **Reducing energy consumption**



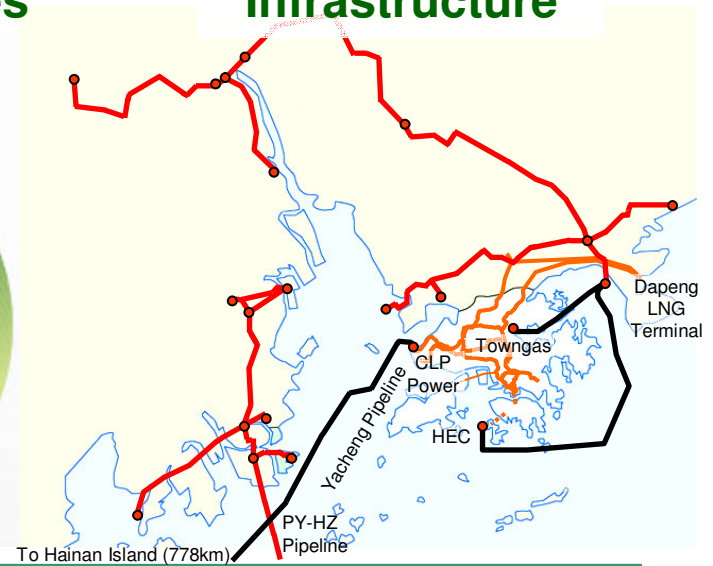
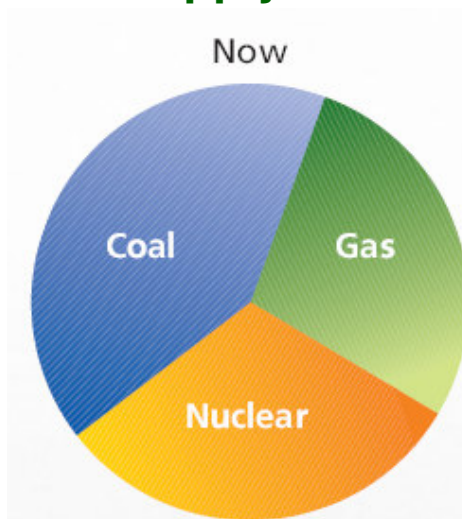
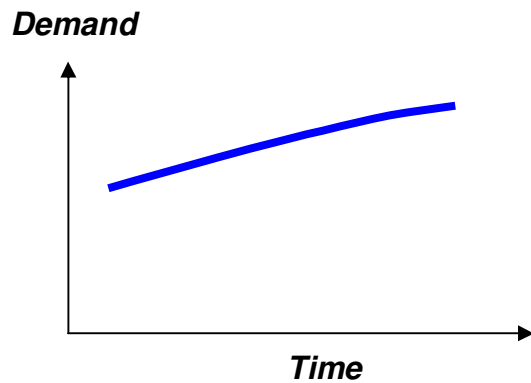
A Vision for the Future – How Things Might Look in 10 years

Electricity Demand

CLP Supply Sources

Infrastructure

Now



Future

