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• *Objective:* To achieve a better environment at least cost

- Examples of environmental problems
 - Climate change
 - Acid rain
 - Soil and river salinity
 - Over fishing



• Why do environmental problems exist?

- Environment is a public good
- Externalities exist
- A market failure exists

• Government intervention justified



Public Goods

"A good that, even if it is being consumed by one person, is still available for consumption by others"

- Atmosphere/Clean Air
- Rivers
- National Parks



Externalities

"Actions by one person or firm that affect the welfare of others without any action on the part of those affected"

- Loud music
- Air pollution
- Water pollution



Market Failure

Failure of the free market to price certain goods or outputs

- Sub-optimal resource allocation results
- e.g. Clean air
- Answer: Government intervention



Government intervention

To achieve a socially optimal level of public good (where MSC=MSB)

- Internalise externalities
- Policy approaches
 - Command & Control (Regulations, Standards)
 - Market Based (Taxes, Emissions trading)



FUTURES EXCHANGE

Market mechanisms

- Taxes
- Baseline & Credit
- Cap & Trade
 - US Sulfur Dioxide market
 - Kyoto Protocol
- SFE Carbon trading market



Carbon Trading Market

- The Kyoto Protocol
- Greenhouse targets set
- Emissions trading to meet targets
 Articles 3.3, 3.4, 6, 12 & 17
- What are potential implications
 - Costs, trade impacts, competitiveness, investment decisions, lending risk, equity valuations etc.

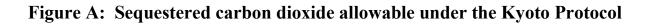


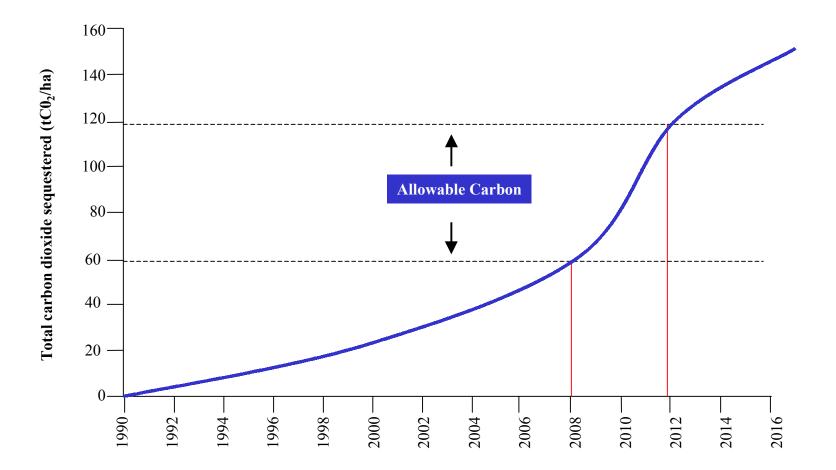
Carbon Trading Market

- A market for carbon exists
 - examples
- Kyoto risk management wanted
- SFE to launch carbon market
 in carbon sink credits
- There are risks & benefits



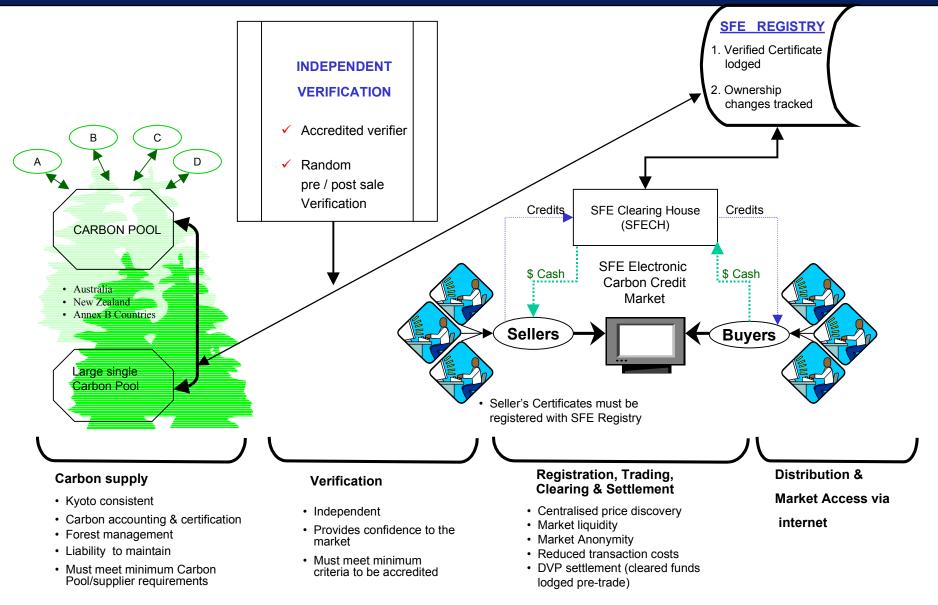
Kyoto Protocol Article 3.3







Carbon Trading Market





Benefits & Risks

- There are risks
- Reduce cost of meeting Kyoto
 - sinks are only part of the answer
- Other environmental benefits
- Price discovery
- Risk management



Related web sites

www.sfe.com.au

www.aetf.net.au

www.carbontrading.com.au

