The IMPACTS of CLIMATE CHANGE in the PEARL RIVER DELTA

Civic Exchange
The evidence is clear...
The evidence is clear...
Impacts in this region

Higher Temperatures  Erratic rainfall

Rising Sea Levels  More Intense typhoons
Looking back...

1979
Looking back...

1979

2004
Higher Temperatures

The graph shows the annual mean temperature anomaly (°C) from 1890 to 2099, with increasing trends and upper and lower limits. The data indicates a significant rise in temperatures, reaching an upper limit of 5.6°C by 2099.
Erratic Rainfall
More Intense Typhoons

Source: NOAA
Rising Sea Levels

TODAY’S MEAN SEA LEVEL
Rising Sea Levels
Rising Sea Levels

4M SEA LEVEL RISE
Storm Surge
What if the icecaps melt?
“Climate change is not by any means just an issue about the environment. It is a business issue.”

Rt Hon. Margaret Beckett MP
POTENTIAL THREATS TO SHAREHOLDER VALUE

• PHYSICAL RISK
  • Regulatory risk
  • Litigation risk
  • Competitiveness risk
  • Reputational risk
DISRUPTION IS BAD FOR BUSINESS

- Facility operation disrupted
- Power supply interrupted
- Delivery of components halted
- Export of finished goods delayed
POTENTIAL IMPACTS ON BUSINESS

• Lower revenues

• Higher operating costs

• Higher taxation

• Decreased FDI

• Negative for shareholder value
Climate change issue identification

Information gathering

Adaptation strategies

Vulnerability assessment

Climate scenarios

Impacts assessments

Climate change policy

Climate change application

Climate change research

Identify Problem

Establish objectives

Identify options

Options appraisal

Risk analysis

Decision (preferred option)

Implementation

Monitoring