

ENERGY USERS SEMINAR



ENERGY RESILIENCE

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RISK ASSESSMENT

**CONTINGENCY
PLANNING**

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What can go wrong.....

December 2008 *Rossendale, Lancashire*
Loss of gas supply to approximately 20000 consumers.

August 2004 *Ghislenghien, Belgium*
Failure of high-pressure pipeline, 21 people killed.

October 1998 *Victoria State, Australia*
Explosion at processing plant, loss of supply to 1.4M.



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What can go wrong.....



August/September 2003

- London *protection failure*
- New York *cascade failure*
- Italy *tree growth*

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What can go wrong.....

- **Failure of local supply networks**
- **Damage to electricity supply.**
- **Damage to gas services.**



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Contingency arrangements.....

There are arrangements in place to protect supplies to critical infrastructure .

Gas priority consumers are at the bottom of the list of sites subject to firm load shedding.

Electricity priority consumers are protected against rota disconnection.

Only effective in a limited number of scenarios.

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Contingency arrangements.....

- Dual circuits supplying the site.
- Back-up generation.
- Demand reduction measures.
- Shut-down and relocation of production.
- Liaison with the local electricity network operator.



Cost/benefit analysis.

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Contingency arrangements.....

- Dual service connections.
- Alternative fuel supplies (dual-fuel).
- On-site demand reduction measures.
- Shut-down and relocation of production.
- Liaison with the local gas network operator.



Cost/benefit analysis.

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Further information.....

Lead Government Department



Department of Communications, Energy and Natural Resources
Roinn Cumarsáide, Fuinnimh agus Acmhainní Nádurtha



Department of
**Enterprise, Trade
and Investment**
www.detini.gov.uk

Regulators



Professional Organisations



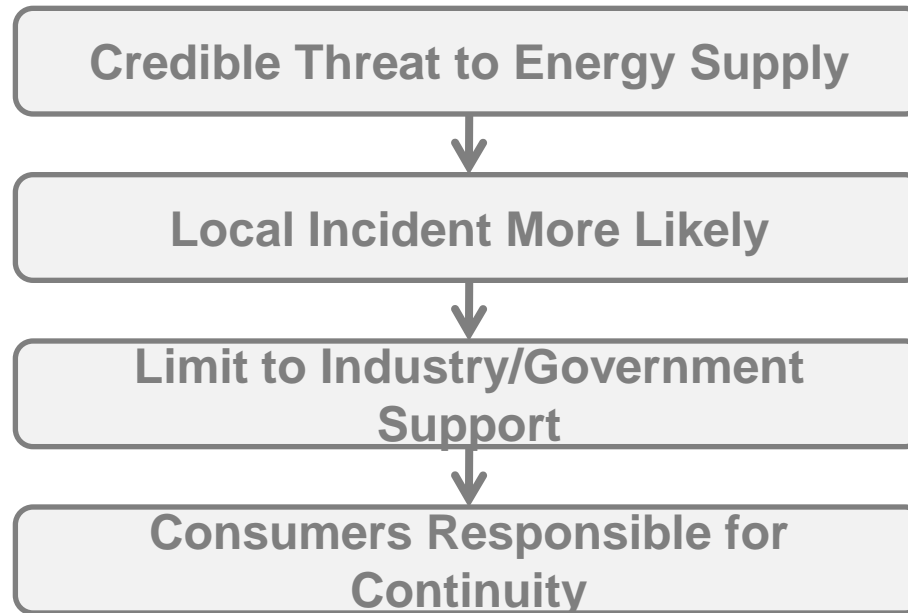
IGE/GL/9

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Conclusions.....



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Conclusions.....

- Carry out risk assessment.
- Implement contingency arrangements.
- Work with local energy network operators.
- Seek advice and guidance from regulators/government.

Regularly test and review contingency arrangements.

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