

# **Power Failure?**

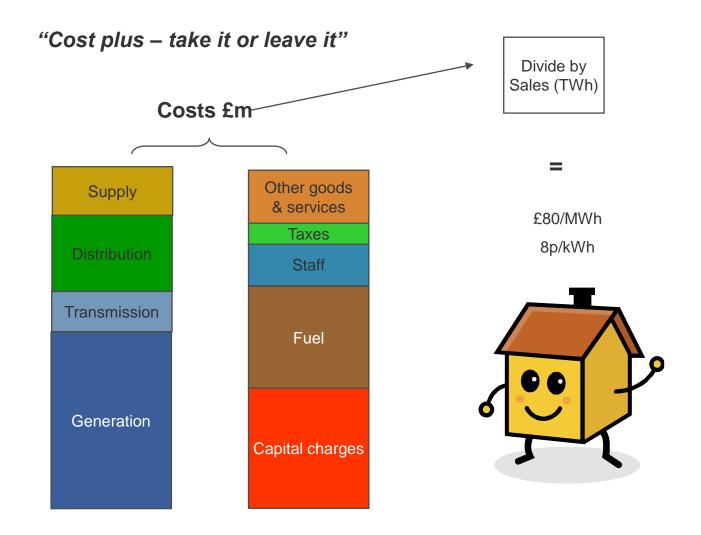
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## Agenda

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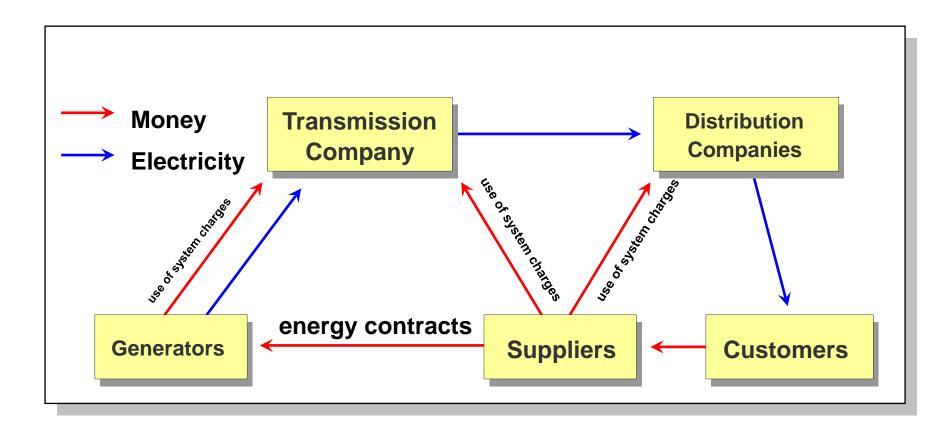
## **Nationalised Monopolies' Trading Arrangements**



### Led to

- Gold Plating engineers' playground
- Inefficiency
- Corruption?

### 1989 Act - Competition wherever possible



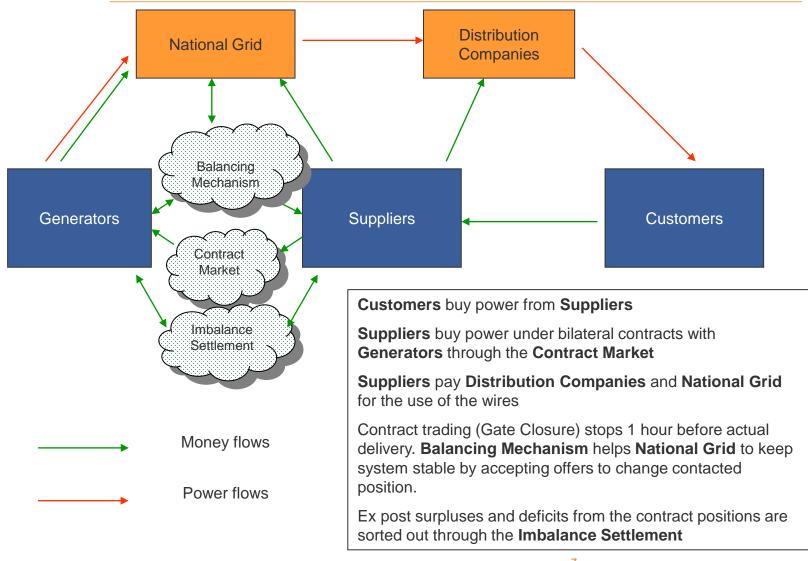
"The market should decide what, when and where new generation is built "

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## How to trade power?

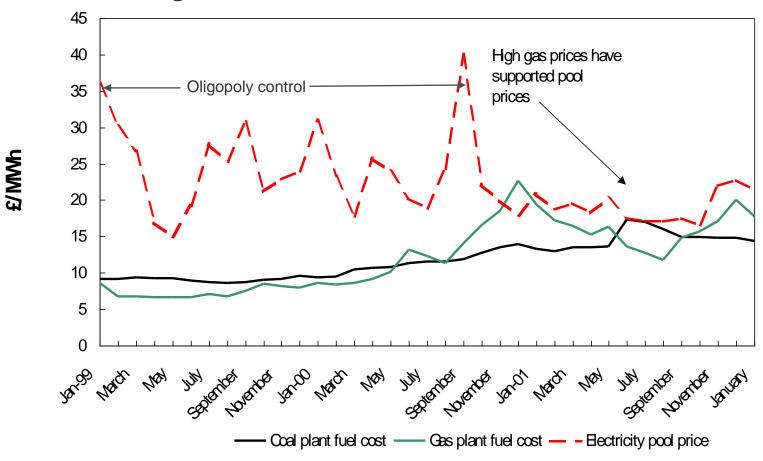
- "Impossible" Lord Marshall 1988
- "No problem" Prof Caramanlis MIT 1985

### **British power market structure:**

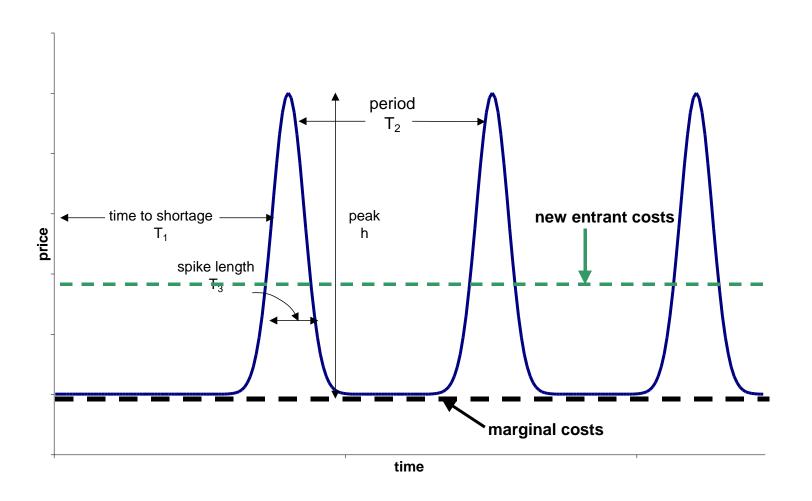


#### **Transition of "ordered" to competitive market**

#### **England & Wales Wholesale Power Market**



## Price behaviour in competitive markets?



#### **Prices in competitive markets**

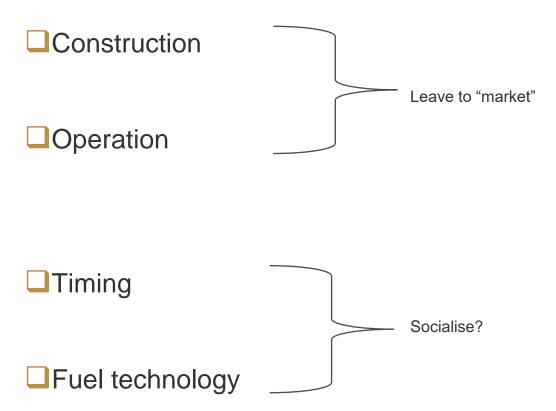
#### Oligolpoly

- Likely to be stable at or just below new entrant costs
- ...but probably unstable.

#### Volatile

- When demand<< supply (most of the time), at marginal costs of production
- Soaring when demand ~ supply, then collapsing when plant built
- Who, in their right mind, would invest?
- Since 2010, all new plant first secured a long- term contract.
  - Storr, Capacity, CFDs
- So much for the market making investment decisions

## Risks of generation:



Currently delivered through the LCCC and ESC

#### Two issues remain

#### Governance

Who oversees the investment decisions?

### Efficiency

- ▶ Is the reliance on Contract for Differences sensible?
  - Will generators be confident of matching the reference price?

#### Back to the future?

#### Central Agency

- Purchases all power under long term competitive contracts
- Capacity commissioning and retirement decisions independent of Government, consistent with Law
- Sells power to unregulated Suppliers by a published tariff & purchases from large embedded generation
- Would enjoy a very low cost of capital

#### Generators

- ▶ Rewarded for providing capacity and efficiency. Market fuel prices are "passed through"
- NOT rewarded for trading

#### Suppliers

 Rewarded for efficient & accurate billing, customer management – but NOT trading

### **Questions?**