Water Resource Management Planning in the UK.

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I plan to….

- Remind you of our resilience duty
- Give some views on the recent UK Water Report
- Set out the challenges (as I see them)
- Hopefully stimulate your thinking.
22 Primary duty to secure resilience

(a) to secure the long-term resilience of water undertakers’ supply systems and sewerage undertakers’ sewerage systems as regards environmental pressures, population growth and changes in consumer behaviour, and

(b) to secure that undertakers take steps for the purpose of enabling them to meet, in the long term, the need for the supply of water and the provision of sewerage services to consumers,

including by promoting—

(i) appropriate long-term planning and investment by relevant undertakers, and

(ii) the taking by them of a range of measures to manage water resources in sustainable ways, and to increase efficiency in the use of water and reduce demand for water so as to reduce pressure on water resources.
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A Range of Measures

- Customer Engagement
- Transfers and Trading
- Water Resources Market
- Water Efficiency
- New Sources
- Adaptive Plans
- Leakage
- Demand Management
Rising population but falling water demand in England and Wales (2000 -2015)

It's not just about new water resources – demand management and reducing leakage matter too.

Population and distribution input in England since 2000

- Distribution input (Ml/day) England
- Population England
Increase Efficiency

- Water Resources Market – New Entrant
- Water Trading
- Enhanced Status Business Plans
- ODIs
- Cost Comparison
- Policy
Why Water Resources

**Changing Demand** –
- Population growth,
- Climate Change
- Change in Demographics
- Need for improved resilience

**Add Value** - stimulate conversations between potential buyers who have supply-demand issues

**Bilateral Market for Non Households**
- encourage new entrants
- Stimulate markets with correct access pricing and incentive payments

**Achieve Secure Supplies** -
- environmentally sustainable, resilient and affordable
>39,000 Abstraction Licences have been issued by the EA

Total Licenced amount >93,482 MI/D

Distribution Input (2014) 17,302 MI/D

36% for Power Generation
25% for Industry /Agriculture
39% for Public Water Supply

Boreholes: ~32%
Bulk supplies: ‘water trades’ ~4%.
Reservoirs: ~24%.
Rivers: ~40%.

Some potential Entrants
-Canals and Rivers Trust have >70 Reservoirs
-Coal Authority Discharges ~100 Billion litres/annum
-Farmers, Landowners, Industry...

Leakage reduction and Demand Management could offset the need for new Water Resources

615 dams and impounding reservoirs
2,543 intake and source pumping stations
1,750 km of water mains transfer raw water between sites
Increase Efficiency

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Innovation

Level of innovation:

Company Performance:

Business as usual  Business Improvement  Business Transformation  Revolution

Most “Innovation”
**Water Resources – Key Facts**

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