Presentation to
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NI Water
Investing for Our Customers

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We have invested £1.5 billion in Northern Ireland’s water and sewerage infrastructure since our formation in 2007/08
NI Water - At a Glance

- 23 Impounding reservoirs
- 25 Water treatment works
- 300 Service reservoirs
- 26,700 km of water mains
- 1,270 + Pumping stations
- 15,250 km of sewers
- 1,034 Wastewater treatment works
- 57 Sludge management centres
Belfast Sewers Project
Assets & Input Locations-
Providing part of the solution
(completed 2010)

Aims:
• Restoring capacity to 1:30yr RP
• Repair of sewers
• Reducing flooding & overflows
Successful Capital Investment for Customers and the Environment since 2007

NI Water has delivered £1.5 billion in capital investment:

- £160m Belfast Sewers Project - Including the Tunnel
- £100m+ Water Mains Rehabilitation Project
- Improvements in our local environment and prevent EU Infraction - such as:
  - £45m North Coast Wastewater Project
  - £23m Wastewater Treatment Works upgrade at Antrim
  - £13.5m wastewater facility in Enniskillen
- Reduced out of sewer flooding affecting customers homes
- Reduced pollution incidents to the environment
- Reduced risks of low water pressure
- Reduced water supply interruptions.
- Best ever drinking water quality and wastewater compliance
Drinking Water Quality – 2004 - 2013

(MZC%)
Wastewater Treatment – Discharge Standard Compliance 2001 – 2013

Compliance (%)

Time (Year)

98.04%
91.98%

BLUE % No. Compliant Works

RED – % PE served by compliant works

Discharge Standard Compliance

Population Equivalent (PE) Served by a Compliant Works
Barriers to more efficient Capital Delivery

- Lack of End of Year Flexibility
- Limited opportunity for Long Term Planning
- Constrains and limitations for delivery
A = PC13 BP Period (2 years)
B = PC15 BP Period (6 years)
C = DRD Long-Term Water Strategy Period (24 years)
Our Strategy for NI Water
Our Aims for Capital Investment

Cleaner
We have already achieved the best ever drinking water quality and wastewater compliance in NI. We will maintain these high standards and improve them where possible. This is what our customers want.

Greener
This is our most sustainable plan ever. We will invest in technologies which generate less carbon and plans which protect the environment. This is what the environment needs.

Safer
We want the environment to be safe from harmful discharges and our staff to be safe at work. We will invest in reducing flooding from our sewers and maintain our record as a safe utility. This is what our colleagues and community deserve.

Leaner
We have less capital to spend, so we have to invest even more wisely to maintain services to customers. We have consulted closely with customers, regulators and policy makers to deliver an efficient and effective plan. This is what our stakeholders want.
PC15: the Scale of Capital Investment and Constraints

A: £2.8bn

A: The sum necessary to address the known current capital investment drivers by the end of the PC15 period.

B: £1.7bn

B: The sum which could be efficiently invested by NI Water by the end of PC15 period (subject to completion of studies & appraisals).

C: £990m

C: The constrained sum available in the draft PC15 Social & Environmental Guidance, as allocated in NI Water’s PC15 Business Plan.

Sums are stated in nominal prices.
Green line represents NI Water's bottom up analysis of what could be efficiently invested in the PC15 period (£1.4bn), with the projection from the year 2021/22 smoothed.

Red line is based on PE capital budget for the PC15 period and estimates beyond 2021.
Key Outputs for PC15

Water
- 816km of water main rehabilitation / replacement (3% in 6 yrs)
- 2 nominated trunk main schemes
- 9 water treatment works upgrade schemes

Wastewater
- 74km of new and upgraded sewers (0.5% in 6 years)
- Removal of 54 unsatisfactory sewer discharges (pollution)
- 19 large WwTW upgrades (81 deferred)
- Programme of upgrades to 45 small rural WwTWs

But there are significant constraints:
Rural Wastewater Treatment Investment Programme
(Constrained from £22.5m to £12m – will deliver 45 upgrades)
Large Wastewater Treatment Works Programme
(£71.3m for 19 new start upgrades)
Large Wastewater Treatment Works Programme
(£155m* deferred for 81 upgrades)

*Sum excludes the investment necessary for Belfast WWTW, SFW and rBWD
Capital Allocation
Key Constraints for PC15 for NI Water

• Water:
  • Lough Bradan WTW Phase 2 deferred - c£8.5m
  • Trunk Mains – Glencuil to Cabragh and Killyhevlin to Lough Bradan deferred - c£13.4m
  • Water mains rehab - reduced by £60m
  • Water supply capacity– reduced by £15m (to focus on maintenance)

• Wastewater:
  • Sewerage maintenance, Out of Sewer Flooding and Pollution reduced by £54m
  • Number of new WWTWs reduced and less capital maintenance

• Management & General (vehicles etc) funding reduced by £10m

• Overall Capital Maintenance down from average of £96m to £83m p/a
The PC15 Business Plan Sets Out the Scale of Total Investment Needs: An Appendix sets out that Investment of £0.75bn is Required for Belfast Drainage & Wastewater Treatment- This is not funded.

Key drivers, :
1) Economic development (WWTW compliance with existing standard)
2) Flooding
3) EU UWWTD
4) EU WFD

This initiated the DRD paper to Executive
Questions