Opportunities for Innovation in the Water Industry

SGCP13 Conference www.cir-strategy.com/events 5th June2013

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LOVE EVERY DROP. PUT WATER AT THE HEART V OF A WHOLE NEW WAY OF LIVING.



Why are we taking action?



Climate Change

Background to Anglian Water

- 27,500 km² largest WASC
- 3,500 employees
- flat terrain slow running rivers
- agricultural pollution
- fast growing region
- mainly rural
- driest region in UK
- Long coastline
- Over 1000 Sewage Treatment Works





We have set ourselves 10 goals, backed up by over 100 commitments and measures to help us get it right.

We've included just some of our commitments in the following pages. There's more information on our website: www.anglianwater.co.uk/loveeverydrop



Innovation – A Long Term View





Ideas and Events Exploitation

- 350 Companies engaged
- 120 ideas received on all parts of the value chain
- 5 ideas exploited in the business
- Some submissions are currently in trial
- Themed Events
 - Renewable Energy, Drought, European Brokerage Event, etc...





Improve what we've got !

Activated Sludge





Trickling Filters

Water Meters – What Next ?

Our meters are changing...

- Current penetration around 70%
- Opportunities for Smart Metering
- A multi-utility approach?
- Trials underway:-
 - •11,000 IHDs (with GEO, internal meters only)
 - Refuse trucks in Colchester





Reducing Cost & Carbon



Conventional in-situ reinforced concrete

Conventional techniques are labour and materials intensive.

Structured plastic with conventional bedding

Lower cost solution with lower embodied carbon, but still requires bedding and surround to be craned into position. 34% cost saving 39% reduction in embodied carbon





Precast concrete

Precast concrete units provide a more cost effective solution than plastic for certain ground conditions. 28% cost saving 19% reduction in embodied carbon (50% reduction with cement replacement)

Structured plastic in curved trench

A specially fabricated bucket enables a curved-bottom trench to be dug, making significant savings on imported bedding and surround materials. 38% cost saving 50% reduction in embodied carbon (55% reduction with SMR)



Low Carbon Solution – Natural Approaches

Use of low energy solutions to meet environmental requirements



Wastewater – Maximising Resources



