

THE UK'S CAPABILITY FOR MANAGING LEAKAGE: POLICY GOALS AND TECHNOLOGICAL INNOVATIONS

Background Notes

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Key Issues for Discussion

The Water Companies

Challenges and Drivers

Leakage Performance and Leakage Targets

Technology Innovation

Aiming for zero leakage

Water Companies of England and Wales



Water Companies of England and Wales

Water and
Wastewater

Anglian Water
Northumbrian Water
Southern Water
Severn Trent Water
South West Water
Thames Water
United Utilities Water
Dŵr Cymru
Wessex Water
Yorkshire Water

Water
only

Affinity Water
Bristol Water
Bournemouth Water
Dee Valley Water
Northumbrian Water (Essex & Suffolk)
Portsmouth Water
SES Water
South East Water
South Staffs & Cambridge Water
South Staffs & Cambridge Water (Cambridge region)

Scottish Water and Northern Ireland Water

Public Companies

Separate Regulatory Bodies to England and Wales



Scottish Water and N Ireland Water

Ofwat does not regulate Scottish Water or NI Water. They are publicly owned and have their own regulators

Scottish Water was set up in 2002, when leakage was at an estimated 1,132 MI/day. In 2017-18 it was 492 MI/day, a reduction of 57% (target was <500 MI/day by 2019-20).

Northern Ireland Water's leakage has fallen by 43% since 2001.

Leakage and Customer Use

345,034 km of water pipes (mains) owned by water companies

28 million connections

3,170 MI/day total leakage from water networks

All companies have targets to reduce leakage each year

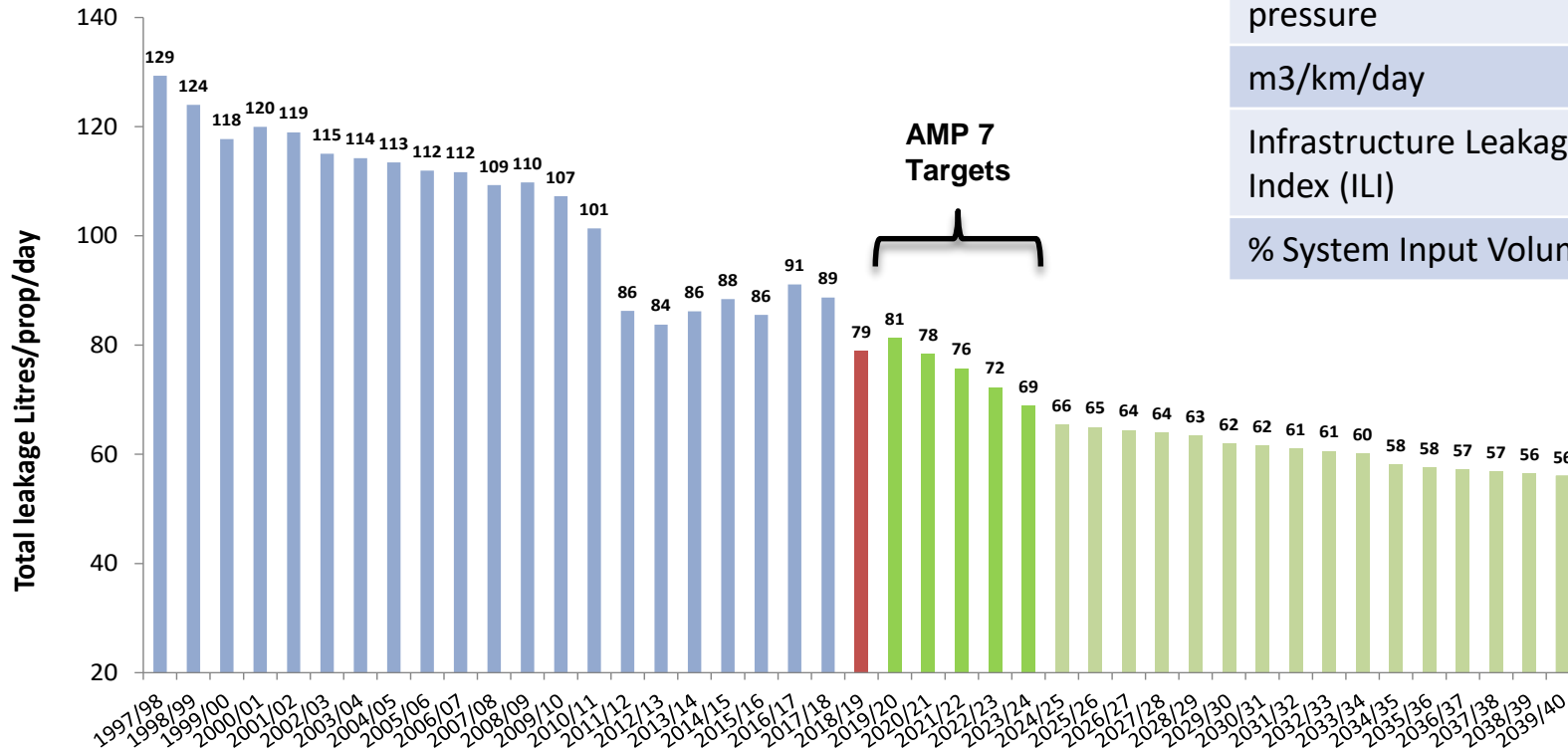
143 litres per head per day (l/h/d) customer use

All companies have targets to reduce customer use as well as leakage (Germany: 121 l/h/d, Anglian Water ('shop window'): 80 l/h/d

Source: Water UK; England and Wales, Apr 2018 - Mar 2019

Leakage Performance

One water company's results for a range of performance indicators



Distribution system Real losses – Performance (2018/19)

Litres/Service Connection/day	64
Litres/Service Connection/Day/Metre pressure	1.5
m3/km/day	4.3
Infrastructure Leakage Index (ILI)	1.4
% System Input Volume	13.3

2017 -2018 Leakage Performance (Water and Waste Water)

Company Name	Commitment (MI/day) 2017-2018	Commitment (MI/day) 2019-2020	Actual Performance (MI/day) 2017-18
Anglian Water	192	192	183
Northumbrian Water	137	137	137
Southern Water	-	87	89
Severn Trent Water	434	424	443
South West Water	84	84	83
Thames Water	620	606	695
United Utilities Water	-	-	454
Dŵr Cymru	173	169	173
Wessex Water	68	67	68
Yorkshire Water	297	287	300

2017 -2018 Leakage Performance (Water Only)

Company Name	Commitment (MI/day) 2017-2018	Commitment (MI/day) 2019-2020	Actual Performance (MI/day) 2017-18
Affinity Water	173	162	173
Bristol Water	45	43	50
Bournemouth Water	-	20	19
Dee Valley Water	91	91	93
Northumbrian Water (Essex &Suffolk)	66	66	66
Portsmouth Water	30	30	33
SES Water	24	24	24
South East Water	90	88	88
South Staffs & Cambridge Water	71	71	72
South Staffs & Cambridge Water (Cambridge region)	14	14	14