OUTPUT MONITORING GROUP

DRAFT OUTPUT MONITORING REPORT: Quarter 3 2017-18

1. Introduction

This document summarises what has been achieved for customers against Scottish Water's Delivery Plan for the 2015-21 period and confirms the position up to the end of December 2017 (Quarter 3 2017/18). It has been prepared for the Output Monitoring Group (OMG) which was set up by Ministers to monitor and report on the delivery of their <u>Objectives</u>.

The OMG comprises the main stakeholders in Scotland's water industry: Scottish Government, Scottish Water, Citizens Advice Scotland, Scottish Public Services Ombudsman and the regulators (the Water Industry Commission for Scotland, the Scottish Environment Protection Agency and the Drinking Water Quality Regulator). It is chaired by Scottish Government and operates under a Terms of Reference agreed by Ministers.

2. What We Monitor

Each quarter the OMG assesses Scottish Water's progress with the delivery of outputs using a metric, Overall Measure of Delivery (OMD), to measure Scottish Water's progress against targets agreed in its Delivery Plan.

Delivery progress is also monitored against the outputs agreed for individual programmes in Scottish Water's Delivery Plan, as shown in the following Appendices:

- Appendix A: Providing continuous high quality drinking water (includes drinking water quality, reliability and security of supply).
- Appendix B: Protecting and enhancing the environment (includes flood risk management).
- Appendix C: Supporting economic development (includes climate change and improving the long term cost of service).

Each Appendix highlights where a programme area is ahead or behind target; and, if behind, the reason and remedial actions being taken by Scottish Water. The year end status for each programme area has been measured against Scottish Water's Delivery Plan update approved by the Scottish Government in March 2017.

The Output Monitoring Group also monitors Scottish Water's progress in completing those projects due but not delivered by 31 March 2015 so that the benefits to customers can be delivered as quickly as possible.

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3. Key points

The key points to report on Scottish Water's output delivery in the period up to the end of December 2017 (Quarter 3 2017/18) are:

- The overall measure of delivery (OMD) position was 132 points in Quarter 3, against a December 2017 target of 115 points. This is an increase of 10 points from the Quarter 2 2017/18 position of 122 points. As we approach the half way point of the regulatory period over half of the investment projects are on site. There remains considerable on the ground delivery over the coming years to reach internal acceptance.
- Providing continuous high quality drinking water: of the 10 output programmes in this category, 10 are forecast to be on or ahead of the year-end target at the end of Quarter 3. As reported previously, 3 key projects at Amlaird, Bradan and Tullich have missed their regulatory undertakings. Scottish Water is working hard to achieve the regulatory enforcement date and to minimise the delays in providing improved drinking water quality to customers from the works at Bradan and Tullich. All projects in the drinking water programme are being managed closely and reviewed with the DWQR.
- Protecting and enhancing the environment: of the 10 output programmes in this
 category, 9 are forecast to be on or ahead of the year-end target at the end of
 Quarter 3. The one area that is behind plan is to allow Scottish Water to more
 effectively manage the resilience of the supply of drinking water to customers from
 the Amlaird system while work on the Ayrshire Resilience Scheme is progressed.
- Supporting economic development: of the 6 output programmes in this category, 2 were ahead of target and 4 underway but demand driven at the end of Quarter 3.
- Projects due to have been completed by March 2015: by the end of Quarter 3
 Scottish Water had completed 33 of the 37 projects that were outstanding at March
 2015. Scottish Water is forecasting all projects to complete by 2019/20.

4. Overall Measure of Delivery (OMD)

The <u>Overall Measure of Delivery</u> provides a high level measurement of Scottish Water's progress against its Delivery Plan; it assesses the progress of the investment outputs monitored by OMG across each of the five key delivery milestones, combining this information to give an overall score. Progress with delivering late projects from previous investment periods and demand led schemes (such as new capacity to support economic development) are not included in the OMD.

At the beginning of the programme the OMD score starts at zero and at 31 March 2021 should reach 250^a points confirming that all milestones and outputs due to be delivered by that date have been delivered. At the end of December 2017 Scottish Water's OMD position was 132 points, against an OMD target of 115 points. This is an increase of 10 points from the Quarter 2 2017/18 position of 122 points as illustrated in Figure 1.

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^a 19 points relate to outputs that will be confirmed in the investment review 2018 (IR18).

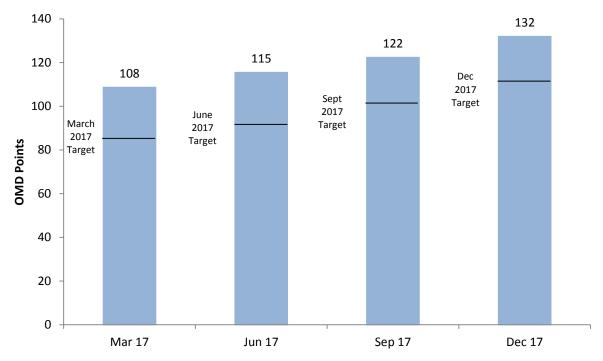


Figure 1 – Overall Measure of Delivery to Quarter 3 2017-18

5. Progress against milestones

To demonstrate the progress being made through each of the 5 programme milestones monitored by OMG, Figure 2 below shows the cumulative % budget through each milestone for the reported programmes. Of particular note is that 59% have started on site.

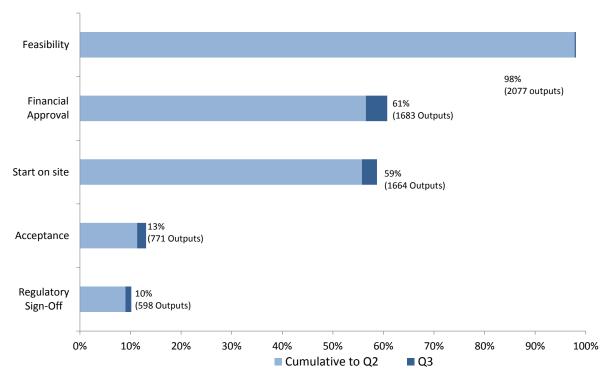


Figure 2 - Reported output programmes - cumulative % budget through each milestone

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6. Projects due but not delivered by 31 March 2015

Scottish Water started the 2015-21 period with 37 projects from the previous programme which were due but not completed by March 2015. Scottish Water has achieved regulatory sign-off for 33 of these projects at the end of December 2017. Scottish Water remains focussed on delivering the projects due to have been completed by March 2015.

	2017/18	2018/19	2019/20	2020/21
Planned completion	31 - 33	33 - 36	36	37
Latest forecast completion range	33 - 34	35 - 36	37	37

7. Conclusion

The OMG notes the good progress made to date with the delivery of outputs required by Ministers during the 2015-21 regulatory period, as measured through the Overall Measure of Delivery and the individual programme milestones. It notes that there are a small number of projects for which emerging issues particularly in the drinking water quality programme are presenting challenges to delivery. On the environment programme, improvements to meet the requirements of the Water Framework Directive are forecast to be behind Scottish Water's Delivery plan at the year-end to allow Scottish Water to more effectively manage the resilience of the supply of drinking water to customers.

Ministers have stressed to Scottish Water the importance of maintaining and achieving the milestones as agreed in Scottish Water's Delivery Plan.

RAG Status

The following colour coding is applied to the forecast in the output delivery tables (Appendices A to C), using the definitions outlined below:

Red	Progress is behind target and there is no prospect of recovery over the year
Amber	At risk of not delivering the output within the year
Green	On or ahead of programme, or if off track will recover within the year
Blue	Output complete

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Appendix A: Providing continuous high quality drinking water

Scottish Water is undertaking work associated with the 10 programme areas in the table below.

Objective	Quarterly monitored programme areas	Q3 2017/18 Actual	2017/18 Year end Target	2017/18 Year end Forecast	Total number of outputs over the regulatory period
	Number of water treatment works improved	1	4	4	27
	Number of zones made compliant with iron & manganese standards	3	0	12	88
Drinking water	Number of improvements to reliability of supply (catchments and treatment)	6	4	8	47
quality and reliability	Number of improvements to reliability of supply (networks and storage)	13	9	16	82
	Distribution mains cleaned (km)	67	93	93	5,928
	Number of water quality etc studies to inform future periods	138	124	256	345
	2010-15 outputs planned to complete in the 2015-21 period	7	6	8	22
	Water supply resilience strategy and improvements made	8	6	9	18
Drinking water security of	Number of zones with improved security of supply (SOSI)	1	1	1	10
supply	Number of security measures and improvements to the infrastructure of critical reservoirs	176	118	246	689
Total		353	272	560	1,328 ^b

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Excludes 5,928km of mains cleaning as this programme area is measured on a per km basis rather than on the number of outputs or improvements made.

Appendix B: Protecting and enhancing the environment

Scottish Water is undertaking work associated with the 10 programme areas in the table below.

Objective	Quarterly monitored programme areas	Q3 2017/18 Actual	2017/18 Year end Target	2017/18 Year end Forecast	Total number of outputs over the regulatory period
	Number of WWTWs improved to meet UWWTD	8	8	15	25
	Number of waste water networks improved to meet UWWTD	19	17	20	59
	Number of improvements required to meet UWWTD - Glasgow completion	43	42	51	85
Drotosting and	Number of improvements required to meet the Water Framework Directive	1	10	1	21
Protecting and enhancing the environment	Studies to inform requirements under the revised Bathing Waters Directive	6	1	7	11
environment	Number of environmental studies to inform future periods	16	1	22	127
	Number of improvements required by the Compliance Assessment Scheme; odour reduction and sludge management	22	13	28	42
	2010-15 outputs planned to complete in the 2015-21 period	10	9	12	15
Flood risk	Reservoirs Act - number of improvements to dams		17	21	57
management	Flood Risk Management Act - models and integrated catchment studies	51	24	65	218
Total		190	142	242	660

Improvements covered by the Water Framework Directive programme are forecast to behind plan at the year end to allow Scottish Water to more effectively manage the resilience of the supply of drinking water to customers from the Amlaird system. Scottish Water is working hard to deliver the environmental improvements at Amlaird as quickly as possible; however it is likely that the existing Amlaird works will remain in operation until the Ayrshire Resilience Scheme is completed.

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Appendix C: Supporting economic development

Scottish Water continues to support the Scottish economy by meeting the demand for water and waste water connections to new households and businesses and where necessary has initiated projects to increase strategic capacity. Connections have been made to 73,120 new household and businesses to December 2017. Scottish Water has also installed over 9,296 first time wholesale meters and replaced 26,876 wholesale meters as shown in the table below.

Objective	Quarterly monitored programme areas	Q3 2017/18 Actual	2017/18 Year end Target	2017/18 Year end Forecast	Total number of outputs over the regulatory period
	Number of new connections to households and businesses	74,794	Demand driven	Demand driven	56,500°
Supporting economic development	Delivery of new waste water capacity for 58,000 people	2,143	Demand driven	Demand driven	58,000
	Number of first time non domestic meters installed	9,295	Demand driven	Demand driven	18,000
	Number of wholesale meters	26,876	Demand driven	Demand driven	75,500
Climate change	Number of climate change vulnerability assessments	55	55	57	122
Long term cost of service	Improvements in renewable power and energy efficiency (GWh)	11.25	7.9	11.57	17.5

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^c Target of 56,500 new connections is for 2018, target for 2021 will be confirmed as part of IR18.

Glossary of Terms

Assets Physical plant and equipment used to produce and transfer water, to collect and treat waste water such as water treatment works and water mains, sewers and sewage works etc. Climate Change Adaption and Mitigation Plant is the action taken by Scottish Water to increase the resilience of its assets to climate change variability and extremes whereas 'mitigation' is the steps to permanently eliminate or reduce its carbon emissions associated with its activities. Delivery Plan Scottish Water's annual statement of investment outputs and financial targets. DMA District meter areas (DMA) help to identify any localised leakage by the installation of online flow monitors. Scottish Water's overarching process to planning and delivering investment to achieve the outcome required. IR18 Rolling Investment Review 2018 to consider priorities and outputs for the 2018-21 period and beyond. The water lost from Scottish Water's network of water pipes and its assets (service reservoirs etc.) between putting water into supply and it arriving at customer taps. A statement of requirements (deliverables) set out by Scottish Ministers. Outputs Monitoring Group Representatives of Scotland's water industry who are accountable for the monitoring the progress of output delivery. Overall Measure of Delivery OMD) The metric used to assess Scottish Water's delivery of its investment-related outputs. A comparative overview of company performance which is calculated each year. It covers measures of water supply, sewerage service, customer service and environmental performance. Unsatisfactory Intermittent Discharges. An overflow on the sewer network that requires to be improved so as to meet environmental standards for the water body into which it discharge or which it affects. The Urban Waste Water Treatment Directive is a European Union directive concerning the "collection, treatment and discharge of waste water from certain industrial sectors".		
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