

GHG Action Plan 2016/17 – Final Version

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| Sector Descriptors: | Agriculture and Forestry | Any specific activity or research which pertains to energy efficiency and the reduction of emissions in the agricultural and forestry industries. |
| | Transport | Any specific activity or research which pertains to furthering energy efficiency and the reduction of emissions in the transport industry. |
| | Energy | Any specific activity or research which pertains to the large scale generation, transmission and storage of energy including renewables and energy efficiency measures. |
| | Residential | Any specific activity or research which pertains to the energy efficiency/ heating of homes or buildings. |
| | Industry | Any specific activity or research which pertains to the energy efficiency and reduction of emissions in industrial production except Agriculture. |
| | Government | Any activities or research including policy and legislation instigated by central government that does not fall under any of the above sectors. |

| Dept | Key actions for 2016/17 | Sector | Milestones | Target Date | Update (target met. If missed why and new target date) |
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| DAERA | Implement support for afforestation measures [Delivery Plan - PfG 29 link 2] | Agriculture & Forestry | Support planting of 200ha of new woodland through the Rural Development Programme. | Mar 17 | Completed. Target met - 208 ha of new woodland planted in the 2016/17 business year with support of the Rural Development Plan's Forest Expansion Scheme. |

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| DAERA | Review the Forest Strategy 2006 and adapt to the draft NI PfG. [Delivery Plan - PfG 29 link 2] | Agriculture & Forestry | Commence a review of Forest Strategy 2006 | Mar 17 | Completed. Target met - Review of the 2006 Forest Strategy has commenced with gathering necessary evidence and commissioning research from AFBI to provide additional evidence. |
| DAERA | Agri-Forestry Greenhouse Gas Implementation Partnership to implement the 'Efficient Farming Cuts Greenhouse Gases Implementation Plan 2016-2020' (under review) [Delivery Plan - PfG 29 link 2] | Agriculture & Forestry | Commence implementation | Dec 16 | Completed. Implementation Plan published on 28 September 2016 and implementation underway.. |
| DAERA | In partnership with the Agricultural Land Use Expert Working Group, agree the principles of sustainable land management and set a timetable for publication of the Agricultural Land Use Strategy and Action Plan. [Delivery Plan - PfG 29 link 2] | Agriculture & Forestry | Complete and issue draft Agricultural Land Use Strategy and Action Plan. | Dec 16 | Completed. The Expert Working Group published their Sustainable Agricultural Land Management Strategy on 21 st October 2016. |

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| DAERA | Contribute to UK and International emissions reduction obligations. [Delivery Plan - PfG 29 link 7] | Government | Produce a statistical bulletin outlining key Northern Ireland figures from the Greenhouse Gas Inventories for England, Scotland, Wales and Northern Ireland. | Jun 16 | Completed. In 2014, Northern Ireland's greenhouse gas emissions were estimated to be 20.3 million tonnes of carbon dioxide equivalent. This was a decrease of 3.0% compared to 2013. The longer term trend showed a decrease of 17.4% compared to the base year. The largest sectors in terms of emissions in 2014 were agriculture (28%), transport (21%) and energy supply (19%). Most sectors showed a decreasing trend since the base year. The largest decreases were in the energy supply, residential and waste sectors. |
| DAERA | Contribute to UK and International emissions reduction obligations. [Delivery Plan - PfG 29 link 7] | Government | Produce a projection of estimated emissions to 2030 based on current statistical data | Dec 16 | Completed. The latest projection tool was published in December 2016. It was based on the 2014 Inventory data and projected a 31.2% reduction in greenhouse gas emissions to 2030 from a 1990 baseline. From 2014 to 2030 we see a gradual reduction in NI's GHG emissions. The projections indicate the NI emissions are due to increase from 2025 onwards due to increasing energy demand with no additional policy savings. |
| DAERA | Support Eco Schools [Delivery Plan - PfG 29 link 6] | Government | Provide funding to progress Eco School initiative. | Mar 17 | Completed. The third quarterly grant claim has been received from Keep Northern Ireland Beautiful (the Eco-Schools partner in Northern Ireland) and is currently being processed. The final quarterly claim is always processed in the next financial year and is anticipated in April 2017. |
| DAERA | Implement the NI Waste Management Strategy [Delivery Plan - PfG 29 link 1] | Local Government | Reduce the amount of local authority collected biodegradable municipal waste sent to landfill to no more than 262,856 tonnes. | Mar 17 | Completed. Target met – 218,898 tonnes of biodegradable LACMW was sent to landfill in year 2015/16. |

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| DAERA | Implement the NI Waste Management Strategy [Delivery Plan - PfG 29 link 1] | Local Government | Increase household waste recycling rate | Mar 17 | Ongoing. Seven projects have commenced, which have received funding under the Rethink Waste Capital Scheme, by local councils in order to deliver improved recycling services. The projects cumulatively estimate to provide over 21,000 tonnes additional recycling capacity over 3 years, including: 11,800 tonnes food waste equating to 24,400 tonnes CO ₂ equivalent emissions prevented. Provisional data for Quarter 1 and Quarter 2 of 2016/17 show household waste recycling having increased by 1.5 & 3.2 percentage points respectively, compared to the comparative quarters in 2015/16 (https://www.daera-ni.gov.uk/articles/northern-ireland-local-authority-collected-municipal-waste-management-statistics). |
| DAERA | Trading Schemes - Continue to develop policy and implementation of EU ETS. [Delivery Plan - PfG 29 link 7] | Industry | To support UK effort to progress negotiations to secure fundamental changes to EU ETS | Mar 17 | Ongoing. Detailed discussions under way with UK government. |
| DAERA | Trading Schemes - Continue to develop policy and implementation of CRC Efficiency Scheme. [Delivery Plan - PfG 29 link 7] | Industry | To support UK effort to secure fundamental changes to CRC | Mar 17 | Ongoing. Review of CRC Scheme underway and discussions continuing with HMT. |
| DAERA | Contribute to carbon reduction /energy efficiency of public estate - implement energy efficiency measures including CRC. [Delivery Plan - PfG 29 link 6] | Government | 2014/15 CRC data to be made available to Mitigation Subgroup members. | Nov 16 | Completed. Review of CRC delayed publication of 2014/15 CRC participant's emissions - figures issued to mitigation group in February 2017 |

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| DfC | Deliver home energy improvements to around 3000 homes through the Affordable Warmth and the Boiler Replacement Schemes [Delivery Plan - PfG 29 link 5] | Residential | | Mar 17 | Completed. Expect to exceed this target by the end of March 2017. Final numbers will be available in mid April 2017. |
| DE | Contribute to enhancing energy efficiency of education estate (schools and administrative accommodation) [Delivery Plan - PfG 29 link 6] | Government | Scope projects, procurement method and specification of energy monitoring and control systems, with aim of investing in 2017/18. | Mar 17 | Completed. Specification and procurement method have been scoped and a number of schools identified. It is anticipated that the energy monitoring pilot programme will proceed to delivery in 2017/18. |
| DE | [Delivery Plan - PfG 29 link 6] | | Evaluation of 2014/15 programme. | Dec 16 | Ongoing. As the evaluation is only starting now it is unlikely that this will be used as basis for any investment decisions in the current financial year. Work is in progress to complete the evaluation of the 2014/15 programme with the aim of completing by June 2017. |
| DE | [Delivery Plan - PfG 29 link 6] | | Continue to ensure that all school building contracts include overarching requirements in respect of energy, water and low carbon design to ensure the accommodation is sustainable and energy efficient | Mar 17 | Ongoing. DE ensures that school buildings are designed and constructed to achieve the “Excellent” rating for new buildings and “Very Good” for work to existing schools as part of the Code for a Sustainable Built Environment via the BREEAM (Building Research Establishment Environmental Assessment Method) assessment tool. |
| DE | [Delivery Plan - PfG 29 link 6] | | Complete review of Education Authority (EA) administrative accommodation. | Mar 17 | Ongoing. A report on accommodation is due by March 2017, with recommendations on rationalisation which will be implemented in future years. This work is in its initial stages and it is anticipated that it will be substantially completed in the 2017/18 year. |

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| DfE (Gas) | Support delivery of Gas to the West project [Delivery Plan - PfG 29 link 4] | Energy | Provision of new gas infrastructure commenced by developer. | Mar 17 | Completed. The new intermediate pressure gas pipeline to Strabane, the first phase of the Gas to the West project, is now complete and work has started on building out a gas distribution network within the town. Subject to planning approval, work on major pipelines to connect Dungannon, Coalisland, Cookstown, Magherafelt, Omagh, Enniskillen and Derrylin to natural gas is expected to start during 2017. |
| DfE (Renewable Electricity) | Bring forward renewable electricity related legislation which may contribute to GHG reduction. [Delivery Plan - PfG 29 link 4] | Energy | Following consultation in 2014, introduce legislation on transition procedures from the Northern Ireland Renewables Obligation (NIRO) to large scale Contracts for Difference. | Jun 16 | Completed. The Renewables Obligation Closure Order (Northern Ireland) 2015 closed the NIRO to all non- wind technologies on 31 March 2017 with exceptions in the form of grace periods. The Renewables Obligation Closure Order (Northern Ireland) 2016 closed the NIRO to new small scale on-shore wind projects on 30 June 2016 with exceptions in the form of grace periods. |
| | | | | Oct 16 | Ongoing. The NI Executive will be asked to consider the NI's position in relation to the CfD scheme as soon as is practicable. |
| DfE | Put in place policy measures to meet NI energy savings requirements under Article 7 of the Energy Efficiency Directive (EED) [Delivery Plan - PfG 29 link 7] | Energy | Work with the Regulator to develop options to meet obligations under the EED and Deliver sustainable and affordable energy policies. | Mar 17 | Completed. The Northern Ireland Sustainable Energy Programme (NISEP) which currently provides NI's energy savings contribution under EED has been extended for a further year until 31 March 2018. |

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| DfE/ INVESTNI | Further to the 3 year approval of the Sustainable Development Support Programme, identify a 10.10ktCO2 of carbon savings per annum under the Energy Efficiency Loan Fund and complete a review of the Loan Fund covering the period Apr 2010 – December 2015 [Delivery Plan - PfG 29 link 5] | Industry | | Mar17 | Completed. Review of loan fund completed. 4.56ktCO2 savings achieved through disbursed loans as of 31 January 2017 for financial year 2016/17. |
| DfE | Bring forward proposals for a new energy efficiency scheme (EnergyWise) to replace the Northern Ireland Sustainable Energy Programme (NISEP) from April 2017 onwards. [Delivery Plan - PfG 29 link 5] | Domestic | Secure necessary Energywise Scheme Approvals | Mar17 | Ongoing. Work continuing to bring forward proposals for EnergyWise. |
| DfE | Support the development of renewable energy storage (AES Kilroot) [Delivery Plan - PfG 29 link 4] | Energy | Array to provide £8.5 million in savings to NI electricity system a year and reduce emissions by the equivalent of 123,000 tonnes of CO2 annually. | Mar 17 | Ongoing. This is a commercial project and the developers, AES Corporation have not sought Government support for its delivery. A 10MW pilot facility is now in place and operational. Its contribution to the grid is under review by the Utility Regulator and the Transmission System Operator (SONI). . We understand that AES is currently considering options for future investment in its generation units and has commissioned research into options which could include the expansion of the battery array to 100MW. |

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| | <p>Compressed Air Storage (CAES Larne)/ Infrastrata Islandmagee Gas Storage Project</p> <p>[Delivery Plan - PfG 29 link 4]</p> | Energy | | Mar 17 | <p>Ongoing. The Islandmagee Gas Storage and Gaelectric Compressed Air Energy Storage projects have been designated as European Projects of Common Interest (PCI under the Trans-European Networks for Energy (TEN-E) Regulation). PCI designation acknowledges that projects are strategically important to wider EU energy policy and developers have access to funding under the Connecting Europe Facility (CEF). The developers of both projects have been successful in funding applications under CEF, which will allow essential studies and engineer design activities to be completed before the projects move into construction phase. The Department for the Economy acts as “Competent Authority” under the TEN-E Regulation for those PCIs relevant to Northern Ireland. The Competent Authority role requires the Department to assist developers with their understanding of the consents and approvals that will be required to allow a project to progress. It does not extend to provision of financial support for projects.</p> <p>The developers of the CAES facility have recently received a grant offer of €90 million through the EU Connecting Europe Facility to undertake construction works.</p> |
| DoF | <p>Contribute to carbon reduction /energy efficiency of public estate - implement energy efficiency measures including CRC</p> <p>[Delivery Plan - PfG 29 link 6]</p> | Government | Submit Annual Report/ order CRC allowances for PD office estate | Jul 16 | Completed. July 2016 |
| | | | Payment for and surrender of CRC allowances. | Oct 16 | Completed. |

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| DoH | Encourage carbon reduction and energy efficiency measures of the DoH ALB's in the management of their estate [Delivery Plan - PfG 29 link 6] | Government | Identify DoH capital monies available for HSC Trusts for invest to save projects in energy efficiency. | Aug 16 | Completed - Limited funding available for 2016/17 | |
| DoH | | | HSC Trusts to identify suitable energy efficiency projects | Aug 16 | Completed – HSC Trusts continue to identify invest to save projects | |
| | | | Allocate capital | Sept 16 | Not completed. No capital Allocation 2016/17. | |
| | | | Request PPE on CERI Projects for 2012/13 to 2013/14 completed projects. | Aug 16 | Completed. PPE reports received from one Trust. No additional requests issued. | |
| DoH | RVH Energy Centre Project Engage with BHSCT re Proposed Business case and seek DoF Funding and approval [Delivery Plan - PfG 29 link 6] | | Receive, assess and comment on revised BC | Aug 16 | Completed | |
| | | | Submit to DoF for approval | Sept 16 | Completed. Submission on target to DoF. | |
| DoH | BCH Energy Centre Project. Engage with BHSCT re Proposed Business case and seek DoF Funding and approval [Delivery Plan - PfG 29 link 6] | | Receive ,assess and comment on revised BC | Oct 16 | Ongoing. BHSCT continue to develop BC for this project. | |

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| | | | Submit to DoF for approval | Mar 17 | Not completed - BHSCT continue to develop BC for this project. |
| DOJ | Contribute to carbon reduction/energy efficiency of public estate – implement energy efficiency measures including CRC [Delivery Plan - PfG 29 link 6] | Government | Submit CRC 2016/17 estimated allowance and make payment Submit Annual CRC Report and ordered allowances Payment for any additional allowances for 2015/16 above amount estimated | Jun 16 Jul 16 Dec 16 | Completed. 2016/17 estimates submitted and payment made. Completed. 2015/16 actual submitted and appropriate number surrendered from estimates. Completed. None required as 2015.16 estimates covered the full amount required. |
| Dfl | Develop Long Term Water Strategy Implementation Plan [Delivery Plan - PfG 29 link 6] | Government | Publish Long Term Water Strategy Implementation Plan | Dec 16 | Completed. Dfl Minister agreed the Sustainable Water – A Long Term Water Strategy Implementation Action Plan in January 17. Annual progress report is to be submitted to the Executive in Summer 2017. |

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| DfI | <p>NI Water is to reduce the production of GHGs from its operations and to invest at least £6m on a programme for energy efficiency and renewable energy generation.</p> <p>[Delivery Plan - PfG 29 link 6]</p> | Government | <p>Renewables: current plans for 2016/17</p> <ul style="list-style-type: none"> •Renewables - Installation of Small Scale (roof mounted) Solar PVs at c. 30 works. <p>Wastewater:</p> <ul style="list-style-type: none"> •A programme of work to optimise approx. 50 large WwTW and reduce consumption. <p>Water:</p> <ul style="list-style-type: none"> •A programme of work to optimise pumping times across approx. 10-12 WPS •Upgrade of 5 WPS to reduce consumption and better control optimisation | <p>Mar 17</p> <p>Mar 17</p> <p>Mar 17</p> <p>Mar 17</p> | <p>NI Water continues to pilot and deliver the use of renewable energy, both self-generated & purchased. In particular through investment in Hydro, Solar and Wind, and through agreement with third party renewable energy providers (PPAs). The level of investment remains estimated at c£6M, in the period to 2020/21, subject to successful pilots and the viability of investment in a post NIROC environment.</p> <p>Completed. NI Water has installed circa 1MWP of Solar PV on 55 sites across the NI Water estate. Progress has also been made in exploring Power Purchase Agreements. NI Water will consider use of renewable energy, both self-generated & purchased in the period to 2020/21, subject to viability of investment and successful tenders in a post NIROC environment.</p> <p>Completed. Process optimisation has been successfully completed on a number of Waste Water treatment works reducing the amount of energy required to operate these.</p> <p>Completed. NIW has moved consumption (pumping) from peak tariff periods to off peak tariff for 14 WPS during 15/16 and 16/17.</p> <p>A pilot project to reduce consumption at 5 WPS sites has been completed.</p> |
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| | | | <ul style="list-style-type: none"> •Renewables - Installation of 2 Hydro Turbines, however these are now at high risk (for non-delivery) due to not obtaining a NIE grid connection. | Mar 17 | Not completed. Within the NIW business plan for the Price Control period 2015-21, 10 Hydro Turbines were identified at 8 Raw Water/Water treatment sites for installation. Two of the Hydro Turbines were planned for delivery within 16/17 however, they did not receive an electricity grid connection from NIE and therefore the plans for these sites have been put on hold. | |
| Dfl | To take forward programmes and schemes to encourage modal shift and a reduction in car usage. [Delivery Plan - PfG 29 link 3] | Transport | <p>To progress the Belfast Rapid Transit implementation works in accordance with the Project Plan.</p> <p>Develop a new programme for implementation of new Park & Ride spaces for the next 3 years.</p> | <p>Mar 17</p> <p>Mar 17</p> | <p>Completed – target met. Ongoing implementation of the Belfast Rapid Transit system. This will include the introduction of further bus priority measures on Divis Street, Falls Road, Stewartstown Road and Albertbridge Road, which will promote modal shift to public transport.</p> <p>Completed – target met. A Strategic Park & Ride Delivery Programme 2016-2020 is being established which will deliver additional spaces across Northern Ireland, subject to funding being available.</p> | |
| | | | Grow the number of passengers using Translink services. | Mar 17 | Ongoing. Translink has a target to deliver 80 million passenger journeys in 2016/17. Achievement will be reviewed as soon as data is collated. | |

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| DfI | <p>To develop an Active Travel Action Plan 2012-2015</p> <p>[Delivery Plan - PfG 29 link 3]</p> | Transport | Strategic Plan for Greenways to be published. | Nov 16 | <p>Completed. The Strategic Plan for Greenways was published on 9 November 2016. The Strategic Plan sets out proposals for a Greenway Network across Northern Ireland and provide a framework within which Councils will be able to take forward their own local proposals within a regional context.</p> <p>In parallel with this the Department is taking forward a small grants programme for greenways with the purpose of providing grant funding for Councils to develop greenway proposals.</p> |
| | | | Belfast Bicycle Network Plan | | <p>Ongoing. A public consultation on a draft Belfast Bicycle Network is underway. The draft network will set out proposals for eight arterial and three orbital routes with the objective of bringing a good quality bicycle route within the reach of two thirds of the people within the city.</p> <p>Following consultation a report will be published in summer 2017 with a view to publishing the final network in late 2017.</p> |

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| DfI | <p>Update on progress re electric vehicles</p> <p>[Delivery Plan - PfG 29 link 3]</p> | Transport | | Mar 17 | <p>Ongoing. Following the commercialisation of the ecar charge point network the Department facilitated the installation of 54 charge points in the Public Sector Estate. The Department has been liaising with Office of Low Emission Vehicles in Great Britain regarding the publication of their revised Ultra Low Emission Vehicle strategy. Once this strategy has been developed the Department will consider how best to align strategic direction in Northern Ireland. The work in GB is likely to be completed in the spring of 2017 and will consider the benefits which could be derived from addressing non-financial barriers for promoting Ultra Low Emission Vehicle usage such as parking, use of priority lanes and raising general awareness of electric vehicle capabilities.</p> |
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