

Appendix 2: Council Action Plan Update

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| Progress Colour Key (use format painter) | Complete | 3 |
| | On track / progressing | 20 |
| | Some difficulty/delay to progress | 5 |
| | Progress stopped | |
| | Action no longer required | |

| Priority Area | Project Description | Project Cost (Thousand £) | Annual Carbon Saving (tCO ₂ e) | Funding Secure? (Source) | Progress So Far | Action to 2030 |
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| Electricity | Solar PV Install solar panel arrays on suitable council buildings. | £180 | 43 | Pending (Invest to Save) | Project growing: There is potential to install solar PV on sites across the County, 10 sites have been identified that would meet invest to save criteria | Renewable electricity generation installed on all financially appropriate buildings and land. |
| Electricity | LED Lighting Replacements Installing LEDs in nine council owned buildings. (second phase of project) | £400 | 200 | Yes (Invest to Save) | Complete - More buildings have been identified | More LEDs - no lights in Council properties are to be less efficient than LED by 2030. |
| Electricity | LED Lighting Replacements (third phase of project) | | | Yes (Invest to Save) | Further buildings identified. 4 sites completed. 2 sites being programmed in. | More LEDs - no lights in Council properties are to be less efficient than LED by 2030. |
| Electricity | Enlighten Installing LED lighting in schools. | £500 | 120 | Yes (Invest to Save) | First two schools complete. Significant list of further schools identified. | More LEDs - no lights in Council properties are to be less efficient than LED by 2030. |
| Electricity | Gala Theatre Theatrical LED Lighting Installing LED stage lights. | £133 | 20 | Yes (Invest to Save) | Complete | More LEDs - no lights in Council properties are to be less efficient than LED by 2030. |

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| Electricity | LED Street Lighting Continuing the replacement of old inefficient street lights with LEDs. (Two years of the next phase of the project, which should take three years in total.) | £6,000 | 1,100 | Pending (Invest to Save) | Project delayed due to supply chain disruption due to Covid-19 pandemic. | All street lights to be LED by 2030. |
| Electricity | LED Lighting Replacements Continued Where invest to save cannot be used, other funds will be used to provide LED lighting. | £50 | 50 | Pending (Other Council Fund) | One building complete. One further building identified. | More LEDs - no lights in Council properties are to be less efficient than LED by 2030. |
| Electricity | Electric Bin Hoists Install electric motors on 6 bin lorries so that engines do not need to run while bins are being lifted. | £8 | TBC | Yes | Electric bin hoists to be installed on new RCVs | All bin hoists to be electric by 2030. |
| Electricity | Depot Renewable Generation Our depots use a lot of electricity and this will increase with the addition of electric vehicle charging points. Investigations are underway to find suitable places for renewable electricity generation and storage at our depots. | TBC | TBC | Pending (Invest to Save) | Depots are part of the solar PV installation project. | More renewable electricity generation to be installed at appropriate locations across the council's estate. |
| Electricity | Electricity Grid Decarbonisation National effort to reduce the carbon footprint of the electricity grid. | £- | 3,500 | N/A | The grid factor of the National Grid continues to fall as more renewable electricity sources are added. The annual carbon saving is an estimate based on the last five years. | It is expected that the carbon factor of the national grid will be reduced significantly by 2030. Our estimate is based on previous years' data. |
| Electricity | ECO2 Smart Schools Programme of engagement in schools as well as assistance with energy monitoring. | £80 | 354 | Yes | Project continues despite lockdown disruption. New for 2020-21: pilot of Energy Sparks data portal, virtual support for schools from OASES Team. | All schools to have the opportunity to access energy management services and a sustainability education programme. |
| Electricity | Freemans Quay Leisure Installation of solar PV array on the roof alongside some improvements to insulation. | £140 | 20 | Pending (Salix) | New Project to install solar PV and upgrade major plant at FQ | |

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| Electricity | Durham Sixth Form Installation of solar PV array on the roof alongside better glazing. | £600 | 15 | Pending (Salix) | New Project solar PV, window upgrade and LED retrofit | |
| Electricity, Heat, & Transport | Zero Carbon Depot Transform the whole site at Morrison Busty Depot to be zero carbon, including all buildings and vehicles. | £4,000 | 590 | Pending (ERDF) | Stage 3 design complete, ERDF full application complete, Planning application in, procurement for main contractor to begin | Learn from this project and carry out more whole site actions. |
| Electricity & Heat | Louisa Centre Mine water heat pump to provide low carbon heat with solar PV to generate the necessary electricity. Also other energy efficiency measures in the building. | £3,500 | 503 | Pending (Salix) | Funding is being sought to allow this project to continue. Other essential work at the Louisa Centre may continue without the minewater element. | Learn from this project to inform future mine water heating projects. |
| Electricity & Heat | New Headquarters We are leaving the old County Hall and moving to a much lower carbon building in the City Centre. The building will be very well insulated and includes low carbon lighting and ventilation, as well as rooftop solar panel generation (subject to planning). | TBC | TBC | Yes | The New HQ is under construction. The rooftop solar PV will be installed. Future occupancy of the building may be lower than expected to allow for physical distancing. | The building is prepared to be added to a district heating scheme in the city centre, through which it will receive low carbon heat. |
| Electricity & Heat | Crimdon Coastal Hub Installation of a heat pump and solar PV array to ensure new building is low carbon. | | N/A | Pending (Salix) | New Project Funding is being sought. | All new buildings to be low carbon by 2030. |
| Electricity & Heat | Building Energy Management Systems Install BEMS in appropriate council buildings to better control heating and lighting, and reduce need to travel. | £200 | 20 | Partial (Other Council Fund) | A feasibility study has been commissioned to find the best way forward for the whole estate. | All large council buildings to have BEMS by 2030. |
| Electricity & Heat | Abbey Leisure Heat Pump Install a heat pump at Abbey Leisure Centre, along with renewable electricity generation including solar PV panels. | £300 | 45 | Pending (Salix) | New Project to install a ground source heat pump and solar PV alongside leisure transformation projects | No gas boilers less than 90% efficient to be used in Council properties by 2030. |

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| Heat | Depot Heat Pump Removal of fossil fuel boiler to be replaced with an air source heat pump at Annfield Plain Waste Transfer Station. | £18 | 30 | Yes (Invest to Save) | Complete Monitoring ongoing to optimise compliance, efficiency & reliability. | Learn from this project and aim to replace more fossil fuel boilers with heat pumps if successful. |
| Heat | Away from Oil Replacing oil boilers with low carbon heating alternatives. Investigations are underway to complete this at some rural schools that have no access to the gas network, and some council depots. | £250 | 68 | Pending (Salix) | Hybrid concepts at two schools being developed that should reduce oil by around 70-80%. Other schools to follow once models and process refined. | Complete removal of all oil boilers from all council properties. |
| Heat | Improving Gas Use Replacing older gas boilers with more efficient models. | £250 | 20 | Pending (Other Council Fund) | Investigations underway at a number of buildings. | No gas boilers less than 90% efficient to be used in Council properties by 2030. |
| Heat | Comeleon Heaters Replace outdated gas heaters with low carbon heat source in Comeleon Warehouse | TBC | TBC | Pending (Salix) | New Project Feasibility underway to find the best way to heat the building. | No gas boilers less than 90% efficient to be used in Council properties by 2030. |
| Heat | Teesdale Leisure refurbishment Extension of solar PV array, upgrade of glazing throughout the centre | £100 | 8 | Pending (Salix) | New Project | No gas boilers less than 90% efficient to be used in Council properties by 2030. |
| Transport | Low Carbon Fleet Installation of necessary infrastructure to begin transition to electric fleet vehicles in the first two years. Evaluate options for refuse lorries to be fuelled by biogas. | £150 | N/A | Pending (Other Council Fund) | 27 charge points installed at strategic sites across the county to facilitate fleet transition | Significant proportion of Council fleet to be electric by 2030. Remaining fleet may be fossil fuel, hybrid, or other alternative fuel. |
| Transport | Electric Refuse Lorries Trial use of electric refuse collection vehicles and implement them where possible. | £900 | 36 | Pending (Other Council Fund) | New Project to procure 2 electric RCVs | Fossil fuel fleet vehicles to be in the minority by 2030, with majority being low or zero carbon alternatives. |

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| Transport | Reduce Business Miles Encourage remote meetings and working at most appropriate location by working with the Inspire programme and internal management. | £- | 120 | N/A | Business travel has significantly reduced as a result of the Covid-19 pandemic. Efforts will be made to ensure this continues. | Greater use of remote meeting tools, such as video conferencing, webinars, or telephone meetings, to reduce the need to travel. |
| Transport | Pool Cars Transition to electric vehicles for our staff pool cars and the chair of the council's vehicle. Aiming to have 26 electric pool cars and 40 electric vans in this period. | TBC | TBC | TBC | This is on hold (as pool cars aren't being used during pandemic) | No fossil fuel only pool cars to be in use by 2030. Some could be hybrids. |
| TOTAL | At least 6861 tonnes saved of 8012 tonnes of CO2e required to be saved by March 2023. | | | | Work is progressing. | Save a further 17,071 tonnes by 2030. |