**Lake District National Park Partnership**

**Climate Change Action Plan September 2019 – September 2020**

**Background**

Low Carbon Lake District is the initiative launched in 2008 that seeks to tackle climate change in the Lake District. The Lake District National Park Partnership works with local businesses, communities and agencies to reduce greenhouse gas emissions and prepare for the impacts of climate change. Under the Low Carbon Lake District initiative, the Lake District National Park Partnership has committed itself to setting and managing a carbon budget. The principle behind a carbon budget is simple: like a financial budget, we aim to find out how much carbon the Lake District is responsible for, and then reduce the carbon ‘spend’ year on year. The work began in 2010, and the latest 2017 report by Small World Consulting, which assesses emissions, reveals that the Lake District is responsible for consuming 3.1 million tonnes of carbon dioxide and other greenhouse gases per year. The full report is available [**here**](http://www.lakedistrict.gov.uk/caringfor/lake-district-national-park-partnership/carbonbudget) following this analysis, the Lake District National Park Partnership agreed a target to reduce emissions across the Lake District by one per cent a year, in line with national statutory carbon budgets set out in the Climate Change Act 2008. It has agreed an annual action plan to work towards achieving this target and has annually monitored its progress against this target using the carbon budget approach.

**The two areas which offer the greatest opportunity to significantly reduce emissions are the transport sector, particularly visitor transport, and the accommodation, food and drink sector. The Partnership’s Climate Change Subgroup has recommended from 2018 prioritising high impact actions, particularly around sustainable transport options. This annual action plan captures how the Partnership is working towards delivering its target.**

In the Partnership’s Plan 2015-2020 the Partnership has re-committed to its 1% per year reduction target and the carbon budget approach. The Partnership will address climate change across the four themes of the Vision:

* A spectacular landscape, wildlife and cultural heritage: The Partnership works to make the landscape more resilient to the impacts of climate change, and increase the storage of carbon in the landscape, particularly woodland and peatland.
* A prosperous economy: The Partnership helps to provide businesses with advice and support to reduce their energy and resource use, promote on-site renewable energy, and the use of locally produced food and drink, bringing economic and environmental benefits.
* World class visitor experiences: Offering sustainable transport options, promoting local food and drink, and encouraging greener tourism contributes to a great experience for visitors whilst reducing emissions.
* Vibrant communities: Through the Partnership’s work with local communities, it helps them to become more resilient to climate impacts, and manage emissions.

**Climate Change Action Plan – September 2019 - September 2020**

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| **Area** | **Action** | **Lead organisation (in bold) and others involved** | **Date** | **Funding / lead officer / other notes** | **Initial estimates of carbon savings (where known)** |
| **Strategy and leadership** | Reduce the Lake District's carbon budget by at least 1% a year every year and be recognised as leaders in developing a comprehensive local response to climate change. Monitor annually. | **LDNP Partnership Climate Change Subgroup / LDNPA** | Ongoing | Funded by LDNPA | Savings come from actual projects below |
| Support the case for securing funding to deliver sustainable transport options in the Lake District | **LDNP Partnership Climate Change Subgroup** | Dec 2017 onwards | **The area of sustainable transport, particularly visitor transport is the key area to address to reduce local emissions.** |
| Identify opportunities to improve networking and enable more joined-up working across the Partnership in the climate change area | **LDNP Partnership Climate Change Subgroup** | Dec 2019 – Dec 2020 |  |
| Explore options to reduce agriculture emissions and embed land management and land use in the carbon budget methodology | **LDNPA, LDNP Partnership Climate Change Subgroup** | By March 2021 | Subject to funding |
| Renewing Fairtrade status for the Lake District National Park | **LDNPA** | 2019 |  |  |
|  | Addressing catering on site to reduce our carbon footprint via sustainable solutions | **University of Cumbria**, Lancaster University, UCLan, | 2019-2021 | **University of Cumbria** |  |
|  | Progressing towards ISO14001 (Level 5 Green Dragon in 2020)  Sustainable food - reducing the carbon footprint of our menu choices by increasing local food and reducing food waste | **National Trust** | 2020  2020 |  |  |
| **Low Carbon Economic Development** | Going digital – Carbon connect  Mobile working  New or improved premises/office  Neighbourhood working  Online transactions  Digital communications – reduce paper | **SLDC** | 3yr project |  |  |
| Hold free masterclass on viable and practical examples to comply with regulations on energy-efficient homes  for development industry and self-builders | **SLDC, Zero Carbon Hub** |  | Ongoing |  |
| **Hydropower Projects**  Greenburn 554 MWh  Netherbeck 558 MWh  Future opportunities  Watendlath Circa 300 MWh - planning received  Crosby Gill 550 MWh - planning received  Combe Gill 770 MWh - planning received  Whilan Beck 537 MWh  Woundale Beck - 420 Mwh - planning received  Glencoyne beck 404 MWh - planning received  **Renewable Heat**  Sticklebarn Ground Source Heat Pump (114,000 kWh)  Sizergh Biomass (annual generation 400,000 kWh)  Sizergh PV (annual generation 50,000 kWh)  Additional PV schemes if we are successful with the low carbon bid  **Energy Efficiency**  Electrical equipment upgrades (26,000kWh saving)  Heating System controls (78,000 kWh saving)  Insulation (87,000 kWh saving)  LED lighting (86,000 kWh saving) | **National Trust** | **Start of generation**  Dec-18  Jul-19  TBC  Oct-20  Oct-20  Mar-20  Feb-21  Mar-21  **Delivery**  2020  2020  2020  2020  2020  2020  2020  2020 |  |  |
| **Eco- innovation Cumbria**  Eco-innovation Cumbria supports SMEs to improve efficiency, grow capacity and develop new solutions for industry. Focused on innovation, research and development, accessing academic expertise and providing knowledge exchange. A range of short to long term interventions are delivered by one of the partner universities:  • Attendance at a series of workshops and masterclass events on innovation and product development  • Access to undergraduate research for short term assignments  • Access to in-depth, long term researchers working specifically on business led projects  Building on the multiple award-winning eco-innovation model, an ERDF funding application has been submitted to extend Eco-Innovation Cumbria bringing together the resource and expertise of 6 leading NW universities to deliver business leadership and collaborative R&D activities. The  NW Low Carbon Innovation Accelerator would support SMEs to develop new products and markets through research, innovation and demonstration and develop their capacity for clean and sustainable growth.  Delivering the Ambleside Campus Business Plan which is working towards a Low Carbon Strategy aligned with the UN Sustainable Development 2030 goals | **University of Cumbria**, Lancaster University, UCLan,  **University of Cumbria**, Lancaster University, UCLan, | 4 year programme until November 2020  2019-21 | Glyn Griffiths  University of Cumbria  Rachel Lowthian | 387 tonnes |
| **Sustainable communities and homes** | Community Energy support programme | **CAfS, SLDC** | Next 12 months |  | 20-50 tonnes pa |
| 350 KW and 100KW Community Hydro (in pipeline phase) | **CAfS** | 1-2 years |  | 750 tonnes pa |
| Development of micro grid and district heat network (outskirts of LDNP) | **CAfS** | 3-5 years | (outskirts of LDNP) | 600 tonnes pa |
| CAfs are also scoping out Community Energy Training courses for 2019 / 2020: This would involve supporting everything from community engagement to community share offer and project management. | **CAfS** |  |  |  |
| Low carbon domestic refurbishment training programme | **CAfS** | Ongoing |  | Possible 50 tonnes pa |
| Energy auditing and draught-proofing service for vulnerable residents | **CAfS** | Ongoing |  | 10 tonnes pa |
|  | Re-established links with the Green Team formed by SLDC | **SLDC/ LDNPA** | 2019-20 |  |  |
|  | **Ambleside Action For A Future**  Co funding a carbon budget baseline  Mapping PV potential in the town and development of a software tool. | **AAFAF/CAfS/ SLDC/LDNPA** | 2019  2019 |  |  |
| **Sustainable Tourism** | Boosting funding for the area (from visitor giving) – including (possibly) low carbon projects | **LDNP Partnership**  The Lake District Foundation | Next 12 months |  |  |
| Energy efficiency improvements at Brockhole (some management changes, possible ground source heating system) | **LDNPA** | Ongoing | Martin Sleath, LDNPA |  |
| Air source heat pump | **CBEN** |  | Subject to funding | 46 tonnes and 15 tonnes |
| Research into a new approach for accommodation providers to tackle behavioural change – trialing project in Lake District | **International Centre for Responsible Tourism / LDNPA / Lake District Foundation / local businesses** | 2017 - 2019 |  |  |
| Energy-efficiency improvements to Saunderpot depot. These are hoped to save up to 13.7 tonnes of CO2e per year on Saunderpot’s annual emissions. | **LDNPA** | 2019-20 | Martin Sleath, LDNPA |  |
|  | Explore if we can provide a simple carbon calculation tool so The District Foundation applicants can report on savings. | **Lake District Foundation/ LDNPA** | 2018-19 |  | Requires funding |
| **Sustainable travel** | Working up innovation projects funding bids  Awareness raising/events | **LDNPA** |  | Emma Moody, LDNPA |  |
| Walking and cycling development and promotion in line with access and recreation strategy | **LDNPA** |  | LDNPA |  |
| Phased replacement of diesel vehicles with electric (own fleet) | **LDNPA** | Ongoing | Martin Sleath, LDNPA |  |
| Travel budget | **NE** | Ongoing |  |  |
| Local Plan – long term reduction in need to travel - because planning policy affects settlements, transport and energy demand – carbon implications are significant | **LDNPA** | 2017 - 2019 |  |  |
| Work in partnership to promote sustainable travel options with communities and visitors |  |  | Emma Moody, LDNPA |  |
| Continue to work in partnership with the County Council to deliver recommended measures from the Corridor Travel Plans |  |  | Emma Moody, LDNPA |  |
| The Replacement of Diesel Estates Vehicle to 100% Electric | **University of Cumbria** | Ongoing | Paul McCulloch, University of Cumbria |  |
| Progress roll out of electric vehicle charge points | **LDNPA** | 2020 | Subject to funding |  |
|  | **Transport**  EVCP x 5 (additional ones if we are successful with the low carbon bid)  Electric bike hire trial - Sticklebarn  Seathwaite Travel Plan  Reduced staff travel through webex | **National Trust** | 2020  2019-20  2020  2020 | This began this Aug 2019. Will restart Spring 2020 |  |
| **Re-use, repair and recycling** | R2W are now recycling and re-using over 70% of the materials collected.  The contract runs for another 3 years, and may then be extended for a further 5 years.  we now report that 100% of households are on plastic and card recycling [see website graph](https://www.southlakeland.gov.uk/your-council/council-business/performance-measures/measure-details?id=34) | **SLDC** | Ongoing |  |  |
| **Waste**  Reducing single use plastics - ensuring that shops are free of single use plastic.  Improve recycling % at National Trust properties  Explore which NT catering outlets could be enhanced by food waste collections | **National Trust** | 2022  2020  2020 | Rollout food waste solution in 2020 |  |
| **Managing land for carbon** | Peatland restoration – linked to funding/ cash flow at times do a lot at others less. Lots of areas and opportunities | **CWT** |  | Various funding bids in, awaiting decision. | Big carbon savings |
| Haymeadow restoration (species rich grass = good for carbon sequestration) | **CWT** |  |  |  |
| Natural Flood Management Opportunities include tree planting, short rotation coppice, peat restoration. Catchment approach sequestering CO2 and reducing flood risk and new farm income. The area is Cumbria wide, but 2 pilots in Glenridding/ Braithwaite. | **EA** |  | Natural Flood Management funding available in Cumbria |  |
|  | Hydro scheme which is in the pipeline, likely to be delivered in 20/21.  Developing a strategy for energy and infrastructure 2019. | **FC** | 2019-20 | Mark Child |  |
|  | **Peat Restoration Work**  Wasdale  Tebay Gill  Needle House Estate  Bampton Common  Shap Fells | **CWT** | 2018-20 |  | DEFRA peatland grant |
| **Building resilience to the impacts of climate change** | New SLDC agreement with ACT (Action with Communities in Cumbria) will include promoting Emergency Planning. SLDC have published a Community Resilience across South Lakeland Plan to provide emergency plan templates and other information to community groups and helps groups network across SLDC | **SLDC, ACT** | 2019 onwards |  | These actions focus on building resilience to the impacts of climate change, rather than reducing emissions. |
| ‘Re-building Together’ project, following Storm Desmond, focusing on adaptation.  New [Emergency Planning guide for Cumbrian Households](http://www.cumbriaaction.org.uk/News-Events/News/ArtMID/491/ArticleID/611/New-Emergency-Planning-guide-for-Cumbrian-Households) produced  [Report on the Environmental costs of flooding for households](http://www.cafs.org.uk/environmental-cost-flooding/) (what happens after a flood event and what drives decisions about the initial response, strip out, drying and refurbishment) This project is about sustainable renovation of flood-damaged properties. There will be weekly podcasts and filming of a case study in Appleby – with the hashtag #readyforrain. Also the Green Build Festival will be taking place in the third week of September. | **ACT, CAfS, Cumbria CVS** | Sep 2016 – Sep 2020 | Phil Davies  Big lottery funded £1m project |
| Local plan – addressing resilience to climate change through various policy options and updated strategic flood risk assessment | **LDNPA** | 2017-2019 | LDNPA funded |
| Supporting PhD research on 'A Regional Scale Assessment of Erosion and Sedimentation Patterns in Upland Rivers' including Lake District analysis (historic and Storm Desmond impact) | **Durham University,** LDNPA | 2015 - 2019 | NERC IAPETUS funded |