

## CLIMATE CHANGE ACTION PLAN 2018/19

Project	Description	Outputs	Status of Outputs (short commentary)	Status of Outputs (Red/Amber/Green)	Delivery Area Lead	Other Delivery Bodies	Measurements	Figure against measurement <small>One tonne of carbon is equivalent to 3.7 tonnes of carbon dioxide.</small>
<b>Conservation &amp; Land Management</b>								
<b>1 Carbon capture – woodlands, forests &amp; peatlands</b>	<b>What is being done?</b> Increase carbon capture through expansion of native woodlands and forests and restoration of degraded peatlands	<ul style="list-style-type: none"> <li>Creation of Trees &amp; Woodlands Strategy</li> </ul>	Draft Trees and Woodlands strategy has been produced for Public Consultation process scheduled to start in April 2019	Green	Conservation & Land Management	National Trust Scotland  Forestry Commission Scotland  Scottish Natural Heritage	Woodland expansion (Ha)	Projected 302ha of FCS grants approved (approx. 423 tonnes of carbon/yr)
		<ul style="list-style-type: none"> <li>Partnership working at Strathard and The Great Trossachs Forest</li> </ul>	Phase 2 proposals for the Strathard area have been drafted and agreed between Strathard Initiative Senior Managers	Green			Captured as part of woodland expansion and peatland restored metrics	N/A
		<ul style="list-style-type: none"> <li>Influencing decisions on woodland/forest design plans</li> </ul>	In addition to the sites where grants have been approved, we have responded to consultations on 11 separate forestry plans/land management plans and developing Forestry Grant proposals.	Green			No. of consultation responses	11
		<ul style="list-style-type: none"> <li>Proposed National Park Grants for small-scale tree planting</li> </ul>	Unable to progress this year due to funding.	Red			No. of planting projects	0
		<ul style="list-style-type: none"> <li>Promotion on forestry grant schemes through Integrated Land Management Plans</li> </ul>	In addition to the 302 ha of FCS grants approved, another 280ha of potential woodland creation proposals have been identified through the ILMP process	Amber			Will be captured as part of woodland expansion and peatland restored metrics for 2019/20	N/A
		<ul style="list-style-type: none"> <li>Installation of dams and re-profiling of hags at public and private peatlands utilising Peatland Action Funding</li> </ul>	£240K of funding has been secured from the Peatland ACTION fund to carry out restoration of peatlands using different techniques including dams (1139 dams) and hag work (approximately 46km)	Green			Peatlands restored (Ha/Kms)	Projected 112ha on road to recovery.  Long-term annual saving potentially around 19 tC/ha/yr
		<ul style="list-style-type: none"> <li>Participation in Moorland Indicators of Climate Change Initiative (MICCI) schools project</li> </ul>	7 Junior Rangers (pupils) took part in MICCI monitoring and learning as part of the IUCN Peatlands conference	Amber			No. of pupils participating	7
<b>2 Land management to reduce flood risk</b>	<b>What is being done?</b> Managing woodlands,	<ul style="list-style-type: none"> <li>Natural Flood Management techniques trialled in Strathard Project</li> </ul>	SEPA collecting baseline data on the Allt Glas catchment to allow monitoring of the effectiveness of NFM measures that they intend to install 2020+. They have created 3 sites which demonstrate the use of leaky woody debris dams and wetland creation flood alleviation.	Amber	Land Management  Development Planning	FCS  Scottish Environment	Sites under active flood management (Ha)	N/A – expected 2020

	forests, peatlands and waterways upstream to reduce risk of downstream flooding	<ul style="list-style-type: none"> <li>Assessing natural flood management potential of Loch Lomond catchment, as part of Clyde &amp; Lomond Local District Plan</li> <li>Engaging in flood management schemes for Aberfoyle and Callander</li> </ul>	<p>Initial meeting have been held with the Local Authorities &amp; Transport Scotland with areas suggested for the Natural Flood Management Study to look at for potential sites. Next steps are to finalise the brief for the study and seek funding from the partners to go out to consultants to progress the study.</p> <p>Initial meetings have been held on the latest flood scheme designs. Aberfoyle scheme design is to be finalised by November 2019 so that it can go into the application process for funding from the Scottish Government to deliver the scheme. Anticipating further design inputs over the next few months</p>	Amber		Protection Agency Stirling Council Community Partnership	Land under active flood management (Sq.Kms) No. of schemes engaged with	N/A – date tbc 1
<b>Visitor Experience</b>								
<b>3 Raising awareness and action through engagement</b>	<b>What is being done?</b> Utilising Rangers, Education and Volunteer teams engage with public and learners about tackling climate	<ul style="list-style-type: none"> <li>Ranger-led climate change sessions</li> </ul>	1 session delivered to staff.	Amber	Ranger Service	Education Scotland	Number of Ranger-led sessions	1
		<ul style="list-style-type: none"> <li>Training on climate change for volunteers – including practical action (e.g. tree planting, woody debris dams)</li> </ul>	Profile of Climate Change priority for the NPA raised at Volunteer Ranger induction days.	Amber	Education & Engagement	SNH	Number of climate change volunteer days	1
		<ul style="list-style-type: none"> <li>Develop a case study for schools as part of Curriculum for Excellence with a theme of 'Climate Change in the National Park area'</li> </ul>	Curriculum for Excellence linked online resource produced. <a href="https://www.lochlomond-trossachs.org/park-authority/how-we-can-help/outdoor-learning/education-resources/biodiversity-climate-change-education-pack/">https://www.lochlomond-trossachs.org/park-authority/how-we-can-help/outdoor-learning/education-resources/biodiversity-climate-change-education-pack/</a>	Green		Local authorities John Muir Trust	Case study complete and uploaded to website	1
		<ul style="list-style-type: none"> <li>Inclusion of climate change in John Muir Awards and Junior Ranger programme</li> </ul>	Assessed through JMT Conserve Audit and Junior Ranger programme review. Will be reported next year.	Green			Number of JMA awards & Junior Rangers inc. climate change session	N/A
<b>4 Sustainable Capital infrastructure</b>	<b>What is being done?</b> Reduction in greenhouse gases and energy footprint of our built infrastructure	<ul style="list-style-type: none"> <li>Design and contract administration processes reviewed and improved to reduce footprint (e.g. using recycled materials and improving insulations)</li> </ul>	<p>We are now undertaking redevelopment at Luss, Inveruglas and Tarbet. This fit out work will introduce LED lighting, low water use toilets, improved insulation and recycled materials will be installed where practical.</p> <p>Digital monitoring of our second off grid development at Loch Achray campsite has allowed us to record the CO2 savings being generated by the use of solar panels. This is an improvement over our first campsite (Loch Chon) as this is entirely powered by diesel generator.</p>	Green	Capital Projects	Contractors & Consultants	Carbon and energy footprint of new builds	Loch Achray campsite 419kg CO2 avoided since December 2018
<b>Rural Development</b>								
<b>5 Increasing Climate Change resilience of development</b>	<b>What is being done?</b> Promoting climate change adaptation measures in new developments, through advisory input	<ul style="list-style-type: none"> <li>Design of A83 'Rest and Be Thankful' to include debris catch pits and scrub woodland establishment for slope stabilisation.</li> </ul>	Engaging with BEAR Scotland re: catch pit design and processing with the planning application required for the land purchase and liaison with FES over the fence lines, public access and planting design issues required for the slope stabilisation woodland	Green	Landscapes & Ecology Development Planning	Transport Scotland (& contractors) Local Authorities	Number of referenced climate change adaptation measures within new development	Figures not available yet
		<ul style="list-style-type: none"> <li>Trunk road design of A82</li> </ul>	We have undertaken ongoing liaison with Transport Scotland and the Contractors. Draft Roads Orders and EIA Consultation are expected during 2019.	Green		SEPA Forest Enterprise	Number of referenced climate change adaptation measures within new development	Figures not available yet

		<ul style="list-style-type: none"> <li>Implementation of flood risk policy for ongoing planning applications</li> </ul>	Policy Natural Environment 13 covers flood risk and has been used 16 times in 2018. The policy sets out criteria to ensure development will not be supported that have been identified as being at medium to high risk of flooding. SEPA have been consulted and provided flooding advice 21 times.	Green			Volume of advice given by NPA	16	
<b>6 Mitigating Climate Change impact of development</b>	<b>What is being done?</b> Reduction in greenhouse gas and energy footprint of new development	<ul style="list-style-type: none"> <li>Demonstration of how proposed buildings meet a reduction in greenhouse gas emissions through minimising overall energy</li> </ul>	Climate friendly design in 2018: <ul style="list-style-type: none"> <li>9 out of 28 housing and tourism applications where passive solar gain was considered in terms of siting</li> <li>1 case that considered wind shelter</li> <li>15 out of 27 applications for new buildings did not include low and zero carbon technology (LZCT)</li> </ul> Promoted by these results we have ran an internal training session and are working on a standard checklist requesting applicants to detail, as part of their supporting information, how they considered climate friendly design and low carbon energy technologies.	Amber	Development Planning	Developers Builders & Agents	Number of referenced climate change mitigation measures within new developments	Of the 27 new build applications 12 included LZCT: 7 incl. solar PV or thermal 5 incl. air source heat pump	
<b>Corporate Services &amp; Governance</b>									
<b>7 Being a 'Climate Ready' organisation</b>	<b>What is being done?</b> Embedding Climate Change action as a cross cutting theme into all our areas of work	<ul style="list-style-type: none"> <li>Submission of Scottish Public Body annual Climate Change report</li> </ul>	Annual report prepared and submitted in line with deadline.	Green	Simon Jones & Climate Change Group	Scottish Sustainability Network	Annual report submitted in November 2018	Yes	
		<ul style="list-style-type: none"> <li>Support the Climate Change Group</li> </ul>	The Climate Change group has members from teams across the whole organisation. The group has agreed TOR and takes a lead on supporting and promoting climate change activity across the National Park Authority.	Green			Adaptation Scotland (Sniffer)	Number of Climate Change Group meetings	4
		<ul style="list-style-type: none"> <li>Implementation and annual review of Climate Change Action Plan and reporting to Board</li> </ul>	Action Plan review led by the Climate Change group and inputted into by lead staff from across the organisation.	Green			Action Plan Reviewed & presented to Board	Yes	
		<ul style="list-style-type: none"> <li>Awareness raising and training sessions held for staff and Board to drive behaviour change across the organisation</li> </ul>	Climate Change Awareness Month ran in November 2018 Some Board members present at February 19 10:02 where Climate Change Action summarised	Green			Number of training/awareness sessions held	2	
<b>8 Reducing our carbon footprint and waste levels</b>	<b>What is being done?</b> We will identify and implement opportunities for reductions in greenhouse gas emissions and waste from our operations	<ul style="list-style-type: none"> <li>Management of staff and Board travel to reduce business emissions</li> </ul>	Promotion of e-vehicles to staff and volunteers	Amber	Simon Jones Executive Operational Managers Governance & Board	Scottish Sustainability Network Adaptation Scotland (Sniffer)	Retrospective calculation of business emissions	<b>2017/18</b> Road fleet = 96.7 tCO2e Water fleet = 14 tCO2e	
		<ul style="list-style-type: none"> <li>Reduction in energy use in our buildings</li> </ul>	Energy saving initiatives including replacement of inefficient lighting, renewable heat source and server room air conditioner changed from 19 to 21 degrees C (using less electric).	Green			Retrospective calculation of kWh saved	2017/18 57,000	
		<ul style="list-style-type: none"> <li>Migrating our vehicle fleet to being fully fuel efficient/electric</li> </ul>	6 new electric/hybrid purchased, replacing old diesel/petrol	Green			% of fleet being fuel efficient/electric	Approx. 25% of fleet	
		<ul style="list-style-type: none"> <li>Reduction of physical servers and associated power usage reduction.</li> </ul>	We are currently unable to further reduce our server environment until we begin to move services to the cloud – this is subject to budget being available	Red			Number of servers	N/A	
		<ul style="list-style-type: none"> <li>Ensuring PC's are not being left on at night.</li> </ul>	Messages as part of Climate Change Awareness Month Will monitor compliance in 2019/20 CC Action Plan	Amber			Number of active PCs	Figures not available yet	
		<ul style="list-style-type: none"> <li>Waste and recycling levels</li> </ul>	Volume of waste produced and levels of recycling – currently not known Stopped purchasing single-use plastic cups and cutlery at	Amber			Volume of litter/recycling	N/A	

			Carrochan					
		<ul style="list-style-type: none"> <li>Production of Climate Change e-Learning module for all staff to complete</li> </ul>	Carry forward into 2019/20 plan	Red			E module produced and rolled out	N/A
		<ul style="list-style-type: none"> <li>Incorporation of sustainability into new Procurement Policy</li> </ul>	New Procurement Policy references sustainable practises.	Amber			Procurement Policy produced	No
		<ul style="list-style-type: none"> <li>Service areas to produce an action plan for migrating to paperless operations</li> </ul>	Discussions between Governance and Exec held regarding options for paper-free/reduction	Amber			Service area action plans produced	0