CLIMATE CHANGE ACTION PLAN Review 2019/20

Project	Description	Outputs	Status of Outputs (short commentary)	Status of Outputs (Red/Amber/Green)	Delivery Area Lead	Other Delivery Bodies	Measurements	Figure against measurement One tonne of carbon is equivalent to 3.7 tonnes of carbon dioxide.
Conservation & Land Management								
1 **Carbon capture – woodlands, forests & peatlands**	**What is being done?** Increase carbon capture through expansion of native woodlands and forests and restoration of degraded peatlands	• Creation of Trees & Woodlands Strategy	Trees and Woodlands strategy was produced and launched in 2019	Green	Conservation & Land Management	National Trust Scotland Forestry Commission Scotland Scottish Natural Heritage	Woodland expansion (Ha)	Projected 452ha of Scottish Forestry grants approved
		• Partnership working at Strathard and The Great Trossachs Forest	Key progress been made in relation to working with the community to develop an approach for producing a Land Use and Rural Development Framework for the Strathard area, in order to support future development decisions alongside producing a shared vision for future land use and land management decisions.	Green			Captured as part of woodland expansion and peatland restored metrics	N/A
		• Influencing decisions on woodland/forest design plans	In addition to the sites where grants have been approved, we have responded to consultations on 15 separate forestry plans/ land management plans and developing Forestry Grant proposals.	Green			No. of consultation responses	15
		• Proposed National Park Grants for small-scale tree planting	£11,000 in grants allocated to tree planting. 738 trees to be planted by the end of March 2020. In addition, in 2019, we provided £10,674 of funding to plant 1200 riparian (riverside) trees by the Forth Rivers Trust as part of a 'Cool Rivers' project.	Green			No. of planting projects through grant scheme No. Trees planted through grant scheme	8 738
		• Promotion on forestry grant schemes through Integrated Land Management Plans	Promotion of Trees and Woodlands Strategy to owners and managers. We have secured a 10% grant uplift for the National Park with Scottish Forestry. Ha of planting undertaken is captured through the woodland expansion / peatland restoration metrics.	Amber			Will be captured as part of woodland expansion and peatland restored metrics for 2019/20	N/A
		• Installation of dams and re-profiling of hags at public and private peatlands utilising Peatland Action Funding	Despite funding becoming available for 3 projects in 2019/20 **no** projects were delivered due to: 1. Funding confirmed too late for timescales 2. Contractors overcommitted and therefore unavailable for delivery of works; and 3. Shortage of alternative contractors.	Red			Peatlands restored (Ha/Kms)	0
		• Participation in Moorland Indicators of Climate Change Initiative (MICCI) schools project	17 young people from McLaren High School participated in MICCI in May 2019. A new site at Moorpark was identified. We are working with a PhD student as part of her Citizen Science research, using the MICCI experiments to determine if outdoor	Green			No. of pupils participating	17

			learning has improved information recall than classroom based studies.	Green					
2 **Land management to reduce flood risk**	**What is being done?** Managing woodlands, forests, peatlands and waterways upstream to reduce risk of downstream flooding	• Natural Flood Management techniques trialled in Strathard Project	The Strathard Initiative met in July 2019. SEPA, FLS and Forest Research are continuing to gather baseline monitoring data on a sub catchment of the Duchary. FLS have installed four different designs of leaky woody debris dams and a timber bund and recording these with time lapse cameras. Loss of staff has impacted on further delivery progression.	Amber	Land Management Development Planning	FLS SEPA Stirling Council Community Partnership	Sites under active flood management (Ha)	N/A – expected 2020//21
		• Assessing natural flood management potential of Loch Lomond catchment, as part of Clyde & Lomond Local District Plan	We applied for funding with Transport Scotland endorsement to the Scottish Road Research Board however were unsuccessful. Meeting required with SEPA and Local Authority partners to discuss what should happen now. The same caveat applies that study will only progress if partners identify funding.	Amber			Land under active flood management (Sq.Kms)	N/A – expected once funding has been confirmed
		• Engaging in flood management schemes for Aberfoyle and Callander	The Aberfoyle flood alleviation scheme has submitted to the national prioritisation process for cycle 2 flood protection funding. If successful in securing funding, further consultation work including with the community and other stakeholders will be undertaken. Work is underway to progress the Callander flood protection scheme. The scheme will consist of flood walls within the Meadows car park vicinity protecting business, residential properties and the trunk road from the 1 in 50 year event. It will aim to improve pedestrian safety and enhance the public realm. We have worked to ensure the design and benefits from the scheme complement the Callander built environment. Stirling Council hope to start construction in 2021.	Green			No. of schemes engaged with	2

Visitor Experience

3 **Raising awareness and action through engagement**	**What is being done?** Utilising Rangers, Education and Volunteer teams engage with public and learners about tackling climate	• Ranger-led climate change sessions	Ranger Service winter working group has developed resources that include age and stage appropriate Climate messages. From March 2020, this will be included within all education delivery. This is fundamental ground work to ensure consistent application in delivery for the 20/21 year.	Green	Ranger Service Education & Engagement	Education Scotland SNH Local authorities John Muir Trust	Number of Ranger-led sessions	1
		• Training on climate change for volunteers – including practical action (e.g. tree planting, woody debris dams)	Profile of Climate Change priority for the NPA raised at Volunteer Ranger induction days to over 65 Volunteers. New metric developed to measure the number of hours of volunteer activity spent on positive climate action projects within the NP, such as tree planting.	Green			Number of climate change volunteer training days Number of hours of climate action undertaken by volunteers	1 day 1036 hrs
		• Develop a case study for schools as part of Curriculum for Excellence with a theme of 'Climate Change in the National Park area'	Curriculum for Excellence linked online resources on water vole and beaver reintroduction, marine and freshwater environments, and the role of trees and woodlands will be produced by the end of March 2020 and uploaded to reviewed website content	Green			Case study complete and uploaded to website	3
		• Inclusion of climate change in John Muir Awards and Junior Ranger programme	Assessed through JMT Conserve Audit and Junior Ranger programme review. Will be reported in 20/21	Green			Number of JMA awards & Junior Rangers incl. climate change session	Data available in 20/21
4	**What is being done?**	• Design and contract administration processes	We have undertaken redevelopment at Inveruglas and Tarbet. This fit out work introduced LED lighting, low water use toilets, and improved insulation. Installation is still in its infancy so	Green	Capital Projects	Contractors & Consultants	Carbon and energy footprint of new builds	Loch Achray campsite Annual

Sustainable Capital infrastructure	Reduction in greenhouse gases and energy footprint of our built infrastructure	reviewed and improved to reduce footprint (e.g. using recycled materials and improving insulations)	savings are not yet known. With the introduction of vehicle charging points at Inveruglas to support eVehicle infrastructure, we are likely to see an increase in electricity use, to enable a wider emission saving. 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.	Green				Production: approx. 2,075 kWh CO2 avoided: Approx. 1.5 tons per annum

Rural Development

5 Increasing Climate Change resilience of development	**What is being done?** Promoting climate change adaptation measures in new developments, through advisory input	• Design of A83 'Rest and Be Thankful' to include debris catch pits and scrub woodland establishment for slope stabilisation.	Ongoing engagement with BEAR Scotland re. designs for next phase of works to extend catch pits beyond those completed in 2019.	Green	Landscapes & Ecology Development Planning	Transport Scotland (& contractors) Local Authorities SEPA Forest Enterprise	Number of referenced climate change adaptation measures within new development	Figures not available yet
		• Trunk road design of A82	We have undertaken ongoing liaison with Transport Scotland and the Contractors including further discussions about expected woodland losses and ambitious requirements for mitigation and compensatory woodland creation. Draft Roads Orders and EIA Consultation are now expected sometime during 2020.	Green			Number of referenced climate change adaptation measures within new development	Figures not available yet
		• Implementation of flood risk policy for ongoing planning applications	Policy Natural Environment 13 covers flood risk, this provides a measure of how many times the policy has been used. 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. This measure will be reviewed in future.	Amber			Volume of advice given by NPA	8 instances
6 Mitigating Climate Change impact of development	**What is being done?** Reduction in greenhouse gas and energy footprint of new development	• Demonstration of how proposed buildings meet a reduction in greenhouse gas emissions through minimising overall energy	In 2019, 21 applications included Low or Zero Carbon Technologies (note a few applications used more than one technology) 3 applications used biomass boilers 4 applications used air source heat pumps 2 applications used Ground source heat pumps 7 applications used solar panels 1 application used wind power And 8 applications did not yet specify what type of technology they used, but a planning condition was put on ensuring that renewable energy measure will have to be secured. Monitoring of these conditions is essential moving forwards to ensure compliance.	Amber	Development Planning	Developers Builders & Agents	Number of referenced climate change mitigation measures within new developments	Of the 25 applicable applications 21 included LZCT

Corporate Services & Governance

7 Being a 'Climate Ready' organisation	**What is being done?** Embedding Climate Change action as a cross cutting theme into all our areas of work	• Submission of Scottish Public Body annual Climate Change report	Annual report prepared and submitted in line with deadline.	Green	Climate Change Group	Scottish Sustainability Network Adaptation Scotland (Sniffer)	Annual report submitted in November 2019	Yes
		• Support the Climate Change Group	The Climate Change Group has members from teams across the whole organisation. The group is currently being reviewed, with the priority to take a lead on the implementation of the Mission Zero Route Map.	Green			Number of Climate Change Group meetings	4
		• Implementation and annual review of Climate Change Action Plan and reporting to Board	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

		• Awareness raising and training sessions held for staff and Board to drive behaviour change across the organisation	Climate Change Awareness week ran in October 2019	Green			Number of training/awareness sessions held	1
8 **Reducing our carbon footprint and waste levels**	**What is being done?** We will identify and implement opportunities for reductions in greenhouse gas emissions and waste from our operations	• Management of staff and Board travel to reduce business emissions	Promotion of eVehicles to staff and volunteers, through hands on familiarisation sessions and short easy to watch video clips.	Amber	Executive Operational Managers Governance & Board	Scottish Sustainability Network Adaptation Scotland (Sniffer)	Retrospective calculation of business emissions	**2018/19 Road fleet** = 67.6 tCO2e **Water fleet** = 23.6 tCO2e
		• Reduction in energy use in our buildings	We have purchased new lighting for Duncan Mills Memorial Slipway to change all fittings to LED, installation to follow when budgets allow. We continue to manage the air conditioning unit in server room to minimise energy use. Reductions in associated emissions are based largely on amendments to emissions calculation factors, rather than significant organisational reductions.	Green			Retrospective calculation of kWh saved	2018/19 use figures were 223.8tCO2e, a 38% reduction from our baseline figures in 2013/14
		• Migrating our vehicle fleet to being fully fuel efficient/electric	We have increased our proportion of eVehicles to 10 fully electric vehicles and 3 hybrids as part of the vehicle fleet.	Green			% of fleet being fuel efficient/electric	Approx. 37% of fleet
		• Reduction of physical servers and associated power usage reduction.	ICT has consolidated the network equipment as part of the LAN (Local Area Network) replacement and migration to SWAN (Scottish Wide Area Network) which will see less approx. 5 less devices on the network	Green			Number of servers	N/A
		• Ensuring PC's are not being left on at night.	Messages as part of Climate Change Awareness Month ICT policy has also been reviewed with the inclusion of a specific section around sustainability and the active decision making around equipment use and need.	Green			Number of active PCs	Figures available in 20/21
		• Waste and recycling levels	Volume of waste produced and levels of recycling – base line data gathered for HQ, Balmaha Visitor Centre, Duncan Mills Memorial Slipway (including publically accessible general and recycle waste bins), Callander and Lochearnhead buildings and Land Operations unit. This does not cover any large general waste generated through our Land Operations team, which gets taken directly to landfill.	Amber			Volume of litter/recycling	**Baseline** General waste: 64.71 tonnes per annum, Recycling : 43.36 tonnes per annum, Compostable waste: 2.5 tonnes per annum
		• Production of Climate Change e-Learning module for all staff to complete	E module available to staff.	Red			E module produced and rolled out	Yes Uptake stats = 36/149 staff
		• Incorporation of sustainability into new Procurement Policy	Procurement Policy still to be reviewed. Carry forward to 20/21	Red			Sustainable Procurement Policy produced	No
		• Service areas to produce an action plan for migrating to paperless operations	At the 18th March 2019 Board meeting members discussed migrating to paperless operations for the Board and agreed to set the aim of reducing paper use by 75% in a year. Current progress is at 50% reduction within the year. The Executive team are now working paperless along with 8 Board members.	Amber			Teams with paperless operations	1