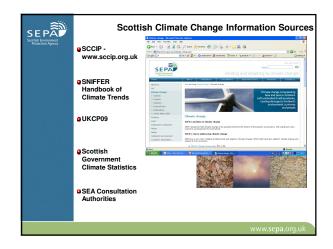
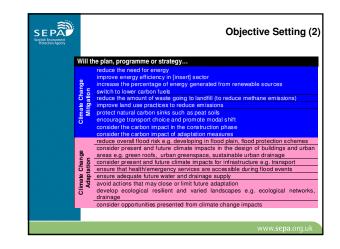


SEPA Scottish Environment Protection Agency	Climate Change in SEA Guidance					
	1. Introduction –	Includes: Background to climate change, Scotland's greenhouse gas emissions, observed climate trends, summary of UKCP09 for Scotland				
	2. Screening	Summary of typical effects of certain plans on climate change adaptation and mitigation to help consider whether a plan will lead to significant environmental effects				
	3. Scoping	Includes: List of climate related plans, programmes and strategies, list of information sources to inform the baseline and advice on how to scope in and scope out climatic factors				
	4. Assessment	Includes: Examples of typical impacts of certain plans on climatic factors –examples of climate change objectives and advice on considering cumulative and other effects				
	5. Adoption and Monitoring	Provides advice on potential monitoring indicators				
	Appendices	Including: technical glossary, links to information sources and a full summary of potential impacts of climate change on Scotland.				





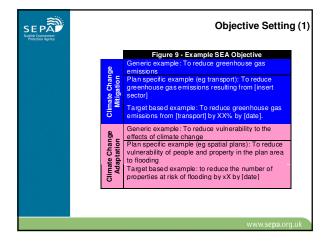
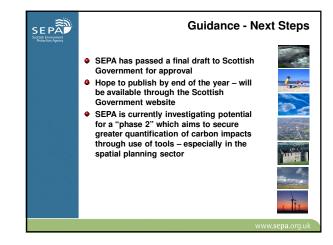
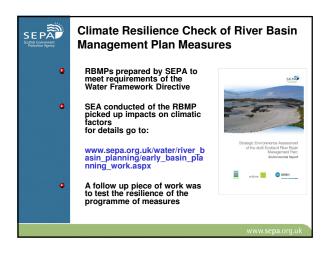


		FIG	ure 12 - Typical	Linfluences on camatic factors from land use Development Plans					
Pian Type	Reduce all GHG emissions	C Reducing impact of transport through a reduction in the need to travel and modal shift	Imate Change N Red ucing energ y use, increasing energ y efficiency and enabling renew able energ y	litigation Reducing Resource Use – eg Reducing waste to landfill	Reduce carbon loss from soils	Resilience to increase in precipitation flood risk and flooding	ate Change Ade Resilience to increase in high winds and storminess	ptation Resilience to warmer climate, droughts and heat waves	Resilience to erosion and landslides
Spot lal Dev dopment Plans	Iromota hojh eserery stridency standards Use solar gain through design housing at hajhar daraf d	Locate and the second s	generation Entropy Entropy renewables or in development developmen	And contrast the off of the off the off of the off off off off off off off off off of	Front Spall solid from los 2 / available davalop met davalop met Protect past solid from los 2 / available met davalop met davalop werd from met class available met davalop werd available werd available met davalop met davalop werd available werd available met davalop met davalop werd available werd avail	Avoid fundaments in flood risk area – carry seessmooth area – carry seessmooth area for the seessmooth area area area area area area area are	Consider whether exists a behaling or the second purpose under set under set	Desperator everygene neuro heads for cooling desages of green mode Consider and and the second desages planning new development aver of the cooling development aver of the cooling development aver of the cooling development aver of the cooling development aver of the cooling development aver of the cooling development aver of the cooling development aver of the cooling development development aver of the cooling development development aver of the cooling development de	A void nume development in areas at ras som ine luding coastal e void a void a void e void a void a void e void a void a void e void a void a void cover





	ce to the impacts of climate cl			
Mil the measure be realient to increase precipitation and increase in heavy ainfall events?	Will the measure be resilient to less precipitation and droughts (e.g. drier summers, low flows, less snow melt)?	Will the measure be realient to increased temperatures?	Will the measure be reallient to the effects of climate change on biodiversity?	Will the measure be resilient to futur sea level rise?
Reduce diffuse source inp	uts: provide first time sewe	rage		
deasure is likely to be resilient to increased receiptation and heavy rainfall events. However new trainment works will need to be have enough capacity and be able to pe with more entreme weather events. It is essential that new infrastructure is climate proofed".	Measure III Melly to be realisent to less precipitation and discuptis. However new treatment works discharges will need to take into account low flows leading to reduced dilution of ellivant and increasing concentration of pollutants.	Good mellence and flexibility to predicted dimate change	Good resilience and fiesbility to predicted dimate change	Dood resilience and flexibility to predict climate change
CAR 2005: levels of a	ostraction, managemen	t of dams and efficient	use of water	•
dessure in likely to be realisent to increase oreopitation and heavy rainfall events. Nonever, management of dams will need o consider increased likelhood of spills inder future climate.	precipitation and droughts. However,	Measure is likely to be realisent to lease problem and decopits. However, need to conside possible need for more freahets in warmer dryer summars. Increased temperatures may also result in increased demand.	Measure is likely to be realisent to effect to dimate change on biodiversity. However, introduction of new corps either as biolusts or food crops, change of nange for arabie production may result in increasing water demands.	Bood resilience and flexibility to predict climate change
CAR 2005 control abstraction: c	ontrol pattern/timing of abstraction	on (hands off flow/utilisation of s	torage (new/existing))	
CAR 2005 control abstraction: p	rovide appropriate baseline flow	regime downstream of impound	ment	
	rovide higher flows as appropria	•••••	the second s	
	rovide higher flows as appropria			
Assumes are likely to be resilient to increased precipitation and heavy minfall reverts. However, baseline flow conditions spainst which the flow regimes are set will need to be updated periodically to reflect timate change.	Measures are likely to be realient to less precipitation and droughts. However, baseline flow conditions against which the flow regimes are set will need to be updated partocleally to mited to be reduction in niver flows due to periods of drought and indication in available water resource.	Measures are likely to be realisen to increased tempertures. However, higher compensation flows may be required to provent water temperatures exceeding habitable conditions and to take into account increased demand and reduction of increased temperature.	Good resilience and flexibility to predicted dimate change	Good realiance and flexibility to predict climate change

