

# Green Investment Plan - Cumbria

## Living and Natural Resources



Green Investment Plan, Cumbria

### Recommendations

In total, they require an investment of £0.91bn and this could save 6.2m tCO<sub>2</sub>e over the next 10 years, and over 43m tCO<sub>2</sub>e over 60 years<sup>4</sup> and create 1,500 full-time equivalent jobs. To help achieve these opportunities, a number of recommendations are made:

- NC-A: Establish a Cumbrian Environmental Community Interest Company.
- NC-B: Establish a Warehousing Body for Environmental Credit Trading in Cumbria.
- NC-C: Establish an Agri-Innovation Hub.
- NC-D: Maximise Private Sector Investment Leveraged by ELMS Scheme in Cumbria.



[www.greeninvestmentplancumbria.net](http://www.greeninvestmentplancumbria.net)



**Table 1: Investment Opportunities**

Opportunities	Scale of Investment	Carbon Savings (tCO2e)		Potential Returns From
		10 yrs	60 yrs	
<b>1. "Now" Investor Ready Propositions</b>				
<b>Woodland and Peatland</b>				
NC1: Finance for 7,000 ha of community woodland creation in Cumbria over the next 10 years.	£42m	350,000	1.7m	Carbon, public health, regeneration
NC2: Finance for 30,000 ha of peatland restoration in Cumbria over the next 10 years.	£378m	2.75m	22m +	Carbon, biodiversity credits, water quality improvement
<b>Agricultural Innovation</b>				
NC3: Establish lower carbon livestock enterprises on 50,000 ha of grassland in Cumbria over the next 5 years.	Opportunity cost: £140m PV 50	85,000	425,000	Carbon, product premium, catchment markets
<b>2. "Next" Investor Propositions</b>				
<b>Agricultural Innovation</b>				
NC4: Establish agro-forestry on 10% of Cumbrian farmland (50,000 ha) in the next 5 years.	£50m	3m	15m	Carbon, farm productivity, biodiversity credits, catchment markets
<b>Catchment Trading Platforms</b>				
NC5: Support adoption of market approaches in the majority of catchments.	£175m	Indirect – reduced energy use, e.g. in water treatment	Nutrient pollution reduction, flood risk reduction, siltation reduction.	
<b>3. "New" Investor Propositions</b>				
<b>Agrivoltaics</b>				
NC6: Establish agrivoltaics on 10% of Cumbrian farms in next 5 years	£260m	850,000	4.25m	



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# Living and Natural Resources Next



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## Agroforestry

Opportunities	Scale of Investment	Carbon Savings (tCO <sub>2</sub> e)		Potential Returns From
		10 yrs	60 yrs	
<b>2. "Next" Investor Propositions</b>				
<b>Agricultural Innovation</b>				
NC4: Establish agro-forestry on 10% of Cumbrian farmland (50,000 ha) in the next 5 years.	£50m	3m	15m	Carbon, farm productivity, biodiversity credits, catchment markets



Silvopastoral

# Agro-forestry

Silvoarable

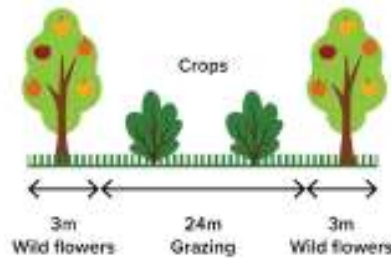
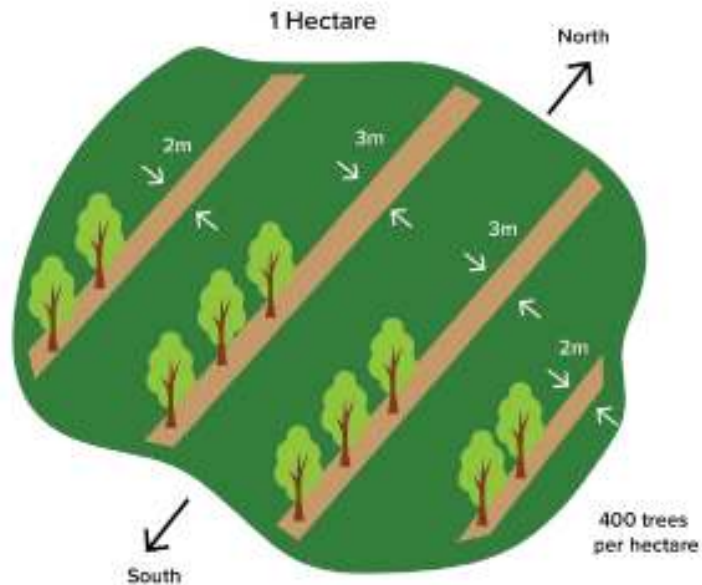


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# Agroforestry



Agroforestry Alley Cropping



Trees at 5 metre spacing



Don't dither  
- plant trees!  
At first I was worried about the loss of grazing land from the double fenced hedges but even within the first season I was convinced of their value."

Nic Renison,  
Cumbrian sheep farmer



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# Living and Natural Resources-New



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## Agrivoltaics

Opportunities	Scale of Investment	Carbon Savings (tCO2e)		Potential Returns From
		10 yrs	60 yrs	
<b>3. "New" Investor Propositions</b>				
<b>Agrivoltaics</b>				
NC6: Establish agrivoltaics on 10% of Cumbrian farms in next 5 years	£260m	850,000	5.1m	Energy production, carbon, farm energy use

# Agri-voltaics

Potential increased crop yield (lower transpiration) plus revenue from land rental, savings in costs of energy supply for the farm and energy sold to the grid.



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850KW per hectare  
£490k per hectare

Maybe 1% of farmland

