Ecosystem engineers



Improves water quality

Seagrasses are natural filters – filtering, cycling and storing nutrients and pollutants out of water. One study estimated the economic value of seagrass impact on water quality to be £25,000/ha/yr.



Supports biodiversity

Healthy seagrass habitat can house up to 30 times more animals than bare sediment, including seahorses and shellfish



Provides a nursery habitat

Seagrasses provides nursery habitat for nine UK commercial fish species.



Cultural value

Seagrasses have long provided cultural benefits – from weaving to roof thatching – however, today knowledge of their full potential for use has declined.



Carbon storage

Seagrasses occupy less than 0.1% of the seafloor yet are responsible for 10-18% of the organic carbon buried in the ocean. Global analysis indicates that seagrass meadows can absorb carbon at rates of up to 35 times that of tropical rainforests.



Reduces wave energy

Seagrasses help prevent coastal erosion, protecting coastal towns from flooding and storm damage.



Disease control

Seagrasses help prevent diseases for people and sea creatures by reducing pathogenic marine bacteria by up to 50%.



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Globally, seagrass meadows help provide vital nutrition for close to 3 billion people through being a nursery habitat for fish.

Native Oysters

Improves water quality

A single native oyster can filter more than 200 litres every day. It removes pollutants, chemicals, and particulate matter to improve water quality. This can benefit the recovery of seagrass and other coastal ecosystems.



Supports biodiversity

The complex structure of native oyster reefs provides a sanctuary for a vast array of marine life including fish, crabs, sea snails and sponges.



Provides a nursery habitat

Native oyster reefs can provide nursery grounds and a source of food for juvenile fish and shellfish.

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Cultural value

Native oyster fishing and cultivation have been at the heart of coastal communities in the UK for centuries.



Carbon storage

Current research shows that native oyster reefs store carbon. Further research is underway to establish the scale of this potential.



Native oysters remove excess nutrients from water, particularly nitrogen, which can be detrimental to our marine ecosystems, promoting harmful algal blooms, depleting oxygen and causing fish mortality.



Stabilises the seabed

Native oyster reefs stabilise the seabed, improving water clarity.



Nutrition

Native oysters provide a low carbon, low impact food source.