

## **CIRCULAR ECONOMY IN ENERGY**

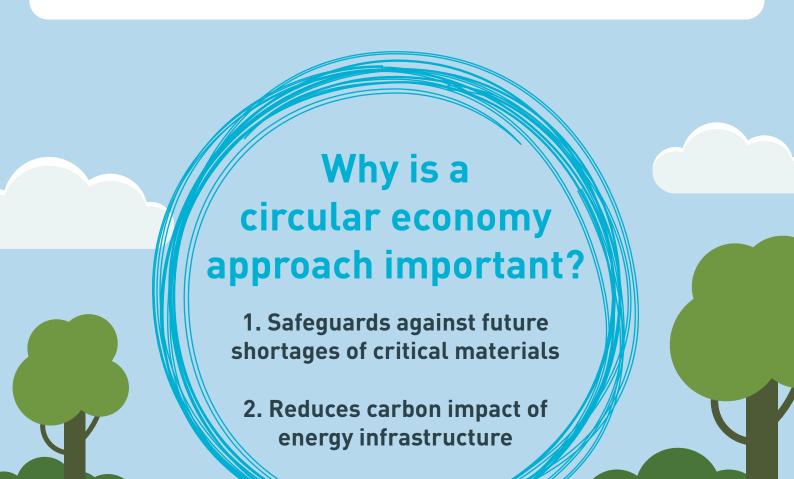
50% of Scotland's energy will be supplied from renewable sources by

2030

## **ENERGY**



But what about the materials needed to make this happen? Moving to new clean technologies requires raw resource extraction and increased material use.



## Wind turbines



Turbines typically have an asset life of 25 years.

The first onshore wind farms installed in Scotland are now ready to be replaced.

The new generation of offshore turbines will be 250m tall and each one will weigh nearly 1,000 tonnes

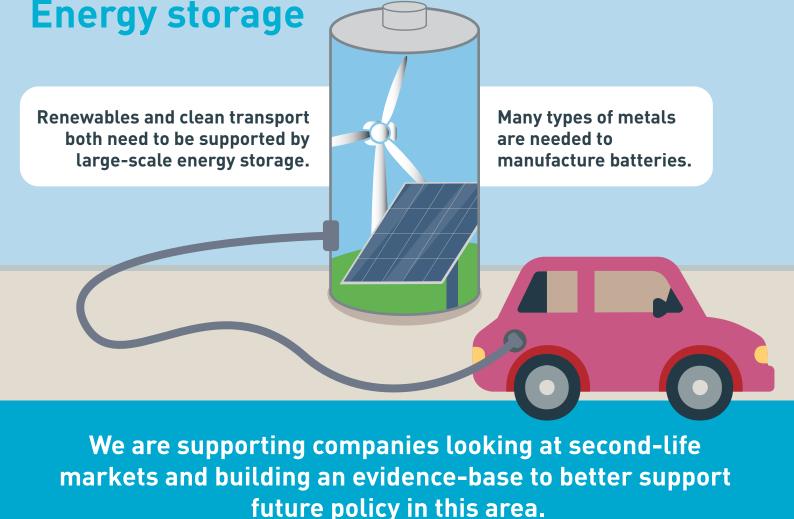
Blades are made from

composites which are not currently recycled at scale.

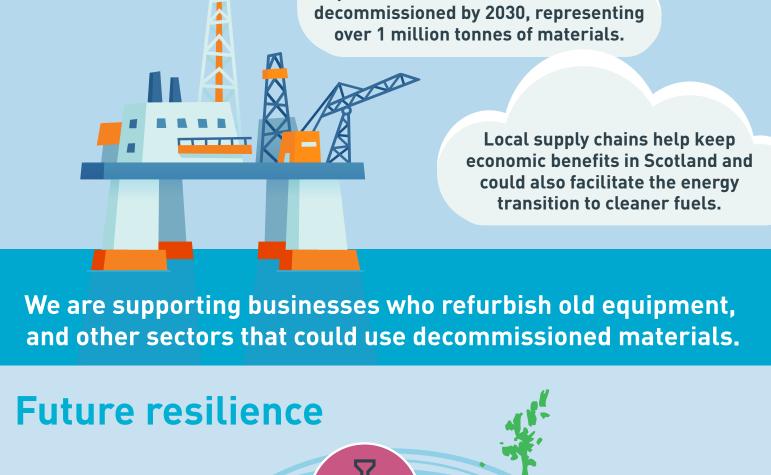


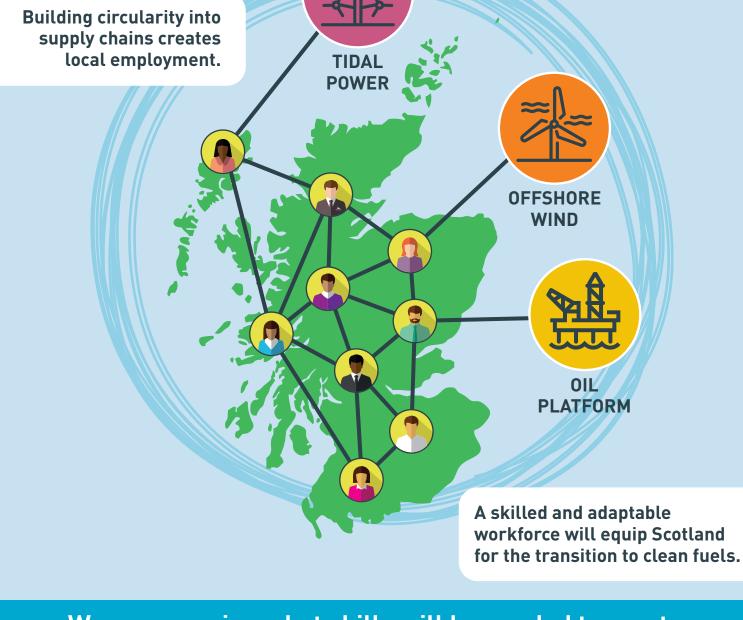
to scale up reuse and recycling solutions in Scotland.

We are working with operators and technology developers



Oil and gas At least 60% of oil and gas platforms in the North Sea will be





We are mapping what skills will be needed to create a more circular and resilient Scottish energy sector