Our world is changing fast

Climate change a ‘global emergency’

Technology is crucial to achieving NetZero
Switch to renewable energy
Reduce energy use, capture waste energy
Control emissions, cut pollution
Tin is already enabling the transition

Digitalisation will revolutionise the way we live

The fourth industrial revolution - machines, biology & data
New communications networks
Sensors in everything to measure and relay data
Artificial Intelligence (AI) will coordinate systems
Tin is the glue that will hold everything together
Global solar targets rely on tin

The silver strip across the front of solar panels is tin
A tin solder coated onto a copper ribbon
The ribbon connects the modules together and conducts the electricity
Also used in junction boxes and power electronics solder joints
74 tonnes of tin is used per GW
Electric vehicles use twice as much tin

EVs use 1000g tin vs 500g in ICE

- Power electronics
- Wiring & connectors
- Charging stations

Power electronics solder joints are much bigger
Tin is also used in bronze wires and tinned connectors
Charging stations also use tin and tin-copper