E9.2

UNIT E9 · WORKSHEET

Impacts and emerging technology

UNIT PROGRESS

Core BUILD THE BASICS

C1 **State** the three types of impact. [1]

C2 **State** one greenhouse gas. [1]

C3 **State** what makes a technology 'emerging'. [1]

C4 **State** the type of impact: 'new jobs at a port'. [1]

C5 **State** the type of impact: 'river habitat is flooded'. [1]

C6 **State** the type of impact: 'quicker journeys to hospital'. [1]

C7 **State** the type of impact: 'lower electricity bills'. [1]

C8 **State** one renewable source of energy. [1]

C9 **State** one way an electronic system can save energy in a building. [1]

Stretch GO FURTHER

S1 **Explain** how a microcontroller that switches off empty office lights helps the environment. [2]

Impacts and emerging technology

S2 **Describe** one positive economic impact of a new offshore wind farm. **[1]**

S3 **Describe** one negative social impact of a new wind farm near a village. **[1]**

S4 **Explain** how a thermostat that controls a house's heating helps to limit climate change. **[2]**

S5 An answer says 'Solar panels are good for the planet.' **Explain** why it gains no marks and improve it. **[2]**

Exam Ready QUALIFICATIONS SCOTLAND STYLE

E1 **Describe** one social and one environmental impact of an electric ski lift. **[2]**

E2 **Describe** an emerging technology that could be used in a ski centre, and its benefit. **[2]**

E3 Kinbrae (fictional) plans a tidal turbine. **Describe** one economic and one environmental impact. **[2]**

Impacts and emerging technology

E4 **Explain** one benefit of using an emerging technology in a new product. **[2]**

Total: 25 marks. Use the Data Booklet. Show your working and give units.