

## **Resource saving innovations**

### **Quiz**

What is one of the biggest challenges in the green technology world?

- A. Water scarcity
- B. Energy production
- C. Energy storage
- D. Air pollution

What percentage of electricity bills does Powervault UK claim its battery storage can reduce?

- A. 5-10%
- B. 20-35%
- C. 40-50%
- D. 60-75%

What is the advantage of OLEDs over traditional bulbs and LEDs?

- A. They are cheaper.
- B. They last longer.
- C. They emit a more natural light.
- D. They contain bad metals.

What fuels can fuel cell micro CHP systems operate on?

- A. Only hydrogen
- B. Methanol, chlorine, and hydrogen-rich options
- C. Gasoline and diesel
- D. Solar and wind energy

What is the advantage of the new intelligent heat pumps over traditional systems?

- A. Higher installation cost
- B. Single-speed compressor
- C. Reduced energy consumption and increased heating capacity
- D. Limited efficiency in colder climates

What percentage of the UK's total carbon emissions does gas-powered domestic heating account for?

- A. 20%
- B. 35%
- C. 47%
- D. 60%

What distinguishes IR heaters like Herschel IR heaters from regular electric heaters?

- A. They are less efficient.
- B. They warm the air.
- C. They warm objects and reduce condensation.
- D. They are not suitable for damp climates.

According to the Energy Saving Trust, what is predicted about grid-based electric heating by 2050?

- A. Higher carbon emissions than gas boilers
- B. Lower carbon emissions than an A-rated gas boiler
- C. No change in carbon emissions
- D. Dependence on temperamental boilers

What is the main challenge in renewable energy regarding its availability throughout the day or year?

- A. Energy production
- B. Energy storage
- C. Grid reliability
- D. Energy consumption

What is the promise of fuel cell micro CHP systems in relation to traditional boilers?

- A. They are difficult to replace.
- B. They are less efficient.
- C. They are an easy replacement for traditional boilers.
- D. They cannot operate on renewable fuels.

2. Write down the new words and translate them

3. Summarize the key points from the entire article and identify common themes or trends in sustainable technology. Write a reflective essay discussing the potential

impact of these emerging technologies on the environment, energy consumption, and economic factors. Consider the challenges and opportunities associated with the adoption of these technologies on a larger scale.