

Solutions

Each answer shows the steps, then the **result**.

2.1

- Any one: burning wood/crop waste, ethanol, biodiesel

2.2

- Growing it absorbs the same CO₂ that burning releases

2.3

- Any one: competes with food, uses land/water/fertilizer, air pollution

3.1 B

- absorbs the CO₂ that burning releases

3.2

(a)

- Benefit: renewable and near carbon-neutral; drawback: competes with food or causes air pollution

(b)

- It is renewable only if the plants are regrown as fast as they are burned; otherwise the resource is depleted

3.3

- Biomass returns recently-absorbed CO₂ (near carbon-neutral), while coal releases carbon stored for millions of years, adding new CO₂ to the atmosphere