

Solutions

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

2.1

- Falling/flowing water (from the dam)

2.2

- Any one: renewable, no CO₂, reliable, water storage/flood control

2.3

- Any one: floods habitat, displaces people, blocks fish, traps sediment

3.1 B

- blocks fish migration and floods habitat

3.2

(a)

- Benefit: clean, reliable, renewable power; cost: flooded habitat / displaced people / blocked fish

(b)

- The dam blocks migrating fish (unless fish ladders exist) and traps sediment, starving downstream areas of nutrients

3.3

- It uses the water cycle (endlessly replenished by rainfall) to generate power and burns no fuel, so it emits no CO₂ during operation