Teacher Answer Key

Case Study

1. Traceability ensured high-quality sorting and tracking of recycled steel batches for efficient remelting.

2. Mandating low-carbon steel in public projects guaranteed market demand, incentivizing recycling investments.

Multiple Choice

1. C

2. A

3. B

Matching

1-B, 2-C, 3-A, 4-E, 5-D

Fill-in-the-Blank

1) resource, 2) microbes, 3) demand

Short Answer (Sample Responses)

Q1: Benefit: significantly lower carbon emissions; Challenge: high electricity costs and grid reliance.

Q2: Consumers receive refunds when returning items, motivating proper disposal and increasing collection rates.

Q3: By assigning a cost to emissions, carbon pricing makes CCU economically attractive compared to emitting CO_2 for free.