

**34** A cell of electromotive force (e.m.f.)  $E$  delivers a charge  $Q$  to an external circuit.

Which statement is correct?

- A** The energy dissipated in the external circuit is  $EQ$ .
- B** The energy dissipated within the cell is  $EQ$ .
- C** The external resistance is  $EQ$ .
- D** The total energy dissipated in the cell and the external circuit is  $EQ$ .