NATIONAL 5 ENGINEERING SCIENCE · UNIT E3

Electrical energy and power

How much energy electronic products use, how fast, and how much of it is wasted.



BY THE END OF THIS UNIT YOU CAN

- calculate electrical energy with $E_e = VIt$
- calculate power with $P = VI = V^2/R = I^2R$
- calculate efficiency
- complete an energy audit

IN THE EXAM

Energy questions are worth **5–10** of the **110** marks, across electrical and mechanical contexts.