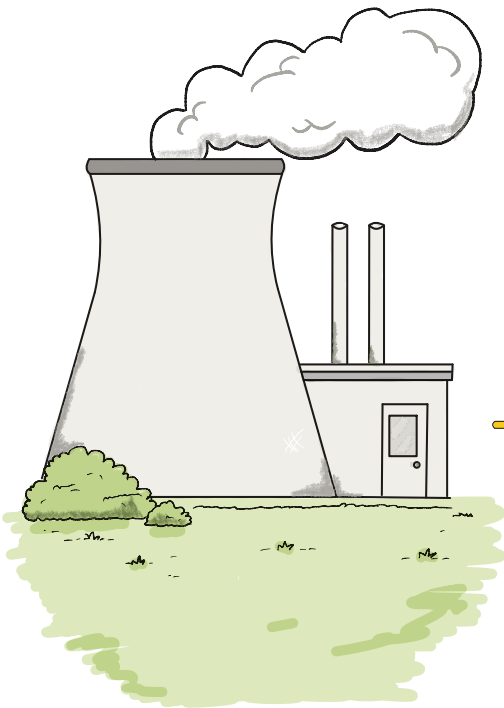
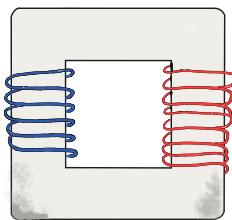


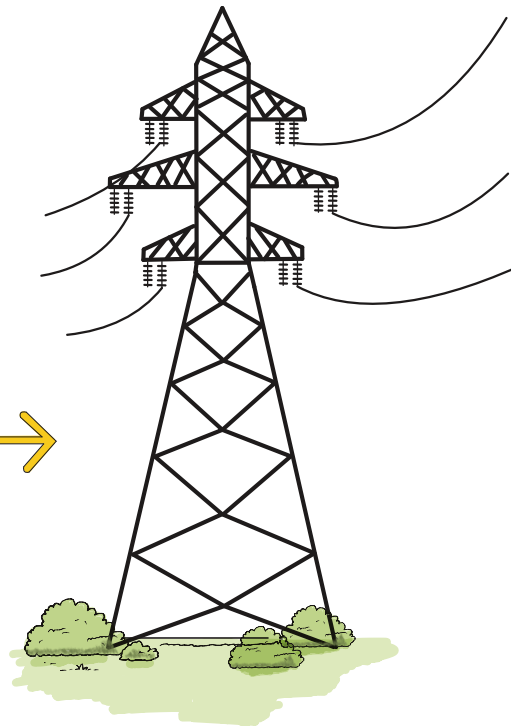
power
station



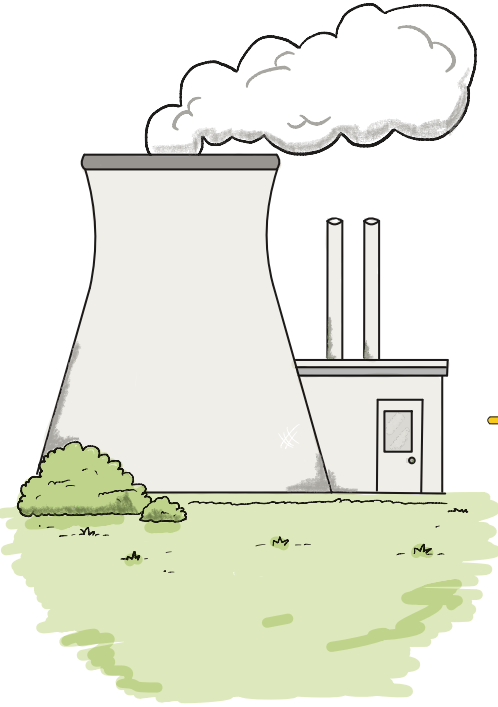
step up
transformer



high voltage
transmission cables

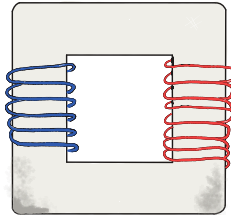


power station



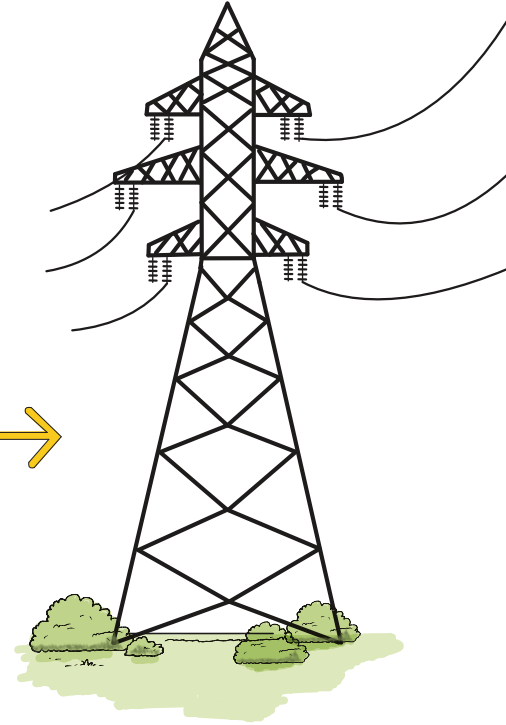
- generates electricity

step up transformer



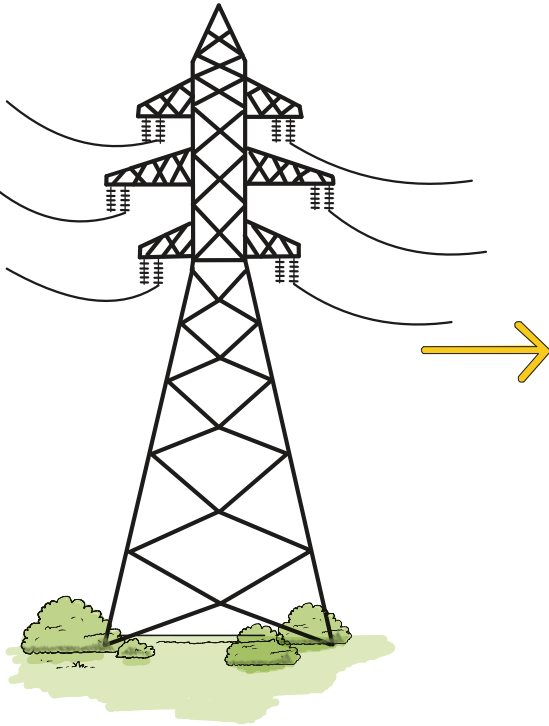
- increases potential difference (V)
- decreases current

high voltage transmission cables

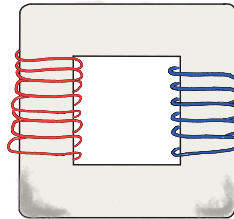


- low current
- less thermal energy transferred to surroundings (wasted)

high voltage
transmission cables



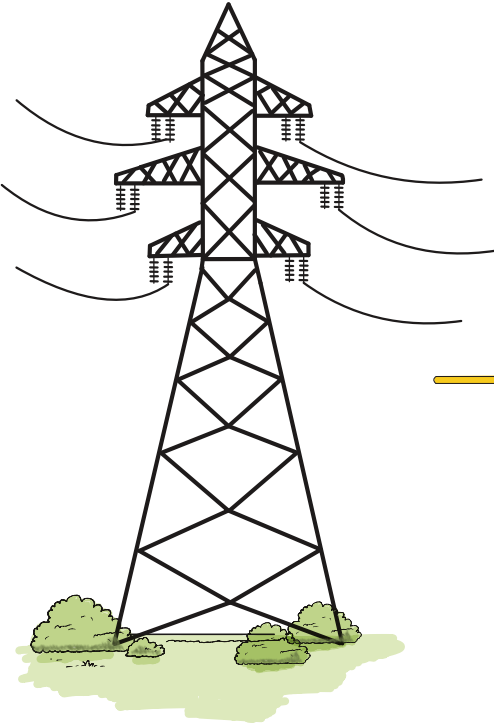
step down
transformer



homes and businesses
(230 V)

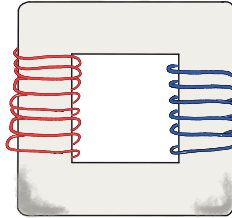


high voltage
transmission cables



- low current
- less thermal energy transferred to surroundings (wasted)

step down
transformer



- decreases potential difference (V)
- increases current

homes and businesses
(230 V)



- electricity transferred to appliances

The National Grid

