

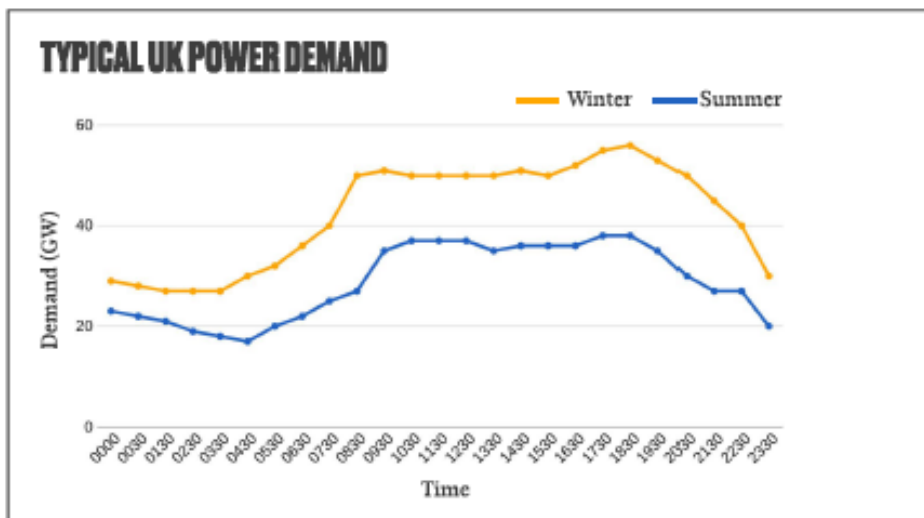
This worksheet has been taken from the Practical Action Wind Power Challenge. Find it here <https://practicalaction.org/schools/wind-power-challenge/> on the Practical Action website with lots more ideas and activities about wind power.

Power to the people - Primary

Name: _____

Class: _____

1. Here is a graph showing how power varies throughout the day and at different times of the year:



Source: National Grid

1. At what time in the morning does the power start to go up in the winter?
2. Why do you think a lot of power is needed then?
3. What is the highest amount of power that we use in the winter?
4. Why do you think we use more power in the winter than in the summer?



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5. What is the difference between the amount of power used in winter and summer at 16.00?

6. Why do you think there is a big increase in power use from about 16.00 to 17.00 in the winter that doesn't happen in the summer?

7. 1 MW can power 700 houses in the UK.

If a house in Peru only uses about 10% of the power used in the UK, how many houses could 1 MW power in Peru?

8. If a large wind turbine can produce 2 MW, how many houses could it power:

a) in the UK?

b) in Peru?



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