

Investigation 3 Supply and demand

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The power supply business is all about matching supply with demand. When the city wakes up in the morning, and millions of people make breakfast or start working, the demand for electricity and gas goes up.

It's the energy companies' job to supply the energy to meet consumer demand. Without adequate supply there would be blackouts and power shortages.

With GreenPower, it is not only supply that is important but also source.

GreenPower customers need to receive electricity from wind, solar or hydro sources. So the energy company needs to buy enough GreenPower from these sources to meet the demand.

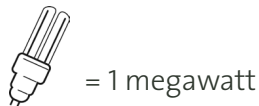
In the picture below we have a big city with millions of people. On a cold winter's day (when heaters are on and most people are at work) the city uses 10 megawatts of power.



In this city, two in every 10 households and businesses (or 20 per cent) buy GreenPower.

Step 1

In the table below, colour in the globes beside each type of power to show how you would supply at least 20 per cent of the power from green energy sources.



Colour in 10 globes to represent 10 megawatts of power. Make sure that at least two megawatts come from GreenPower renewable sources.

Energy source	Each globe = 1 megawatt	Can you name a place where this power comes from?
Coal		
Hydro		
Solar		
Wind		

Step 2

In the third column, list places where each type of energy would come from to provide electricity for the city. You can look online for the location of GreenPower sources at www.ga.gov.au/map/orer/.