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Supergrid

Teams compete as different countries in Europe to generate electricity. They need to build their own wind turbine towers out of K'Nex and blades out of card, before competing in rounds to try and generate electricity at the lowest price possible whilst still breaking even (making the smallest profit). It's a competitive, fun and engaging atmosphere.

*Suitable for:
KS2 and KS3
students*

Unique Selling Points

- Data is remotely gathered from each team and displayed through a central console so students can see the energy their team and other teams are generating in real time.
- Competition rounds mean that teams compete to generate electricity at the lowest price possible.
- Level of challenge can be varied to allow access by all ability levels.

Two different ways of displaying the energy generated by each team live: a gauge or a graph

The collage includes:

- Two versions of the game interface: one with gauges and one with graphs, both showing 10 European countries (Norway, Sweden, Finland, Denmark, Ireland, Germany, France, Belgium, Netherlands, UK) with their respective flags and power output (0-30 mW).
- A central map of Europe with red lines connecting cities.
- A student in a white shirt working on a wind turbine model made of K'Nex and card, with a Danish flag attached.
- A table titled 'Points awarded for each round' showing a ranking of 10 countries.
- A table with columns: Country, Cost of tower and blades, Surplus energy, Surplus energy, Price per unit, Profit, and Points.

Rank	Country	Points
1	Netherlands	10
2	Belgium	9
3	France	8
4	UK	7
5	Germany	6
6	Ireland	5
7	Denmark	4
8	Finland	3
9	Sweden	2
10	Norway	1

Country	Cost of tower and blades	Surplus energy	Surplus energy	Price per unit	Profit	Points
1 Netherlands	£900	No surplus	?	0.0p	£-900	
2 Belgium	£900	No surplus	?	0.0p	£-900	
3 France	£900	No surplus	?	0.0p	£-900	
4 UK	£900	No surplus	?	0.0p	£-900	
5 Germany	£900	No surplus	?	0.0p	£-900	
6 Ireland	£900	No surplus	?	0.0p	£-900	
7 Denmark	£900	No surplus	?	0.0p	£-900	
8 Finland	£900	No surplus	?	0.0p	£-900	
9 Sweden	£900	No surplus	?	0.0p	£-900	
10 Norway	£900	No surplus	?	0.0p	£-900	

To get in touch please email info@ukstem.uk

