



# Mark Scheme (Results)

January 2022

Pearson Edexcel International GCSE

In Physics (4PH1) Paper 2PR

Question number	Answer	Notes	Marks																														
1 (a) (i)	each tick correctly placed in each row;;; <table border="1"><thead><tr><th></th><th colspan="4">Energy store</th></tr><tr><th>Method of generating electricity</th><th>Thermal</th><th>Gravitational potential</th><th>Kinetic</th><th>Chemical</th></tr></thead><tbody><tr><td>Geothermal power station</td><td>✓</td><td></td><td></td><td></td></tr><tr><td>Hydroelectric power station</td><td></td><td>✓</td><td></td><td></td></tr><tr><td>Petrol generator</td><td></td><td></td><td></td><td>✓</td></tr><tr><td>Wind turbine</td><td></td><td></td><td>✓</td><td></td></tr></tbody></table>		Energy store				Method of generating electricity	Thermal	Gravitational potential	Kinetic	Chemical	Geothermal power station	✓				Hydroelectric power station		✓			Petrol generator				✓	Wind turbine			✓		more than one tick in a row negates the mark	4
	Energy store																																
Method of generating electricity	Thermal	Gravitational potential	Kinetic	Chemical																													
Geothermal power station	✓																																
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(ii)	petrol generator;		1																														
(b)	any two from:  MP1. idea of noise pollution; MP2. idea of visual pollution; MP3. idea that turbine only generates electricity when the wind blows; MP4. difficult for output to match demand;  MP5. wind is a dilute source of energy;  MP6. can cause harm to migrating flocks of birds;	ignore statements relating to cost ignore bald 'pollution' ignore bald 'pollution'  ignore 'do not generate much electricity/energy' allow idea that wind farms take up a lot of space	2																														

Total for Question 1 = 7 marks