

Name here

IGCSE Mind Mapping – Help Sheet & Instructions

Please add the following information to your mind maps.

For both renewable and non-renewable

1. Two advantages (see GATW embedded slideshow on geographypods)*
2. Two disadvantages (see GATW embedded slideshow on geographypods)*
3. Global trend in usage (where in the world is it used and how much – see graphics below)

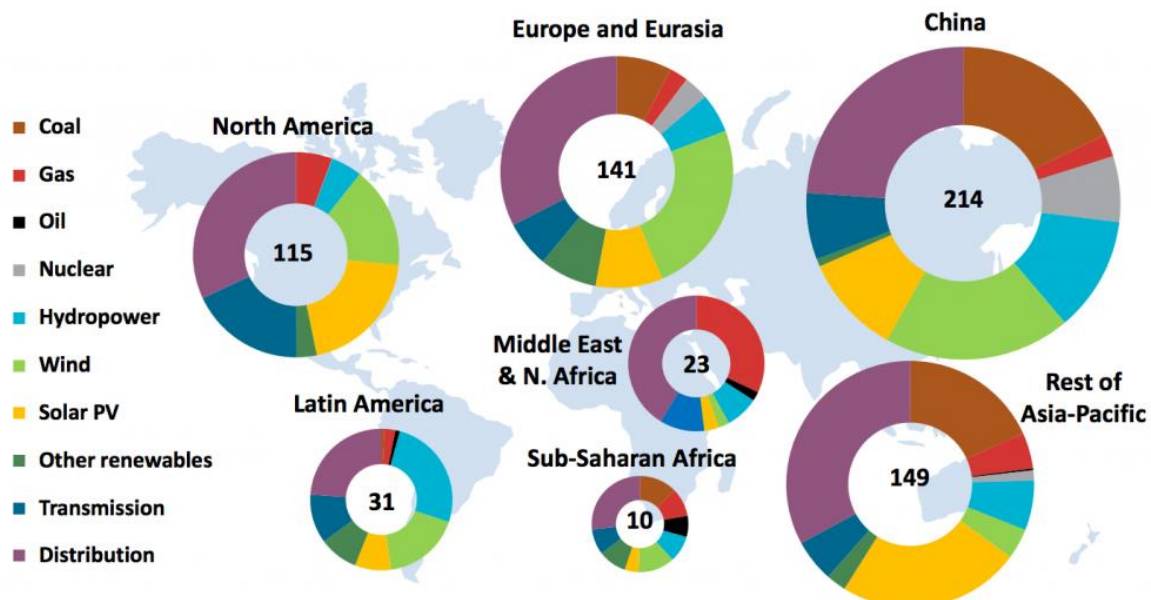
For non-renewable only

4. Two siting factors for each type of power plant (coal, oil, gas, nuclear)
5. An example country that relies on each of the four types of energy above.
6. For fuel wood only – where in the world and links to deforestation & gender disparity
7. A country that is mostly reliant on fuel wood.

For renewable only

8. Two siting factors to be considered before location is decided.
9. For Solar, Wind, biofuel & geothermal, two countries that would be suitable producers, users and exporters of this energy (see graphics below)

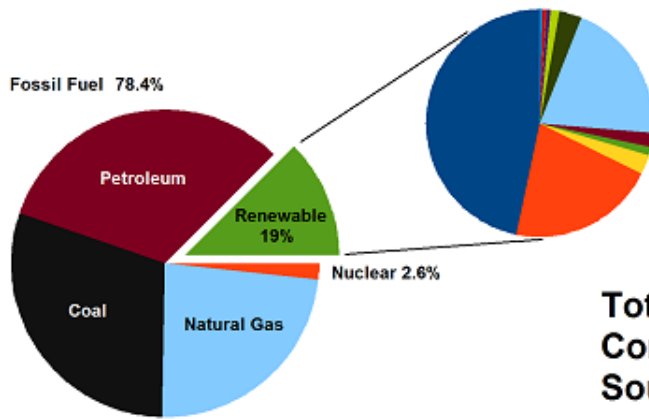
*Ensure that social & environmental impacts are well highlighted in 2 different colours.



This map is without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.

Name here

Total global energy consumption: 539 quadrillion BTU

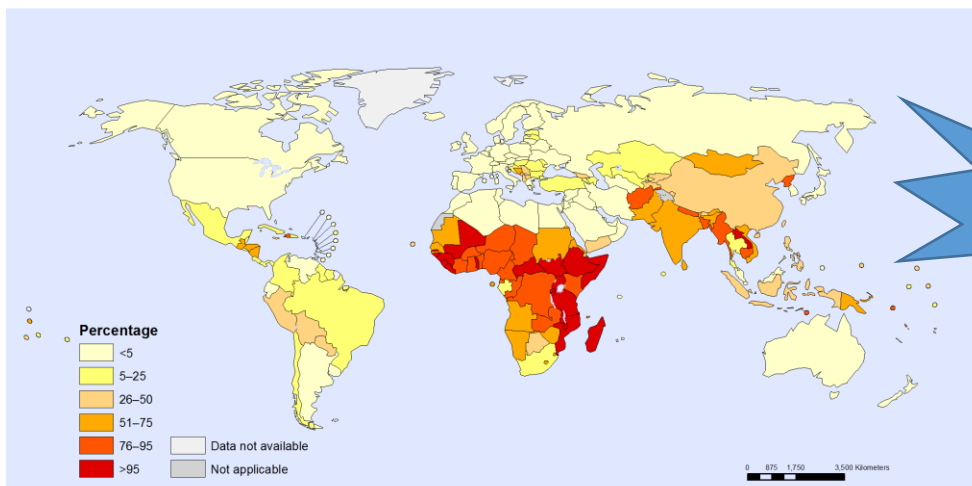


Renewable

Traditional biomass	9%
Bio-heat	2.6%
Ethanol	0.34%
Biodiesel	0.15%
Biopower generation	0.25%
Hydropower	3.8%
Wind	0.39%
Solar heating/cooling	0.16%
Solar PV	0.077%
Solar CSP	0.0039%
Geothermal heat	0.061%
Geothermal electricity	0.049%
Ocean power	0.00078%

Total World Energy Consumption by Source (2013)

Population using solid fuels (%), 2012



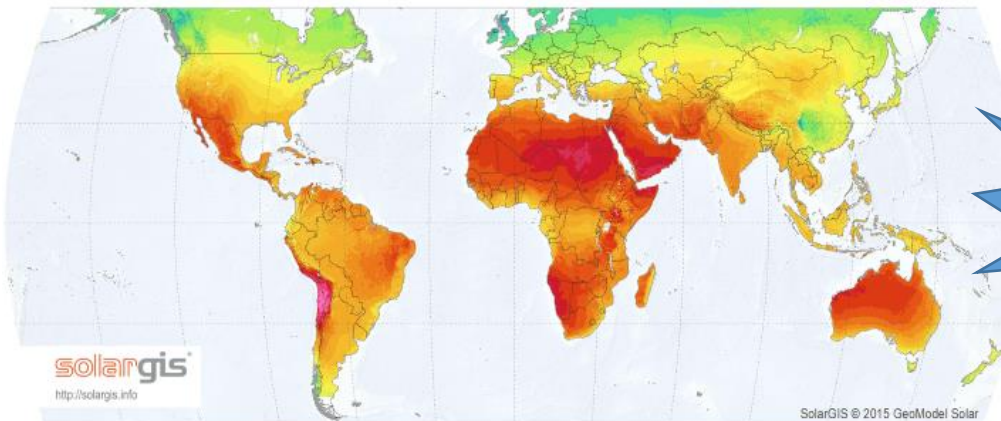
The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization
Map Production: Public Health Information and Geographic Information Systems (GIS)
World Health Organization

World Health Organization
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GLOBAL HORIZONTAL IRRADIATION

GeoModel SOLAR

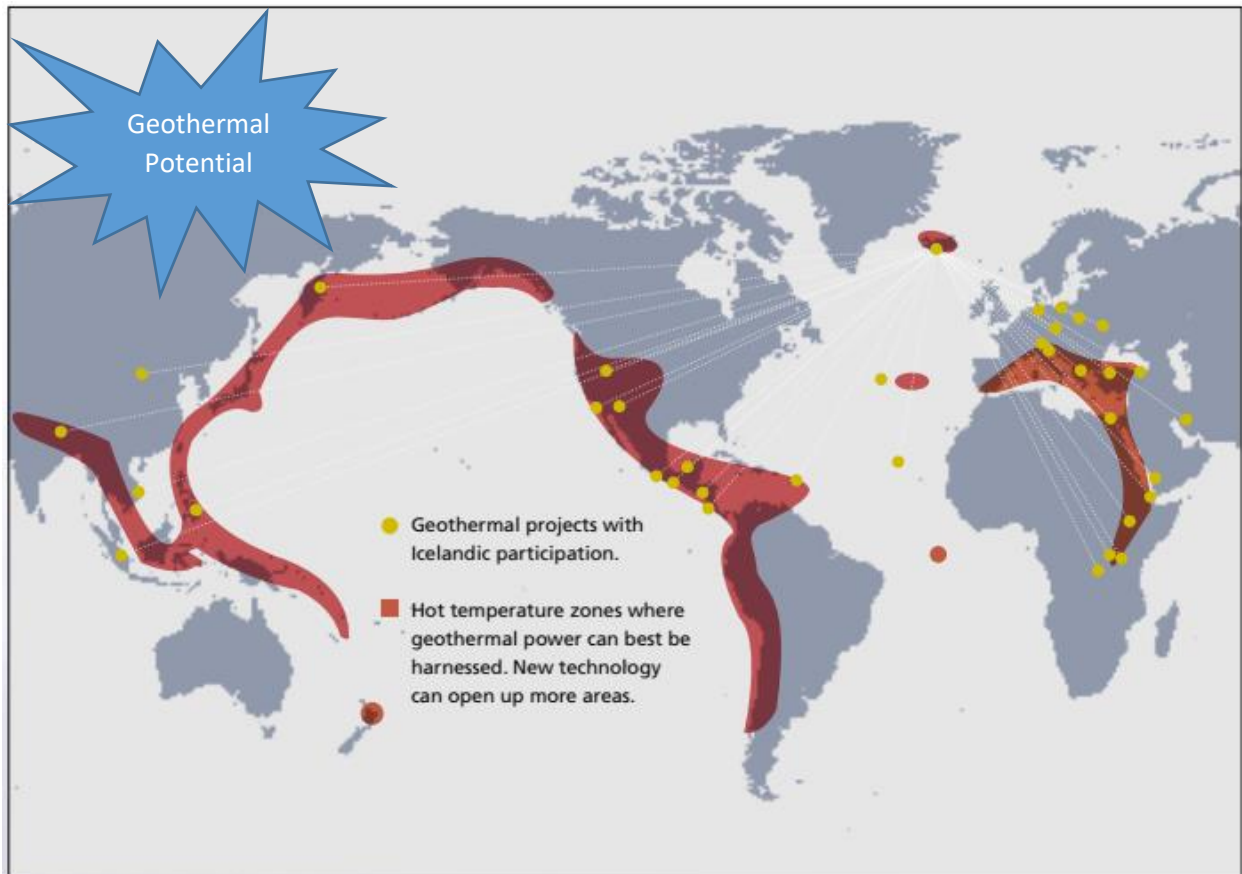
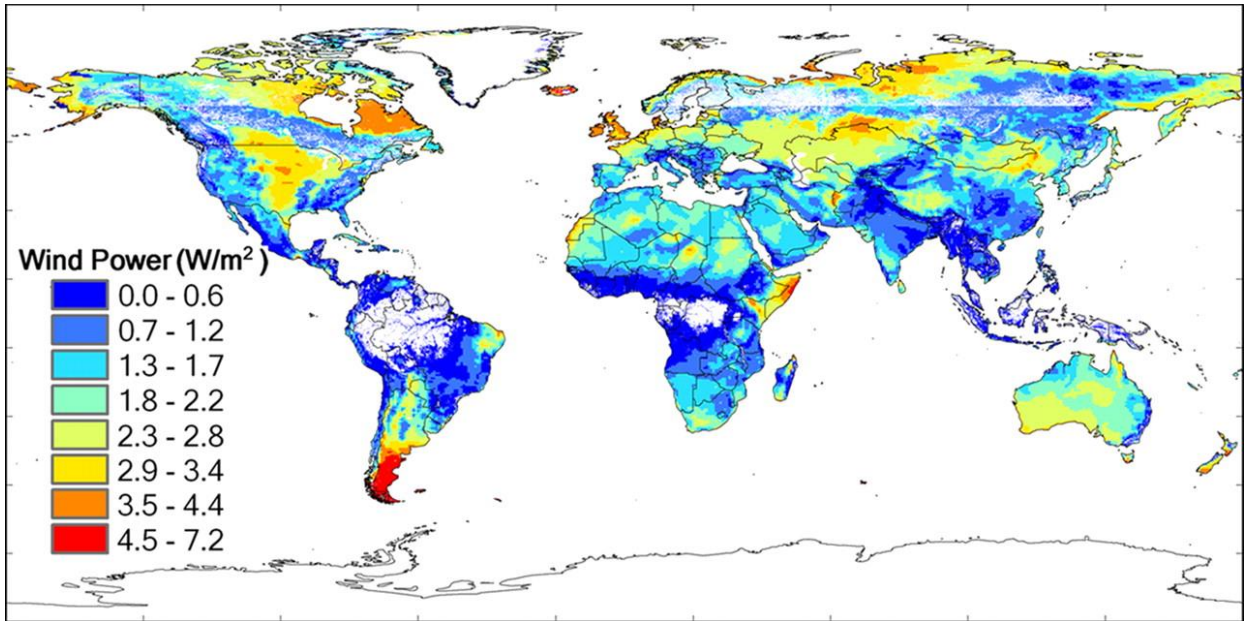


Long-term average of

annual sum	< 800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
daily sum	< 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5 >

kWh/m²

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Biofuel production

