



**Economic – Energy**  
**Geography past Exam Questions**  
**Higher Level**

## 2011

### Section 1 – Q11

#### 11. Energy capacity in Ireland

Examine the table below which shows the generating capacity of renewable energy in Ireland in mega watts (mw) and answer the questions that follow:

Generating capacity of renewable energy (mw)			
Year	Wind	Hydro	Biomass
2003	212	240	12
2004	343	240	17
2005	495	234	18
2006	746	234	25
2007	783	235	27
2008	1,027	237	30
2009	1,264	239	X
Total	4,870	1,659	162

Sustainable Energy Ireland

- (i) What was the generating capacity for wind in 2009?
- \_\_\_\_\_
- (ii) Briefly explain **one** reason why there has been an increase in the use of wind energy in Ireland for generating electricity.
- Reason \_\_\_\_\_
- \_\_\_\_\_
- (iii) Calculate **X**, the generating capacity for biomass in 2009.
- \_\_\_\_\_
- (iv) Name **two** other sources of renewable energy not named in the table above.
1. \_\_\_\_\_
2. \_\_\_\_\_

[8m]

**2009**

**Section 2 – Q7 A**

**A. ENERGY IN IRELAND**

**Ireland's Percentage Share of Energy Requirements by Selected Sector for 1990 & 2006.**

<b>Sector</b>	<b>1990</b>	<b>2006</b>
<b>Industry</b>	27%	23%
<b>Transport</b>	22%	34%
<b>Services</b>	15%	16%
<b>Agriculture</b>	4%	2%

Examine the data in the above table showing Ireland's percentage share of energy requirements by selected sector for 1990 & 2006.

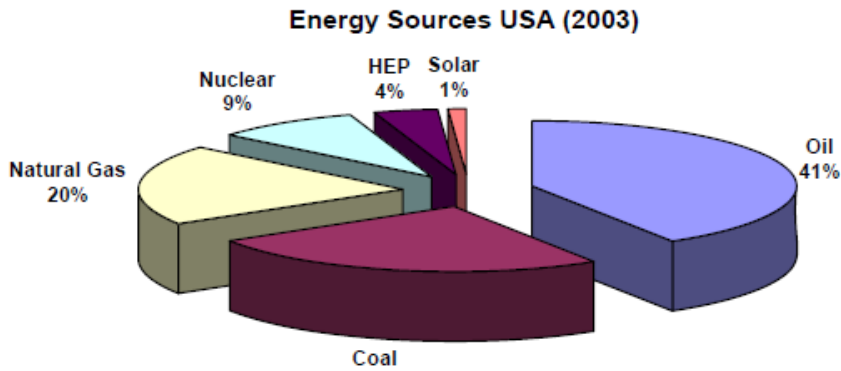
Using **graph paper**, draw a suitable graph to illustrate this data.

**[20m]**

Part 1 – Q3

3 Energy Consumption

Examine the pie chart below and answer the questions that follow.



Identify the most important source of energy	
Identify one type of fossil fuel listed in the chart	
What percentage of energy was produced from coal?	
What percentage of energy was produced from renewable sources?	

[8]

Section 1 – Q2 C

C INTERACTION WITH ROCK CYCLE

Referring to any **one** of the following, examine how humans interact with the rock cycle:

- Mining,
- Quarrying
- Oil/gas exploration
- Geothermal energy production.

[30m]

**2006**

**Section 2 – Q9 C**

**C FOSSIL FUELS**

Examine the economic and environmental impact of our world's continued reliance on fossil fuels. **[30m]**