

Lab Exercises (20% of final mark)

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Started on	Monday, 11 November 2024, 12:25 PM
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Time taken	23 mins 34 secs
Overdue	11 mins 34 secs
Marks	6.00/15.00
Grade	0.26 out of 0.65 (40%)

Question 1

Partially correct

Mark 6.00 out of 15.00

🚩 Flag question

distribution	indicate	appropriate	barriers	measures
tangible	crucial	upheavals	intervention	irreversible
concentrate	reflected	integration	urgent	directives

The European Community, together with its Member States, is working intensively to improve energy efficiency in all end-use sectors whilst at the same time increasing the use of renewable energies. This decade will be ¹ to solve environmental, self-sufficiency and cost problems and adequately provide for increasing needs for lighting, heating, cooling and motive power without major ². This is especially true when seen in the light of the Kyoto Agreement to reduce CO₂ emissions, where improved energy efficiency will play a key role in meeting the EU Kyoto target in an economic way.

Projections ³ that an increase of energy efficiency of 1 percentage per year two- thirds of the available savings potential could be achieved by 2010 - resulting in avoided CO₂ emissions of almost 200 Mt/year or around 40% of the EU Kyoto commitment.

Community action is deemed necessary on several levels: the ⁴ of the energy efficiency dimension into related Community policy and programmes, legislation such as regulations and ⁵ and voluntary measures with industry are set forth where necessary. Promotional measures are initiated in order to support market forces and enhance transparency. All these measures are to promote energy efficiency and renewable energy sources in order to develop a system of energy production, ⁶ and consumption that aims at being safe, secure, cost-effective and sustainable. The European Commission's efforts ⁷ at the same time on removing ⁸ to a well-functioning market. This is done with the help of Community technology research and demonstration programmes, such as the 6th RTD Framework Programme (2002-2006) and with pro-active support programmes as Intelligent Energy - Europe (2003-2006).

Due mainly to the continued and increasing use of oil, our degree of important dependency in energy is now an ⁹ problem. Import dependency has increased from 40% in the eighties to currently 50% and is projected to rise up to 70% in the next 20 years if ¹⁰ measures are not taken. Intervention on the supply side being limited, it is rapid and significant ¹¹ on the energy demand side which could bring substantial results.

Energy consumption accounts for nearly 95% of the man-made CO₂ emissions and causes ¹² damage to our climate and environment as a whole. The Kyoto commitment of the European Community and its Member States are clear signals which need to be realised with ¹³ results.

The urgent need to react to these issues is ¹⁴ in the Green Paper on the security of energy supply. Two important communications setting out the strategy for energy efficiency were adopted in 2000: the **Action Plan for Energy Efficiency** and the European Climate Change Programme (ECCP). The Action Plan serves as umbrella document outlining programmes of Community legislative and non-legislative actions on energy efficiency. Many measures have been launched and put in place such as Directives and other policy ¹⁵ The ECCP was established to identify, analyse, evaluate and to recommend least-cost measures in all supply and end-use sectors for the EU to meet its Kyoto target.

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