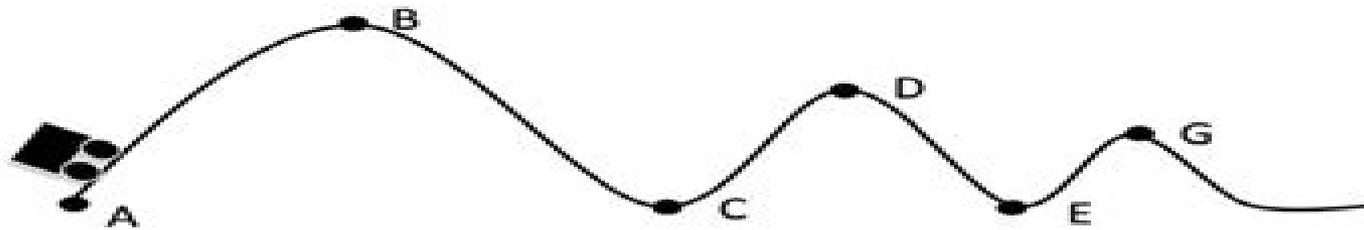


Kinetic and Potential Energy Questions

KEY



A 710. kg car travels along a roller coaster track. The car starts from rest at point A.

- 1) At what point is the energy of the car equivalent to 0J?

Point A

- 2) At what point(s) is potential energy the highest?

Point B

- 3) Assuming this is a frictionless system, at what point(s) is kinetic energy the highest?

Point C and Point E

- 4) How does the potential energy at point B compare to the potential energy at point D?

The potential energy at point B is greater than point D.

- 5) How does the kinetic energy at point B compare to the kinetic energy at point G?

The kinetic energy at point B is less than point G.

For questions 6 – 9 assume a frictionless environment. ****All calculations use $g=9.81 \text{ m/s}^2$ ****

- 6) Point B has a height of 45.0 m. What is the potential energy of the car? Round your answer to the correct number of significant figures.

313,000 J

- 7) Point B has a height of 45.0 m. What is the speed of the car at point C? Round your answer to the correct number of significant figures.

29.7 m/s

- 8) Point D has a height of 30.0 m. What is the speed of the car at point D?

17.1 m/s

- 9) Point G has a height of 20.0 m. How much kinetic energy does the car have at point G?

22.1 m/s

- 10) Why is B the highest point?

The first hill of a roller coaster is the highest because that is when total potential energy is the greatest.

Energy Question

Michal Rosen-Zvi



Energy Question:

The Energy Question Volume Two Edward W. Erickson, Leonard Waverman, 1974-12-15 The so called energy crisis that burst upon the world in 1973 was not easily understood by many people It was neither the beginning of the end nor the first encounter by modern man with the natural result of his prodigality These papers collected in two volumes from energy economists in the United States Canada and Britain all indicate that the crisis was and is a short run problem caused by government action or inaction The problem may be complex but it was mishandled particularly by the United States in terms of government policy The rise in the price of and the embargo on oil came into being because of a successful producers cartel outside North America oil buyers nations and companies did not respond in kind but scurried around the world in separate planes in order to ensure supplies for themselves at any price That price became many times the cost of production price despite the fact that cool analysis reveals an increase in both production and reserves in most areas of the world The shortage of refined oil products for consumers are attributable partly to the embargo but also to a shortage of refineries and bottlenecks in transportation some of which have been induced by government uncertainties over recent years Proper government policies are now required The thirty six papers in the two books treat a multitude of topics related to the question of energy as seen from the stance of the economist All sources of energy are considered as are the markets in major areas of the world past policies are analysed and future policies recommended It is hoped that the volumes giving the background to the energy problems of the immediate future and a menu of prescriptions for their solution will interest businessmen market analysts and policy makers as well as economists teaching or learning in many parts of the world

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Planning Assistance Act and the Energy Facilities Planning and Development Act United States. Congress. Senate. Committee on Interior and Insular Affairs. Environment and Land Resources Subcommittee, 1976 Physics Handbook

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Renewable Energy Utilization (EREU) Model for Electricity Generation in Thailand Thomas Andexer, 2008-10-29 Master s Thesis from the year 2008 in the subject Environmental Sciences grade Passed Assumption University of Thailand College of Internet Distance Education CIDE School of Business Administration course Master Thesis Project language English abstract This thesis presents a research project entitled A Hypothetical Enhanced Renewable Energy Utilization EREU Model for Electricity Generation in Thailand This research is motivated by Thailand s rapidly increasing electricity consumption caused by the country s long standing above average economic growth Consequently the rising electricity demand can only be satisfied by continuously growing electricity imports and thus creating a significant burden to Thailand s national budget Further more Thailand is heavily dependent on natural gas reserves for electricity generation however these are expected to be depleted within only three decades and global price levels for conventional fuels are increasingly volatile with an ascending tendency as well Therefore Thailand faces an urgent need to strategically plan for the broad utilization of domestic renewable energy resources which is essential for a more diversified and thus sustainable electricity generation as well as for the nation s endeavor to become an energy hub within the South East Asian region Under these circumstances

this research conducts a comprehensive literature review regarding the past development as well as the current situation of renewable energy utilization in Thailand which concludes in the identification of the importance of renewable energy in the given context and closes with both a distinctive need assessment and a conceptual framework for Thailand's future renewable energy strategy. Subsequently, the research introduces a unique primary research endeavor in the form of an explorative expert interview survey which succeeds in a substantial collection of qualitative and in-depth data. These valuable data is first objectively analyzed and second subjectively interpreted and summarized to become the major source for the derivation of a multitude of potential strategic recommendations for an enhanced future renewable energy utilization development in Thailand. Finally, the entirety of these recommended strategic approaches based on both the secondary and primary research are assembled to develop the Enhanced Renewable Energy Utilization (EREU) model for electricity generation in Thailand as the fundamental finding of this thesis and research project respectively.

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