

Unit 14 - Week 12 - Energy policy (continued), Future Energy Systems

Course outline

How does an NPTEL online course work?

Practice Assignment

Week 1 - Introduction

Week 2 - Energy and quality of life, Country energy balance

Week 3 - Energy Economics

Week 4 - Energy Resources

Week 5 - Non-Renewable Resource Economics

Week 6 - Preferences, Utility and Social choices

Week 7 - Public and private goods, Externalities

Week 8 - Energy and Financing

Week 9 - Input-Output Analysis

Week 10 - Primary Energy Analysis, Net Energy Analysis

Week 11 - Net Energy Analysis (Continued), Energy Policy

Week 12 - Energy policy (continued), Future Energy Systems

● Lecture 24B: Energy Policy Examples-Part 2

○ Revision Paper-2

● Lecture 25A: Revision Paper-2 (Part 1)

○ Lecture 25B: Revision Paper-2 (Part 2)

● Lecture 26: Future Energy Systems

○ Quiz : Assignment 12

○ Assignment 12 Solutions

● Additional Learning

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Assignment 12

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-04-22, 23:59 IST.

1) If we observe the fuel use by quintile in any nation, the percentage of electricity mix in the fuel usage is least in the highest quintile (high income groups). True or False? **1 point**

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

2) According to the differential targets set under PAT scheme, the inefficient plants had a/the _____ target compared to a similar plant which was more efficient **1 point**

- Higher
 Lower
 Same

No, the answer is incorrect.
Score: 0

Accepted Answers:
Higher

3) The annualized life cycle cost of an energy efficient motor is more than that of a standard motor of the same capacity. True or false? **1 point**

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

4) As the load factor increases for a power plant , the cost of electricity generation _____. **1 point**

- Increases
 Decreases
 Remains the same

No, the answer is incorrect.
Score: 0

Accepted Answers:
Decreases

5) Which of the following are methods to increase the load factor for a rural micro-grid so that the cost of electricity decreases. **1 point**

- Industrial load
 Telecom tower
 Cold storage facility
 All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

6) Which of the following measures have been considered in the Sustainable Development Scenario in World Energy Outlook (WEO) 2019? **1 point**

- Energy efficiency
 Shifting to renewable energy resources
 Fuel switch and carbon capture
 All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

7) What are the major drivers of current energy transition? **1 point**

- Climate change
 Declining price of renewables
 Increase in shale oil price
 Success of public procurement models for appliances

No, the answer is incorrect.
Score: 0

Accepted Answers:
Climate change
Declining price of renewables
Success of public procurement models for appliances

8) CO2 emission/ km travelled, on average for Electric vehicles currently in India is higher than that of IC engine vehicles. **1 point**

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

9) According to the Stated Policies Scenario from WEO2019, which of the following statements are true? **1 point**

- Demand of coal in India will decrease till year 2040
 Demand of oil in USA will increase till year 2040
 CO2 intensity of electricity generation for European Union will decrease till year 2040
 CO2 intensity of electricity generation for China will increase till year 2040

No, the answer is incorrect.
Score: 0

Accepted Answers:
CO2 intensity of electricity generation for European Union will decrease till year 2040

10) What is the likely disadvantage of high penetration of solar PV in Indian power sector? **1 point**

- Ramping rate requirements of thermal generators will become high
 Storage systems will have to be extensively employed
 Both a & b
 None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both a & b