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21ucc125@Inmiit.ac.in ~

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Energy Resources, Economics and Environment (course)



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Course outline

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About NPTEL

How does an NPTEL online course work?

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Week 1 -Introduction ()

Week 2 -Energy and quality of life,

Week 11: Assignment 11

The due date for submitting this assignment has passed.

Due on 2025-04-09, 23:59 IST.

Assignment submitted on 2025-04-09, 23:19 IST

- 1) A star rating system which depicts the energy efficiency of an electrical appliance **1 point** comes under which type of policy
 - Standards and Labelling
 - Preferential Tariffs
 - Building Codes
 - Carbon Tax

Yes, the answer is correct.

Score: 1

Accepted Answers:

Standards and Labelling

- 2) Which type of policy instrument do the 'Bharat Stage Emission Standards' represent in *1 point* India's vehicle emission control framework?
 - Regulatory instrument
 - Market-based instrument
 - Voluntary agreement
 - Awareness campaign

Country	Yes, the answer is correct.	
energy	Score: 1	
balance ()	Accepted Answers: Regulatory instrument	
Week 3 -	3) Which of the following initiatives is primarily focused on sustainable building design	1 point
Energy	rather than energy access?	
Economics ()	◯ Saubhagya Scheme	
Week 4 -	Deendayal Upadhyaya Gram Jyoti Yojana	
Energy	UJJWALA Yojana	
Resources ()	© GRIHA	
Week 5 - Non- Renewable	Yes, the answer is correct. Score: 1	
Resource Economics ()	Accepted Answers: GRIHA	
Week 6 -	4) Which of the following is a key component of sustainability analysis?	1 point
Preferences,	○ Energy efficiency assessment	
Utility and Social	Cost-benefit evaluation	
choices ()	Environmental impact measurement	
18/o - I. 7	All of the above	
Week 7 - Public and	Yes, the answer is correct.	
private	Score: 1	
goods,	Accepted Answers: All of the above	
Externalities	All of the above	
0	5) When a production subsidy or consumption subsidy is provided on the fuel price, the	1 point
Week 8 -	environmental damage	•
Energy and	Ingrance	
Financing ()	IncreasesDecreases	
Mark 0	Remains same	
Week 9 - Input-Output	Not related	
Analysis ()		
	Yes, the answer is correct. Score: 1	
Week 10 -	Accepted Answers:	
Primary	Increases	
Energy Analysis, Net		
Energy	6) India's Nationally Determined Contributions (NDCs) under the Paris Agreement aim to	-
Analysis ()	reduce the carbon intensity of GDP by 45% from 2005 levels by 2030. Which of the following	9
	strategies can contribute to achieving this target?	
Week 11 - Net	Reducing the carbon intensity of the energy sector	
Energy	Reducing the energy intensity of GDP	
Analysis (Continued)	Changing the structure of the economy	

Energy Policy

- Lecture 22A: Net Energy Analysis-Part 3 (unit? unit=115&lesso n=116)
- Lecture 22B: **Net Energy** Analysis-Part 4 (unit? unit=115&lesso n=117)
- Lecture 23A: Energy Policy-Part 1 (unit? unit=115&lesso n=118)
- Lecture 23B: Energy Policy-Part 2 (unit? unit=115&lesso n=119)
- Lecture 24A: **Energy Policy Examples-Part** 1 (unit? unit=115&lesso n=120)
- Additional Learning (unit? unit=115&lesso n=121)
- Weekly Feedback (unit? unit=115&lesso n=123)
- Quiz: Week 11 : Assignment 11 (assessment? name=216)

Week 12 -**Energy policy**

gy Resources, Economics and Environment Unit 14 - Week 11 - Net Energy Analysis (Continued), Energy F	Policy
All of the above	
Yes, the answer is correct. Score: 1	
Accepted Answers: All of the above	
7) The ability of a policy to withstand external factors, such as changes in environmental or political conditions, is best described by which criterion?	1 point
Economic efficiency	
○ Equity	
Policy robustness	
O Political acceptability	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
Policy robustness	
8) Which among the following are the stakeholders of India's Intended Nationally Determined Contributions (INDCs) to the UNFCCC?	1 point
Ogovernment of India	
Financing institutions	
Energy Industry	

- Energy Industry
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

- 9) A zinc production facility has an average annual production of 158 tonnes, with a 1 point cumulative energy demand (CED) of 6.5 MJ/kg. What is the total input energy consumed (in TJ) over its entire lifetime of 25 years? (1 tonne = 1000 kg, 1 TJ = 10¹² J = 10⁶ MJ)
 - 25.7
 - 257.5
 - 0 18.5
 - 270.6

Yes, the answer is correct.

Score: 1

Accepted Answers:

25.7

10) For the question above (Q9), find the carbon emission footprint, CEF (in kg CO₂/ kg 1 point zinc) if the total CO₂ emissions of the plant over its lifetime is 2250 tonnes

0.5

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0.57		
0.45		
0.8		
Yes, the answer is correct. Score: 1		
Accepted Answers:		
0.57		