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



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Course
outline

About NPTEL
()

How does an
NPTEL online
course work?
()

Week 1 -
Introduction
()

Week 2 -
Energy and
quality of life,

Week 12 : Assignment 12

The due date for submitting this assignment has passed.

Due on 2025-04-16, 23:59 IST.

Assignment submitted on 2025-04-16, 22:31 IST

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

1 point

- ☒ True
☐ False

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

2) Renewable Energy Certificate (REC) is awarded based on _____ of electricity using renewable energy.

1 point

- ☐ installed capacity
☒ generation
☐ tariff rates
☐ none of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
generation



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),

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

- ☐ Higher
☒ Lower
☐ Same

Yes, the answer is correct.

Score: 1

Accepted Answers:

Lower

4) To achieve goals mentioned in sustainable development scenario in the World Energy **1 point**
Outlook 2019, carbon intensity of electricity generation _____.

- ☒ will not affect the goals
☐ needs to be reduced
☐ needs to be increased
☐ needs to be constant

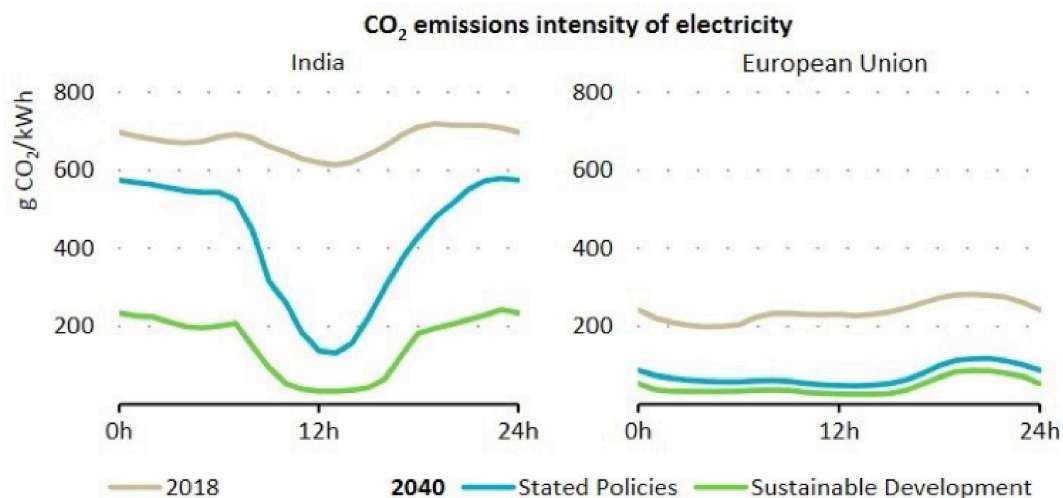
No, the answer is incorrect.

Score: 0

Accepted Answers:

needs to be reduced

5) Figure below shows projections of average hourly CO₂ emissions intensity for India and **1 point**
the European Union as per World Energy Outlook 2019 report. The change in the CO₂ intensity of
the grid in 2040 is higher in India than European Union because of _____



- ☒ large amount of renewables in grid during sunshine hours.
☐ Stringent capacity addition targets
☐ change in energy demand
☐ None of the above

Energy Policy ()

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

● Lecture 24B:
Energy Policy
Examples-Part
2 (unit?
unit=125&lesso
n=126)

● Revision
Paper-2 (unit?
unit=125&lesso
n=127)

● Lecture 25A:
Revision
Paper-2 (Part
1) (unit?
unit=125&lesso
n=128)

● Lecture 25B:
Revision
Paper-2 (Part
2) (unit?
unit=125&lesso
n=129)

● Lecture 26:
Future Energy
Systems (unit?
unit=125&lesso
n=130)

● Additional
Learning (unit?
unit=125&lesso
n=132)

● Weekly
Feedback
(unit?
unit=125&lesso
n=133)

● Quiz: Week 12
: Assignment

Yes, the answer is correct.

Score: 1

Accepted Answers:

large amount of renewables in grid during sunshine hours.

6) Net CO₂ emission/ km travelled, on average for Electric vehicles currently in India is zero. True or false? **1 point**

☐ True

☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

7) One of the major issues why Renewable Energy Certificate (REC) mechanism is not working is _____? **1 point**

☐ lack of awareness among stakeholders

☐ non-transparent settlement of trades

☒ mismatch in supply and demand

☐ non-obligatory participation

Yes, the answer is correct.

Score: 1

Accepted Answers:

mismatch in supply and demand

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

☐ Energy efficiency

☐ Shifting to renewable energy resources

☐ Fuel switch and carbon capture

☐ Only 'b' and 'c'

☒ Option 'a', 'b' and 'c'

Yes, the answer is correct.

Score: 1

Accepted Answers:

Option 'a', 'b' and 'c'

9) In the Perform, Achieve and Trade (PAT) scheme, the plant with lowest _____ in the past three years is considered as base line for the target setting. **1 point**

☐ average production

☐ total energy consumption

☒ specific energy consumption

☐ operating cost



12
(assessment?
name=217)

Text
Transcripts ()

Books ()

Download
Videos ()

Yes, the answer is correct.

Score: 1

Accepted Answers:

specific energy consumption

10) The challenge/s with the nuclear power plants is/are _____. (Select all that apply) **1 point**

- ☐ Local CO₂ emissions
- ☒ Radiation issues.
- ☐ Heavy dependence on weather conditions
- ☒ Risk of high impact accidents.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Radiation issues.

Risk of high impact accidents.

