Environment & Ecology · GS - III

Discuss the role of offshore wind energy in the clean energy transition. Examine the challenges posed by policy uncertainty and opposition to renewable energy projects.

EXAM YEAR	PAPER	SUBJECT
DAILY PRACTICE 22/10/2026	GS - III	Environment & Ecology

MARKS	WORD LIMIT
10	~150 words

Answer Hint

Offshore Wind Energy, Renewable Energy, Clean Energy Transition, Energy Security, Climate Change, Policy Uncertainty, Investment, Green Jobs, Fossil Fuels, Sustainable Development.

Model Answer

Introduction

Offshore wind energy involves generating electricity through wind turbines installed in seas and oceans. It offers significant potential to expand renewable energy production and reduce dependence on fossil fuels.

Main Body

Importance: Offshore wind farms can benefit from stronger and more consistent winds, generate large amounts of clean electricity, create employment and support energy security.

Challenges: High installation and maintenance costs, marine environmental concerns, complex regulatory procedures and opposition to renewable energy projects can slow their development. Policy uncertainty may discourage investors, delay projects and affect employment opportunities.

The debate over offshore wind energy in the United States highlights the importance of stable energy policies and predictable project approvals. Governments must balance economic interests, environmental protection and energy security.

Way Forward: Governments should provide clear regulations, transparent permitting processes, investor confidence, environmental impact assessments and support for research and technological innovation.

Conclusion

Offshore wind energy can contribute significantly to sustainable development and climate goals. Consistent policies, responsible project planning and investment in renewable technologies are essential for accelerating the clean energy transition.

BECOME IAS
AI POWERED UPSC PREP