



PROJECT NOTIFICATION

Reference No.: 462

Date of Issue	27 August 2024
Project Code	24-CP-46-GE-DLN-A
Title	APO e-Course on Plant-based Biofuels
Timing	29 November 2024
Hosting Country(ies)	APO Secretariat
Venue City(ies)	Not Applicable
Modality	Digital Learning
Implementing Organization(s)	APO Secretariat
Participating Country(ies)	Open
Overseas Participants	Not Applicable
Local Participants	Not Applicable
Closing Date	Not Applicable
Remarks	Timing is the launch date of the e-course.

Objectives	Understand the basic concepts and principles of plant-based biofuels, including biofuel types, production processes, applications, and relevant emerging technologies; explore the role of biofuels in achieving sustainability goals; and analyze the role of public policies in the promotion and successful use of plant-based biofuels in industries.
Rationale	With increased concern over the impact of fossil fuels on the environment, it is necessary to promote the use of renewable energy sources such as plant-based biofuels. This course will provide a comprehensive understanding of the basic concepts and principles underlying biofuels including production, advantages, downsides, and sustainability challenges.
Background	<p>Renewable energy mitigates the environmental impact of and our reliance on fossil fuels. Plant-based biofuels have shown promise as a renewable alternative to many crude oil products as plants are the most abundant renewable sources of reduced carbons. However, the adoption of plant-based biofuels remains limited despite decades of continued development. In the Asia-Pacific, Indonesia and Malaysia are the top two biofuel producers, while other countries lag far behind.</p> <p>While the importance of biofuels is recognized, several key challenges must be addressed before they can completely replace fossil-based fuels such as costs, environmental impact, and food–fuel conflict. Solutions are being sought to mitigate the challenges through new research and continuous review of policies and strategies. This e-course is one APO initiative to promote sustainability under the Green Productivity Program.</p>
Topics	Introduction to plant-based biofuels: Definition, history, and current status and types of plant-based biofuels; Plant-based biofuel production processes including business models; Economic outlook for and sustainability of plant-based biofuels; Public policies on expanding the use of plant-based biofuels; and Success stories and best practices of plant-based biofuels in industries.
Outcome	Participants understand the concepts of plant-based biofuels and their economic, environmental, and social impacts; and awareness of environmental issues related to fossil fuels and the need to promote sustainability and reduce greenhouse gas emissions with plant-based biofuels is increased.
Qualifications	Open to all participants in APO members and nonmembers.

Please refer to the implementation procedures circulated with this document for further details.



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