



# India: Promoting Advanced Biofuels Through High Technology

Project Name	Promoting Advanced Biofuels Through High Technology
Project Number	54222-001
Country	India
Project Status	Proposed
Project Type / Modality of Assistance	Technical Assistance
Source of Funding / Amount	
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth Regional integration
Drivers of Change	Governance and capacity development Knowledge solutions Partnerships Private sector development
Sector / Subsector	Agriculture, natural resources and rural development - Agro-industry, marketing, and trade Energy - Renewable energy generation - biomass and waste Finance - Infrastructure finance and investment funds Transport - Multimodal logistics Water and other urban infrastructure and services - Urban hazardous waste management
Gender Equity and Mainstreaming	Effective gender mainstreaming
Description	This knowledge and support technical assistance (TA) aims to support India's development of biofuels through novel technological adoption and sustainable business structure. Biofuels are a renewable energy source made from organic matters or agricultural and municipal solid wastes. Its usage can be extended to energy, transport, manufacturing, and medicament in the form of bioethanol, biogas, and biodiesel. Especially, biofuels can be blended as low carbon fuels for vehicles, and treated as key tool for future green transportation. Moreover, the recent coronavirus disease (COVID-19) pandemic has highlighted a serious shortage of ethanol for used as disinfectant. The TA will focus on advanced biofuels in preparing specific development schemes with technical, financial, contractual, and capacity development arrangements and viable business and operational models.
Project Rationale and Linkage to Country/Regional Strategy	The TA will take a cross-sectoral solution approach to tackle various thematic issues such as energy security, transport mobility, agribusiness, financial stability, air and water pollution, waste disposal, public health, climate change, and urban-rural divide. Advanced biofuel market will provide opportunities to mitigate global warming, harness agricultural and municipal wastes, create new industries and jobs, and strengthen energy independence. This new development is expected to contribute to making transformational effects on domestic economy and society as well as regional cooperation through knowledge transfer to neighboring countries.
Impact	Usage of domestic biofuels in the energy and transportation sectors increased by 2030
Outcome	Readiness for investments in biofuel development and business enhanced. Readiness for investments in biofuel development and business enhanced. Readiness for investments in biofuel development and business enhanced.
Outputs	Development schemes of demonstration bioethanol plants prepared. Development schemes of demonstration bio-CNG plants prepared. Development schemes of demonstration biodiesel plants prepared. Gender mainstreaming design for the biofuel value chain incorporated.
Geographical Location	Nation-wide, Gujarat, Haryana, Uttar Pradesh
<b>Summary of Environmental and Social Aspects</b>	
Environmental Aspects	
Involuntary Resettlement	
Indigenous Peoples	
Stakeholder Communication, Participation, and Consultation	
During Project Design	
During Project Implementation	
<b>Business Opportunities</b>	
Consulting Services	A firm will be selected through quality- and cost-based selection (QCBS) method with a 90:10 quality-cost ratio using the full technical proposal evaluation. Individual consultants and resource persons will also be recruited as expert presenters at workshops. ADB will engage the consultants following ADB Procurement Policy (2017, as amended from time to time), Procurement Regulations for ADB Borrowers (2017, as amended from time to time), and its associated project administration instructions and/or staff instructions.
Procurement	ADB will engage the consultants and carry out procurement following ADB Procurement Policy (2017, as amended from time to time), Procurement Regulations for ADB Borrowers (2017, as amended from time to time), and its associated project administration instructions and/or staff instructions.
Responsible ADB Officer	Son, Jongmi

Responsible ADB Department	South Asia Department
Responsible ADB Division	Energy Division, SARD
Executing Agencies	Indian Oil Corporation,Limited Scope Complex, Core-2 7 Institutional Area, Lodhi Road, New Delhi-110003, India Ministry of Petroleum and Natural Gas Shastri Bhavan-1, New Delhi India

Timetable	
Concept Clearance	15 Jul 2020
Fact Finding	15 Jul 2020 to 31 Jul 2020
MRM	-
Approval	-
Last Review Mission	-
Last PDS Update	17 Jul 2020

Project Page	<a href="https://www.adb.org/projects/54222-001/main">https://www.adb.org/projects/54222-001/main</a>
Request for Information	<a href="http://www.adb.org/forms/request-information-form?subject=54222-001">http://www.adb.org/forms/request-information-form?subject=54222-001</a>
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