



# Philippines: Market Transformation through Introduction of Energy-Efficient Electric Vehicles Project

Project Name	Market Transformation through Introduction of Energy-Efficient Electric Vehicles Project												
Project Number	43207-013												
Country / Economy	Philippines												
Project Status	Closed												
Project Type / Modality of Assistance	Grant Loan												
Source of Funding / Amount	<table><tr><td colspan="2">Grant 0326-PHI: Market Transformation Through Introduction of Energy-Efficient Electric Vehicles</td></tr><tr><td>Clean Technology Fund</td><td>US\$ 5.00 million</td></tr><tr><td colspan="2">Loan 2964-PHI: Market Transformation through Introduction of Energy-Efficient Electric Vehicles Project</td></tr><tr><td>Ordinary capital resources</td><td>US\$ 300.00 million</td></tr><tr><td colspan="2">Loan 8261-PHI: Market Transformation Through Introduction of Energy-Efficient Electric Vehicles</td></tr><tr><td>Clean Technology Fund</td><td>US\$ 100.00 million</td></tr></table>	Grant 0326-PHI: Market Transformation Through Introduction of Energy-Efficient Electric Vehicles		Clean Technology Fund	US\$ 5.00 million	Loan 2964-PHI: Market Transformation through Introduction of Energy-Efficient Electric Vehicles Project		Ordinary capital resources	US\$ 300.00 million	Loan 8261-PHI: Market Transformation Through Introduction of Energy-Efficient Electric Vehicles		Clean Technology Fund	US\$ 100.00 million
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Clean Technology Fund	US\$ 5.00 million												
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Ordinary capital resources	US\$ 300.00 million												
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Clean Technology Fund	US\$ 100.00 million												
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth												
Drivers of Change	Gender Equity and Mainstreaming Governance and capacity development Partnerships												
Sector / Subsector	Energy / Energy efficiency and conservation Transport / Transport policies and institutional development												
Gender	Some gender elements												
Description	.												
Project Rationale and Linkage to Country/Regional Strategy	.												
Impact	.												
<b>Project Outcome</b>													
Description of Outcome	.												
Progress Toward Outcome	Some of the e-trikes deployed to the local government units are already operating as passenger vehicles, and the balance are to be rolled out in tranches.												
<b>Implementation Progress</b>													
Description of Project Outputs	.												
Status of Implementation Progress (Outputs, Activities, and Issues)	1. All of the e-trikes have been accepted by local government units (LGUs) or national government agencies (NGAs) following the approved amended implementation arrangements in the loan agreement and Project Administration Manual (PAM). 2. The project team still has to validate available information to be able to assess lithium-ion battery supply chain creation.3. The bidding for solar charging stations of 50 kW was not pursued by the Department of Energy. Installation of charging stations commensurate with the number of e-trikes acquired will be undertaken by each of the LGU/NGA recipients in accordance with the approved deployment plans.4. An overall framework/plan on proper handling of the old tricycles and used batteries is to be implemented by the LGU recipients in accordance with the approved amendments to the loan agreement and PAM and deployment plans.5. The supplier trained e-trike recipients and fleet managers.												
Geographical Location	.												
<b>Safeguard Categories</b>													
Environment	C												
Involuntary Resettlement	C												
Indigenous Peoples	C												
<b>Summary of Environmental and Social Aspects</b>													
Environmental Aspects	The project is categorized as C for environment. The e-trikes will have no tailpipe emissions and no engine noise. Because the project is classified as category C, no separate environmental assessment will be required, although environmental implications need to be reviewed. According to ADB's publication on electric bikes, lead pollution is an inherent problem with e-vehicles, and electric bikes with lead-acid batteries will increase overall pollution rates more than ICE motorcycles. Lithium-ion batteries, however, are not an environmental hazard, but are classified by the Government of the United States as nonhazardous waste, and are safe for disposal in the normal municipal waste stream.												
Involuntary Resettlement	The project is categorized as C for involuntary resettlement.												
Indigenous Peoples	The project is categorized as C for indigenous peoples.												

Stakeholder Communication, Participation, and Consultation	
During Project Design	A series of industry meetings among industry players coupled with formal meetings and workshops among various stakeholders including international electric vehicle experts, battery manufacturers, local government units and government agencies have been initiated to ensure local buy-in throughout the project preparatory process. These meetings have helped in building community awareness and addressing industry, community and driver concerns.
During Project Implementation	Consultative workshops and other consensus building activities were conducted throughout the project implementation.
Responsible ADB Officer	Inoue, Yuki
Responsible ADB Department	Southeast Asia Department
Responsible ADB Division	Energy Division, SERD
Executing Agencies	Department of Energy PNPC Complex Merritt Road, Fort Bonifacio Makati, Metro Manila
Timetable	
Concept Clearance	16 Dec 2010
Fact Finding	31 Aug 2011 to 08 Sep 2011
MRM	25 Oct 2011
Approval	11 Dec 2012
Last Review Mission	-
Last PDS Update	30 Sep 2019

## Grant 0326-PHI

Milestones							
Approval	Signing Date	Effectivity Date	Closing				
			Original	Revised		Actual	
11 Dec 2012	27 Sep 2013	13 Dec 2013	30 Jun 2018	30 May 2019		12 Dec 2019	
Financing Plan				Grant Utilization			
	Total (Amount in US\$ million)			Date	ADB	Others	Net Percentage
Project Cost	5.00			Cumulative Contract Awards			
ADB	0.00			17 Jun 2022	0.00	0.07	1%
Counterpart	0.00			Cumulative Disbursements			
Cofinancing	5.00			17 Jun 2022	0.00	0.07	1%
Status of Covenants							
Category	Sector	Safeguards	Social	Financial	Economic	Others	
Rating	-	Satisfactory	-	Satisfactory	-	Satisfactory	

## Loan 2964-PHI

Milestones							
Approval	Signing Date	Effectivity Date	Closing				
			Original	Revised	Actual		
11 Dec 2012	27 Sep 2013	13 Dec 2013	30 Jun 2018	30 May 2019	28 Oct 2019		
Financing Plan				Loan Utilization			
	Total (Amount in US\$ million)			Date	ADB	Others	Net Percentage
Project Cost	399.00			Cumulative Contract Awards			
ADB	300.00			17 Jun 2022	21.82	0.00	100%
Counterpart	99.00			Cumulative Disbursements			
Cofinancing	0.00			17 Jun 2022	21.82	0.00	100%
Status of Covenants							
Category	Sector	Safeguards	Social	Financial	Economic	Others	
Rating	-	Satisfactory	-	Satisfactory	-	Satisfactory	

Loan 8261-PHI

Milestones					
Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
11 Dec 2012	27 Sep 2013	13 Dec 2013	30 Jun 2018	30 May 2019	08 Oct 2019

Financing Plan			Loan Utilization			
	Total (Amount in US\$ million)		Date	ADB	Others	Net Percentage
Project Cost	100.00		Cumulative Contract Awards			
ADB	0.00		17 Jun 2022	0.00	7.41	100%
Counterpart	0.00		Cumulative Disbursements			
Cofinancing	100.00		17 Jun 2022	0.00	7.41	100%

Status of Covenants						
Category	Sector	Safeguards	Social	Financial	Economic	Others
Rating	-	Satisfactory	-	Satisfactory	-	Satisfactory

Project Page	<a href="https://www.adb.org/projects/43207-013/main">https://www.adb.org/projects/43207-013/main</a>
Request for Information	<a href="http://www.adb.org/forms/request-information-form?subject=43207-013">http://www.adb.org/forms/request-information-form?subject=43207-013</a>
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