



FAST Report

Project Number: 53437-001
December 2021

Loan and Administration of Loan E Smart Transport Company Limited E Smart Bangkok Mass Rapid Transit Electric Ferries Project (Thailand)

This is an abbreviated version of the document, which excludes information that is subject to exceptions to disclose set forth in ADB's Access to Information Policy.

Asian Development Bank

CURRENCY EQUIVALENTS

(as of 25 October 2021)

Currency unit	–	baht (B)
B1.00	=	\$0.0302
\$1.00	=	B33.1

ABBREVIATIONS

ADB	–	Asian Development Bank
COVID-19	–	coronavirus disease
CTF	–	Clean Technology Fund
E Smart	–	E Smart Transport Company Limited
E&S	–	environmental and social
e-ferry	–	electric ferry
Energy Absolute	–	Energy Absolute Public Company Limited
GHG	–	greenhouse gas
MRT	–	mass rapid transit
MW	–	megawatt
SDCC	–	Sustainable Development and Climate Change Department
TA	–	technical assistance
tCO ₂ e	–	tons of carbon dioxide equivalent

NOTE

In this report, “\$” refers to United States dollars.

Vice-President	Ashok Lavasa, Private Sector Operations and Public–Private Partnerships
Director General	Suzanne C. Gaboury, Private Sector Operations Department (PSOD)
Deputy Director General	Christopher Q. Thieme, PSOD
Director	Jackie B. Surtani, Infrastructure Finance Division 2 (PSIF2), PSOD
Team leader	Won Myong Hong, Senior Investment Specialist, PSIF2, PSOD ^a
Project advisor	Daniel Wiedmer, Principal Investment Specialist, PSIF2, PSOD ^a
Team members	Genevieve Abel, Principal Transaction Support Specialist (Integrity), Private Sector Transaction Support Division (PSTS), PSOD
	Alexandra Pamela Chiang, Senior Transport Specialist, Transport Sector Group, Office of the Cluster Head, Sustainable Development and Climate Change Department
	Ultriz Uzein T. Corcuera, Associate Economics Officer, PSTS, PSOD
	Purificacion F. Guilaran, Senior Investment Officer, Office of the Director General-Risk Analytics Unit, PSOD
	Oranuch Jetwattana, Senior Project Officer, Thailand Resident Mission (TRM), Southeast Asia Department (SERD)
	Manfred Kiefer, Principal Economist, PSTS, PSOD
	Melissa M. Manguiat, Senior Safeguards Officer, PSTS, PSOD
	Nicholas Moller, Principal Counsel, Office of the General Counsel
	Noel Peters, Principal Safeguards Specialist, PSTS, PSOD
	James A. Roop, Principal Country Specialist, TRM, SERD
	Amanda Satterly, Senior Social Development Specialist (Gender & Development), PSTS, PSOD
	Richard Sherrington, Senior Safeguards Specialist, PSTS, PSOD

^a Outposted to the Thailand Resident Mission.

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PROJECT AT A GLANCE

1. Basic Data		Project Number: 53437-001	
Project Name	E Smart Bangkok Mass Rapid Transit Electric Ferries Project	Department/Division	PSOD/PSIF2
Country	Thailand		
Borrower	E Smart Transport Company Limited		
Portfolio at a Glance	https://www.adb.org/Documents/LinkedDocs/?id=53437-001-PortAtaGlance		
2. Sector	Subsector(s)	ADB Financing (\$ million)	
✓ Transport	Water transport (non-urban)		6.10
		Total	6.10
3. Operational Priorities		Climate Change Information	
✓ Addressing remaining poverty and reducing inequalities		GHG reductions (tons per annum)	18,900.000
✓ Accelerating progress in gender equality		Climate Change impact on the Project	Low
✓ Tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability		ADB Financing	
✓ Making cities more livable		Adaptation (\$ million)	0.00
		Mitigation (\$ million)	6.10
		Cofinancing	
		Adaptation (\$ million)	0.00
		Mitigation (\$ million)	5.50
Sustainable Development Goals		Gender Equity and Mainstreaming	
SDG 9.1, 9.4		Effective gender mainstreaming (EGM)	✓
SDG 12.6		Poverty Targeting	
SDG 13.a		General Intervention on Poverty	✓
4. Nonsovereign Operation Risk Rating			
Obligor Name		Final Project Rating	Facility Risk Rating
E Smart Transport Company Limited		Confidential Information Deleted.	Confidential Information Deleted.
5. Safeguard Categorization Environment: B Involuntary Resettlement: C Indigenous Peoples: C			
6. Financing			
Modality and Sources		Amount (\$ million)	
ADB		6.10	
Nonsovereign Local Currency Loan (Regular Loan): Ordinary capital resources		6.10	
Cofinancing		5.50	
Clean Technology Fund (Full ADB Administration)		5.50	
Others ^a		21.10	
Total		32.70	
Currency of ADB Financing: US Dollar, Baht			

^a Derived by deducting ADB financing and Cofinancing from Total Project Cost.

I. INTRODUCTION

1. This is an eligible transaction under the Faster Approach to Small Nonsovereign Transactions (FAST) framework.¹ The transaction involves a loan of up to B200,000,000 (or its equivalent in United States dollars) to E Smart Transport Company Limited (E Smart) for the E Smart Bangkok Mass Rapid Transit Electric Ferries Project in Thailand and the administration of a loan of up to \$5,500,000 to be provided by the Clean Technology Fund (CTF) and administered by the Asian Development Bank (ADB).²

2. The ADB loan will support E Smart in developing and operating 27 electric ferries (e-ferries) for mass rapid transit (MRT) along the Chao Phraya River in Bangkok, Thailand. The project is expected to be the first commercial-scale use of e-ferries for MRT in Southeast Asia. The project will help reduce air and noise pollution and contribute to Thailand's nationally determined contribution under the Paris Agreement by reducing greenhouse gas (GHG) emissions by an estimated 18,900 tons of carbon dioxide equivalent (tCO₂e) per year. ADB has led the transaction, helping to catalyze \$2 of cofinancing from development finance sources for every \$1 of ADB investment.³ ADB has also led the structuring of a targeted, blended concessional finance loan from the CTF to help support this innovative, sustainable transport project. This will be the first project supported under the CTF Sustainable and Energy Efficient Transport Sub-Program managed by ADB.⁴ The project has benefited from close One ADB collaboration between ADB's Private Sector Operations Department, Southeast Asia Department, and the Sustainable Development and Climate Change (SDCC) Department, including SDCC technical assistance (TA) to obtain concessional funding resources and support with technical due diligence.⁵ The project will contribute to ADB's Strategy 2030 (footnote 24) climate change mitigation target and be classified *effective gender mainstreaming*, helping to promote gender equality and women's empowerment in E Smart's business activities.

II. THE PROJECT

A. Project Identification and Description

1. Project Identification

3. Bangkok, the capital of Thailand, is one of the most urbanized cities in Southeast Asia and suffers from chronic air pollution, resulting in severe economic and health impacts, including about 32,200 premature deaths per year in Thailand.⁶ The majority of Thailand's vehicles are powered by diesel or gasoline, and Bangkok's traffic congestion is ranked among the world's worst.⁷ In 2020 fuel combustion by vehicles accounted for 44%–73% of Bangkok's particular matter emissions with a diameter of less than 2.5 microns (PM_{2.5}).⁸ The transport sector also contributes significantly to climate change, accounting for about 26% of Thailand's annual GHG emissions.⁹

¹ Asian Development Bank (ADB). 2015. *Faster Approach to Small Nonsovereign Transactions*. Manila.

² The CTF is a trust fund under the Climate Investment Fund. CTF promotes the financing of projects that deploy low carbon technologies with significant potential for greenhouse gas emission reduction in energy and transport sectors.

³ CONFIDENTIAL INFORMATION DELTETED.

⁴ ADB. Dedicated Private Sector Programs III: Sustainable and Energy Efficient Transport Sub-Program. Unpublished.

⁵ ADB. 2017 *Technical Assistance for Implementation of Sustainable Transport For All*. Manila.

⁶ State of Global Air. 2020. [Thailand's ambient particulate matter pollution impact](#). Accessed on 22 October 2021.

⁷ TomTom International BV. [Traffic Index Results 2020](#). Amsterdam.

⁸ D. Marks. 2020. *Drive less to help solve Bangkok's air pollution*. Bangkok.

⁹ Energy Policy and Planning Office. 2018. *CO₂ Emission from Energy Consumption by Sector*. Bangkok.

4. Public water transport in Bangkok also contributes to air pollution and climate change, with services operating along the Chao Phraya River and a network of canals. Existing ferries that operate along Bangkok's waterways typically have very old and highly polluting diesel engines. Diesel fumes and other emissions from ferry operations contribute to the city's air pollution problem. In 2019, public water transport in Bangkok produced about 12 tons of PM_{2.5} and about 193 tons of carbon monoxide.¹⁰ Because of its proximity to Bangkok's main attractions and connections with MRT rail lines, the Chao Phraya River is the busiest waterway and the significant source for water transport emissions in Bangkok (footnote 10).

5. ADB has built strong relationships with key participants in Thailand's energy and transport sectors since 2009. ADB supported Energy Absolute Public Company Limited (Energy Absolute or the sponsor) with its maiden green bond issuance in 2019 and its first green loan financing in 2020.¹¹ Energy Absolute is a clean energy leader in the region and the company views ADB as a valuable partner. Energy Absolute's strategy is strongly aligned with Thailand's industrial, climate change, and electric mobility targets, as well as ADB's Strategy 2030 commitments to climate mitigation. CONFIDENTIAL INFORMATION DELTETED.

6. ADB has taken the lead in structuring a project finance solution with tailor-made sponsor support to address key risks and ensure compliance with more rigorous environmental and social (E&S) safeguard standards. ADB's involvement in this project and structuring expertise will help reduce cofinanciers' concerns about technology and ridership risks and catalyze financing from other development finance institutions. Concessional finance provided by the CTF and managed by ADB is also critical to improve the project's bankability and financial viability. ADB's participation will contribute to climate change mitigation by reducing GHG emissions by an estimated 18,900 tCO₂e per year, demonstrating the potential for electric mobility beyond the road vehicle sector.

2. Project Design

7. The project involves the development and operation of an e-ferry MRT service consisting of 27 e-ferries under the brand MINE Smart Ferry along the Chao Phraya River in Bangkok.¹² MINE Smart Ferry is the first fleet of e-ferries to operate on the Chao Phraya River and is expected to be the first such service in Southeast Asia. The e-ferries will be of catamaran design capable of carrying up to 250 passengers per trip.¹³ CONFIDENTIAL INFORMATION DELTETED. The e-ferries received the Thailand National Innovation Award 2020 for contribution to pollution-free transport.¹⁴

8. **Gender context.** Women in developing countries often use public transport more than men as they have few or no other mobility choices. Hence, women's ability to carry out their tasks often depends on reliable, affordable, and safe public transport.¹⁵ In Bangkok, river transport is particularly important.¹⁶ While women rely heavily on public transport, they are also more

¹⁰ E. Winijkul. 2020. *Development of Emissions Inventory for Inland Water Transport in Bangkok, Thailand*. Bangkok.

¹¹ Green bonds and green loans are innovative financial instruments to promote investments with clear environmental or climate-related benefits.

¹² A small number of e-ferries may be used for more specialized tourism services.

¹³ A catamaran is a boat with two hulls, which increases stability and therefore passenger comfort. This design offers a smoother commute experience compared to a monohull design because of reduced wave resistance.

¹⁴ The National Innovation Award is given by Thailand's National Innovation Agency (under the Ministry of Science and Technology) to recognize companies whose innovations contribute to the national economy and society.

¹⁵ FIA Foundation. 2016. *Safe and Sound - International Research on Women's Personal Safety on Public Transport*. Cape Town.

¹⁶ ADB. 2013. *Gender tool kit: Transport—Maximizing the benefits of improved mobility for all*. Manila.

concerned about their personal security. In 2016, 41% of female respondents reported facing sexual harassment while using public transport around Bangkok.¹⁷ In addition, women are under-represented in the transport, storage, and communication sector holding just 19% of jobs in 2020.¹⁸ This project has a gender action plan that seeks to address some of these gender gaps.

3. The Borrower and Sponsor

9. **Borrower.** The borrower (E Smart) is a special-purpose vehicle incorporated in Thailand to implement the project. It will be approximately 100% owned by Energy Absolute through subsidiaries.¹⁹ Energy Absolute is one of the largest renewable energy companies in Thailand and a pioneer and leader in sustainable transport sector in the country.

10. **Sponsor.** Energy Absolute was established in 2006. Its main businesses are renewable energy generation (solar and wind), and biodiesel production and distribution; it is expanding into other clean energy and sustainable transport opportunities, such as (i) production of lithium-ion batteries for transport and power; (ii) electric cars and ferries, including associated charging infrastructure; and (iii) development of new renewable energy projects outside of Thailand, and renewable energy projects with integrated battery energy storage systems. CONFIDENTIAL INFORMATION DELTETED.

11. As of June 2021, Energy Absolute operated six renewable power plants. Capacity totaled 664 megawatts (MW), comprising four solar power (278 MW) and two wind power (386 MW) plants; all have long-term power purchase agreements with the Electricity Generating Authority of Thailand and the Provincial Electricity Authority (Table 1). Energy Absolute also manufactures biodiesel, purified glycerin, and byproducts, with a production capacity of 800,000 liters per day.

Table 1: Energy Absolute Public Company Limited's Renewable Energy Portfolio

Project	Type	Capacity (MW)	Status	Commercial Operation Date	Offtaker
Lopburi	Solar	8	Operating	October 2012	PEA
Nakornsawan	Solar	90	Operating	December 2013	EGAT
Lampang	Solar	90	Operating	February 2015	EGAT
Phitsanulok	Solar	90	Operating	April 2016	EGAT
Hadkanghan ^a	Wind	126	Operating	June 2017	EGAT
Hanuman ^b	Wind	260	Operating	April 2019	EGAT
Total		664			

EGAT = Electricity Generating Authority of Thailand; MW = megawatt; PEA = Provincial Electricity Authority.

^a Hadkanghan consists of three wind power subprojects in Songkhla and Nakhon Si Thammarat provinces. Some subprojects began commercial operations in March 2017.

^b Hanuman consists of five wind power subprojects in Chaiyaphum province.

Source: Energy Absolute Public Company Limited.

12. CONFIDENTIAL INFORMATION DELTETED.

13. ADB conducted integrity due diligence on E Smart and its board of directors, shareholders, and managers.²⁰ CONFIDENTIAL INFORMATION DELETED

14. ADB conducted tax integrity due diligence.²¹ ADB's review does not give ADB cause to believe that the transaction is being used for cross-border tax evasion.

¹⁷ The Nation Thailand. 2017. [Survey Shows Women Vulnerable to Sexual Crimes on Public Transport](#). Bangkok.

¹⁸ International Labor Organization. 2020. [ILOSTAT database](#). Accessed on 13 September 2021.

¹⁹ The directors of the intermediate holding companies each hold one share, thus ownership is slightly less than 100%.

²⁰ ADB. 2003. *Enhancing the ADB's Role in Combating Money Laundering and the Financing of Terrorism*. Manila.

²¹ ADB. 2016. *Anticorruption Policy: Enhancing the Role of the Asian Development Bank in Relation to Tax Integrity*. Manila.

B. Development Impacts, Outcome, and Outputs

15. **Impacts.** The project is aligned with the following impacts: (i) connectivity and sustainable environment enhanced through the development of waterway transportation²² and (ii) GHG emissions reduced from projected business-as-usual level by 2030.²³

16. **Outcome.** The project will have the following outcome: operations of sustainable transportation services in Thailand are expanded.

17. **Outputs.** The project will have the following outputs: (i) e-ferries developed and operated, (ii) gender inclusiveness of e-ferries work environment enhanced, and (iii) gender-inclusive design features of e-ferries enhanced.

C. Alignment with ADB Strategy and Operations

18. **Consistency with ADB strategy and country strategy.** The project is consistent with ADB's Strategy 2030.²⁴ The project supports four out of seven operational priorities identified in Strategy 2030: (i) making cities more livable; (ii) tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability; (iii) accelerating progress in gender equality; and (iv) addressing remaining poverty and reducing inequalities. It also supports Strategy 2030's objectives to expand the role of private sector operations, mobilize additional resources on top of ADB's own financing, and deliver \$100 billion of cumulative climate financing by 2030. The project aligns with ADB's country partnership strategy, 2021–2025 for Thailand, which calls for continued ADB investment in electric vehicles and sustainable transport systems, and expanding the urban mass transit system to strengthen resilience and sustainability as well as the competitiveness and connectivity of Thailand.²⁵

19. **Consistency with sector strategy.** The project aligns with ADB's Sustainable Transport Initiative Operational Plan, which promotes a transport system that is efficient, safe, environment-friendly, and supports multimodal transport solutions.²⁶ A strategic investment in inland waterway transport is one of ADB's key operations in the sector. Motorized transport emissions are a significant contributor to GHG emissions, and the Sustainable Transport Initiative Operational Plan calls for solutions that encourage the use of more energy-efficient and environment-friendly modes of transport, and mode shifting on existing modes such as inland waterway transport to shorten travel distance.

20. **Lessons from previous operations.** ADB has financed sustainable transport projects in Thailand since 2018.²⁷ Lessons from prior projects include the importance of addressing ridership risk, which is a key concern for project lenders. The analysis of earlier projects also suggests that the conduct of thorough due diligence is essential in assuring lenders regarding the viability and safety of the project's operations, especially for projects with nascent technology.

²² Government of Thailand, Ministry of Transport. 2017. *Strategic Plan of Ministry of Transport (2017–2021)*. Bangkok.

²³ Government of Thailand. 2015. *Intended Nationally Determined Contribution of Thailand*. Bangkok.

²⁴ ADB. 2018. *Strategy 2030: Achieving a Prosperous, Inclusive, Resilient, and Sustainable Asia and the Pacific*. Manila.

²⁵ ADB. 2021. *Country Partnership Strategy: Thailand, 2021–2025 — Prosperity and Sustainability through Knowledge and Private Sector-Led Growth*. Manila.

²⁶ ADB. 2010. *Sustainable Transport Initiative Operation Plan*. Manila.

²⁷ ADB. 2018. *Report and Recommendation of the President to the Board of Directors: Proposed Loan to the Northern Bangkok Monorail Company Limited and Eastern Bangkok Monorail Company Limited for the Bangkok Mass Rapid Transit Project (Pink and Yellow Lines) in Thailand*. Manila; and ADB. 2020. *Report and Recommendation of the President to the Board of Directors: Proposed Loan to the Energy Absolute Public Company Limited for the Green Loan for Renewable Energy and Electric Vehicle Charging Network in Thailand*. Manila.

D. Project Cost and Financing Plan

21. The project is estimated to cost about B1,070 million. CONFIDENTIAL INFORMATION DELETED.

22. **Climate change financing.** The project will contribute to ADB's climate financing target of \$100 billion cumulatively from 2019 to 2030. Because the project financing will support the electrification of inland waterway MRT, 100% of ADB's own investment will count as climate financing (mitigation).

E. Implementation Arrangements

23. Table 4 summarizes the implementation arrangements.²⁸

Table 4: Summary of Implementation Arrangements

Aspects	Arrangements
Regulatory framework	Operation of each e-ferry requires relevant licenses in accordance with Thai Vessels Act and the Amended Navigation in Thai Waters Act. CONFIDENTIAL INFORMATION DELETED.
Management	Project development, construction, and operation will be managed by the borrower, a special-purpose vehicle incorporated in Thailand. The borrower is approximately 100% owned by Energy Absolute, the sponsor.
Implementation period	E Smart launched a pilot e-ferry service in December 2020 with 6 e-ferries. ^a CONFIDENTIAL INFORMATION DELETED.
Construction arrangements	
Ferry purchase arrangements	CONFIDENTIAL INFORMATION DELETED
Contractor and subcontractor	CONFIDENTIAL INFORMATION DELETED
Electricity charging arrangements	CONFIDENTIAL INFORMATION DELETED
Operational arrangements	
Revenue structure	E Smart will earn revenue from the sale of tickets on their e-ferries. CONFIDENTIAL INFORMATION DELETED
Operation and maintenance	CONFIDENTIAL INFORMATION DELETED.
Performance monitoring	E Smart will provide key performance indicators, including the outcome and output indicators identified in the design and monitoring framework, on an annual basis.

E Smart = E Smart Transport Company Limited, e-ferry = electric ferry, CONFIDENTIAL INFORMATION DELETED.

^a All e-ferries in pilot service have obtained relevant licenses.

Source: Asian Development Bank.

F. Projected Financial and Economic Performance

24. CONFIDENTIAL INFORMATION DELETED

²⁸ Details of Implementation Arrangements (accessible from the list of linked documents in Appendix 2).

III. THE ADB ASSISTANCE

A. The Assistance

25. ADB's assistance comprises (i) an A loan of up to B200,000,000, and (ii) a concessional loan of up to \$5,500,000 to be provided by CTF and to be administered by ADB. The ADB financing will support the first commercial application of e-ferries for MRT in Southeast Asia and will have a very strong demonstration effect. The concessional financing from CTF will help improve the bankability and financial viability of the project. ADB has led the transaction, which is expected to mobilize cofinancing from other development finance institutions CONFIDENTIAL INFORMATION DELETED

B. Value Added by ADB Assistance

26. ADB's early engagement in the project and leadership in structuring of a project finance solution with tailor-made sponsor support CONFIDENTIAL INFORMATION DELETED. The project has also benefited from close One ADB collaboration with SDCC, including TA to support technical due diligence that was provided to all lenders (footnote 5). CONFIDENTIAL INFORMATION DELETED

27. ADB helped provide a targeted blended concessional finance loan from the CTF, while its Southeast Asia Department is working closely with Thailand's Office of Transport and Traffic Policy and Planning under TA for the integration of multimodal feeder lines, including electric public transport.²⁹ The TA is expected to accelerate connectivity and expansion of Bangkok's multimodal integration network with existing MRT lines and improve the urban transport system for efficient and safe movement of people. ADB also supported E Smart in preparing a robust safety manual and providing training to its key safety personnel to implement the project's safety management program. ADB assistance ensured that E Smart's safety standards and procedures meet ADB's Safeguard Policy Statement (2009) principles and requirements and that the project promotes gender equality and women's empowerment in E Smart's business activities.

C. Risks

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IV. POLICY COMPLIANCE

A. Safeguards and Social Dimensions

28. ADB has classified the investment in compliance with ADB's Safeguard Policy Statement as follows: category B for environment, category C for involuntary resettlement, and category C for indigenous peoples. The potential project's E&S impacts have been identified, and effective measures to avoid, minimize, mitigate, and compensate for the adverse impacts are incorporated in the safeguard reports and plans.

29. ADB undertook desktop due diligence and using the COVID-19 risk screening form assessed the project to be of low risk and potential impact, thus allowing the project to proceed

²⁹ ADB. 2017. *Technical Assistance to the Kingdom of Thailand for Bangkok Mass Rapid Transit (MRT) South Purple Line Project*. Manila.

with detailed E&S due diligence as required for project financing.³⁰ ADB reviewed the project's potential E&S impacts and measures to avoid, minimize, and mitigate and compensate for adverse impacts in the safeguard reports and plans. The E&S measures and the institutional capacity and commitment of the borrower and sponsor to manage the project's E&S impacts are deemed adequate.

30. **Environment.** The borrower's E&S consultant prepared the initial E&S examination report for the project. The e-ferries' operation will generate minimal air, noise, and water pollution compared to conventional vessels operating in Chao Phraya River. CONFIDENTIAL INFORMATION DELETED. An international maritime expert was engaged to review the project's safety risks and E Smart's safety manual to ensure that the project will apply preventive and protective measures consistent with international good practice. CONFIDENTIAL INFORMATION DELETED

31. **Social.** The initial E&S examination for the project included an analysis of the potential social risks and impacts of project development and operational activities, including those relating to involuntary resettlement and indigenous peoples. CONFIDENTIAL INFORMATION DELETED. As the project is based in Bangkok where people of various ethnic identities are absorbed into the broader urban population, there are no activities that will have a direct or indirect impact on the dignity, human rights, livelihood systems, or cultures of indigenous peoples or vulnerable ethnic minority groups. CONFIDENTIAL INFORMATION DELETED

32. The borrower will comply with national labor laws and, pursuant to ADB's Social Protection Strategy (2001), will take measures to comply with the internationally recognized core labor standards.³¹ CONFIDENTIAL INFORMATION DELETED. Information disclosure and consultation with affected people will follow ADB requirements.³²

33. **Effective gender mainstreaming.** E Smart had no employees and no anti-sexual harassment policy as of 31 December 2019. Following ADB's Policy on Gender and Development (1998), the borrower has incorporated measures to promote gender equality and/or women's empowerment in its business activities. CONFIDENTIAL INFORMATION DELETED

34. **Climate change impact.** The project will avoid GHG emissions of at least 18,900 tCO₂e per year by 2025. MRT services using e-ferries provide an alternative to services that would otherwise rely on combustion engines using fossil fuels.

B. Anticorruption Policy

35. E Smart Transport Company Limited was advised of ADB's policy of implementing best international practice relating to combating corruption, money laundering, and the financing of terrorism. ADB will ensure that the investment documentation includes appropriate provisions prohibiting corruption, money laundering, and the financing of terrorism; and remedies for ADB in the event of noncompliance.

C. Investment Limitations

36. CONFIDENTIAL INFORMATION DELETED

³⁰ ADB (SDCC). 2021. Guidance Note on Safeguards Compliance during the COVID-19 Pandemic – COVID-19 risk screening checklists. Memorandum. 25 June (internal).

³¹ ADB. 2003. *Social Protection*. Manila (adopted in 2001).

³² Summary Poverty Reduction and Social Strategy (accessible from the list of linked documents in Appendix 2).

D. Assurances

37. Consistent with the Agreement Establishing the Asian Development Bank (the Charter),³³ ADB will proceed with the assistance upon establishing that the Government of Thailand has no objection to the assistance to E Smart Transport Company Limited. ADB will enter into suitable finance documentation, in form and substance satisfactory to ADB.

V. THE PRESIDENT'S DECISION

38. The President, acting under the authority delegated by the Board, has approved the loan of up to B200,000,000 from the ordinary capital resources of the Asian Development Bank (ADB) to E Smart Transport Company Limited for the E Smart Bangkok Mass Rapid Transit Electric Ferries Project in Thailand; and the administration by ADB of the loan of up to \$5,500,000 to E Smart Transport Company Limited for the E Smart Bangkok Mass Rapid Transit Electric Ferries Project to be provided by Clean Technology Fund, and hereby reports this action to the Board.

³³ ADB. 1966. *Agreement Establishing the Asian Development Bank*. Manila.

DESIGN AND MONITORING FRAMEWORK

Impacts the Project is Aligned with Enhanced connectivity and sustainable environment through the development of waterway transportation (Government of Thailand) ^a Greenhouse gas emissions reduced from projected business-as-usual level by 2030 (Intended Nationally Determined Contribution of Thailand) ^b			
Results Chain	Performance Indicators	Data Sources and Reporting Mechanisms	Risks and Critical Assumptions
Outcome Operations of sustainable transportation services in Thailand are expanded	By 2025 a. CONFIDENTIAL INFORMATION DELETED b. CONFIDENTIAL INFORMATION DELETED c. Annual amount of greenhouse gas emissions avoidance is at least 18,900 tons of carbon dioxide equivalent (2019 baseline: 0) {OP 3.1}	a.–c. Annual development effectiveness monitoring reports by the borrowers	CONFIDENTIAL INFORMATION DELETED CONFIDENTIAL INFORMATION DELETED CONFIDENTIAL INFORMATION DELETED
Outputs 1. E-ferries developed and operated 2. Gender inclusiveness of e-ferries work environment enhanced 3. Gender-inclusive design features of e-ferries enhanced	By 2023: 1a. 27 e-ferries equipped with battery capacity of 800 kilowatt-hours each are developed and operational (2019 baseline: 0) {OP 3.1.3; OP 4.1.2} 2a. CONFIDENTIAL INFORMATION DELETED (2019 baseline: 0) {OP 1.2} 2b. At least 30% of e-ferry crew are women (2019 baseline: Not applicable) {OP 2.1} 2c. E Smart implements an anti-sexual harassment policy ^e (2019 baseline: No policy) {OP 2.2.3} 3a. An online application for use by e-ferry passengers to enable them to report sexual harassment or abuse developed and implemented (2019 baseline: 0) {OP 2.2.3} 3b. At least 27 e-ferries have posters communicating zero tolerance of sexual harassment and abuse (2019 baseline: 0) {OP 2.2.3}	1.–3 Annual development effectiveness monitoring reports by the borrowers	CONFIDENTIAL INFORMATION DELETED

Results Chain	Performance Indicators	Data Sources and Reporting Mechanisms	Risks and Critical Assumptions
	<p>3c. At least 27 e-ferries each have at least 4 CCTV cameras, and at least 2 emergency buttons (2019 baseline: 0) {OP 2.2.3}</p> <p>3d. At least 27 e-ferries have designated seats near the entrance reserved for pregnant women, the elderly, and other with mobility issues (2019 baseline: 0)</p>		

Key Activities with Milestones

1. E-ferries developed and operated

1.1 CONFIDENTIAL INFORMATION DELETED.

1.2 CONFIDENTIAL INFORMATION DELETED.

2. Gender inclusiveness of e-ferries work environment enhanced

2.1 Company commences hiring process for ferry crew by Q4 2021.

2.2 The company drafts a sexual harassment policy by Q4 2022.

3. Gender-inclusive design features of e-ferries enhanced

3.1 Build and install dedicated seats for pregnant women, elderly, and persons with mobility issues by Q1 2022.

3.2 Procure CCTV cameras and emergency buttons by Q1 2022.

3.3 Hire a developer for the online application by Q1 2022.

Inputs

Loans:

Asian Development Bank: up to B200 million (or its equivalent in United States dollars)

Clean Technology Fund: \$5.5 million

Cofinancing: B400 million

Equity:

Energy Absolute Public Company Limited: B320 million

CCTV = closed-circuit television, E Smart = E Smart Transport Company Limited, e-ferry = electric ferry, OP = operational priority, Q = quarter.

^a Government of Thailand, Ministry of Transport. 2017, *Strategic Plan of Ministry of Transport (2017–2021)*. Bangkok.

^b Government of Thailand, 2015. [Intended Nationally Determined Contribution of Thailand](#). Bangkok.

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^e The anti-sexual harassment policy will apply to all staff, contractors, and casual workers; and will include a confidential reporting mechanism, confidential investigative procedure, mechanism for redress, and a non-retaliation clause.

Contribution to Strategy 2030 Operational Priorities

Expected values and methodological details for all OP indicators to which this project will contribute results are detailed in Contribution to Strategy 2030 Operational Priorities (accessible from the list of linked documents in Appendix 2).

Source: Asian Development Bank.

LIST OF LINKED DOCUMENTS

<http://www.adb.org/Documents/FastReport/?id=53437-001>

1. Sector Overview
2. Client Information
3. Details of Implementation Arrangements
4. Contribution to Strategy 2030 Operational Priorities
5. Financial Analysis
6. Economic Analysis
7. Country Economic Indicators
8. Summary Poverty Reduction and Social Strategy
9. Gender Action Plan