2022 Final Donor Report
Accelerating NDC Implementation. Unlocking Clean Buses in LAC
RG-T3078

Basic Information

Approval Year	:	2017	**Region**	:	REG
Team Leader	:	Lefevre, Benoit Jean Marie	**Country**	:	Regional
Taxonomy	:	Client Support	**Department**	:	CSD
Fund	:	ACL,INF,ORC-INF,ORC-SUS,SUS	**Sector**	:	TR - Public Transport (Bus / Train / Cable). Infrastructure And Equipment
Approval Number	:	ATN/AC-16601-RG,ATN/OC-16602-RG,ATN/OC-16603-RG	**Sub Sector**	:	UMA
Execution Agency	:	US-IDB			
Execution Status	:	Active			
Operation Objective	:	The general objective of this Technical Cooperation (TC) is to improve public transportation in LAC cities through the replacement of diesel buses with low-carbon hybrid or electric alternatives. Its specific objectives are to reduce transportation operating costs, noise levels, local pollution (which also has health benefits), and greenhouse gas emissions, to increase the reliability and service quality of transit for women and men, and to develop a job market for clean technology.			

Financial Information

Aggregated Financials

	Original	Current	% of Current Amount Financed
Amount Financed	$1,200,000.00	$1,195,314.95	
Disbursed Amount	N/A	$1,195,314.95	100.00 %
Commitments not yet disbursed Amount	N/A	-	0.00 %
Available Amount	N/A	-	0.00 %
Final Disbursement Date	Dec 14, 2022		

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ATN/AC-16601-RG:ACL	Original	Current	% of Current Amount Financed
Amount Financed	$800,000.00	$799,894.05	
Disbursed Amount	N/A	$799,894.05	100.00 %
Commitments not yet disbursed Amount	N/A	-	0.00 %
Available Amount	N/A	-	0.00 %
Final Disbursement Date	Dec 14, 2022		

ATN/OC-16602-RG:ORC	Original	Current	% of Current Amount Financed
Amount Financed	$220,000.00	$218,686.90	
Disbursed Amount	N/A	$218,686.90	100.00 %
Commitments not yet disbursed Amount	N/A	-	0.00 %
Available Amount	N/A	-	0.00 %
Final Disbursement Date	Dec 14, 2022		

ATN/OC-16603-RG:ORC	Original	Current	% of Current Amount Financed
Amount Financed	$180,000.00	$176,734.00	
Disbursed Amount	N/A	$176,734.00	100.00 %
Commitments not yet disbursed Amount	N/A	-	0.00 %

Available Amount	N/A	-	0.00 %
Final Disbursement Date	Dec 14, 2022		

Status Update

The TC execution has progressed well, both in terms of disbursement, outputs and outcomes. Because of the COVID-19 pandemic, some activities have been delayed in their execution and so we decided in 2021 to extend the TC, in order to give enough time to properly finalize the studies and ensure good appropriation by the governments and private partners. In 2022, we have finalized the work, delivered and presented the results to the Dominican government. Technical financial and fiscal assessments in the following cities: Santo Domingo (Dominican Republic), Panama City (Panama), Guanajuato (Mexico), Guatemala city (Guatemala), Cali (Colombia), San Jose (Costa Rica), Lima (Peru), Buenos Aires (Argentina), Bogota (Colombia), Medellin

(Colombia), Asuncion (Paraguay), Santiago de Chile (Chile) Workshops in those cities to engage with local and national governments, support them in the design of new public service electric-bus routes, to present the results of the technical, operational, economic, financial and fiscal viability of implementing electric buses. The TC has been instrumental in supporting: The preparation of regional facility financed by GCF and BID to support the transition to electromobility in LAC The implementation of the national Decarbonization Plan and the Electromobility law in Costa Rica The implementation of the national electromobility plan in the Dominican Republic In Costa Rica, supporting the tender preparation (published in September 2021). The approval by IDB board and by the Clean Technology Fund (CTF) of a credit lines in Ecuador (EC-L1268) and in Peru (PE-L1254) ; the public purchase of 55 electric busses in Medellin: https://blogs.iadb.org/transporte/es/los-autobuses-electricos-pueden-transformar-el-transporte-publico-de-america-latina/ the first tender in Latin America for 379 electric busses in Bogota: https://blogs.iadb.org/sostenibilidad/es/bogota-es-pionera-en-adquirir-buses-electricos-por-licitacion/ the implementation of the national Decarbonization Plan and the Electromobility law in Costa Rica: https://blogs.iadb.org/sostenibilidad/es/costa-rica-reafirma-su-liderazgo-en-movilidad-electrica/ Several blogs: Electric mobility will allow Lima to come out of the health crisis better prepared for a climate crisis:https://blogs.iadb.org/sostenibilidad/en/electric-mobility-will-allow-lima-to-come-out-of-the-health-crisis-better-prepared-for-a-climate-crisis/ Electromobility as a key element for post-COVID-19 recovery in Chile:https://blogs.iadb.org/sostenibilidad/en/electromobility-as-a-key-element-for-post-covid-19-recovery-in-chile/ ¿Son los buses eléctricos en el transporte público una opción realista para avanzar los compromisos climáticos en América Latina y el Caribe?https://blogs.iadb.org/sostenibilidad/es/buses-electricos-en-el-transporte-publico-una-opcion-realista-para-avanzar-los-compromisos-climaticos-en-lac/ Publications: Lecciones aprendidas en la implementación de modelos de negocio para la masificación de buses eléctricos en Latinoamérica y el Caribe:https://publications.iadb.org/es/lecciones-aprendidas-en-la-implementacion-de-modelos-de-negocio-para-la-masificacion-de-buses Desafíos operacionales y soluciones a la integración de buses eléctricos: lecciones de Cali, Colombia:https://publications.iadb.org/es/desafios-operacionales-y-soluciones-la-integracion-de-buses-electricos-lecciones-de-cali-colombia

Advance in the Achievement of Outcome and Outputs

Advance in the Achievement of Outcome

1 . Information, investment studies for participating cities in decision making to adopt clean buses, contributing to private investments in technology, reduction of GHG emissions and pollution from transport, improvement of public transportation and strengthening of capacity to operate clean technologies

Thanks to this TC, IDB-Group has supported adoption of electric buses in 11 countries: Mexico, Guatemala, Panama, Costa Rica, Colombia (Cali, Medellin and Bogota), Peru, Ecuador, Chile, Paraguay, Argentine and Dominican Republic. The support has been mainly focused on operational impact, economic and financial viability, financial structuring and definition of locally-adapted business models that allow private actors to invest and adopt clean technologies. Through this TC, IDB has participated in assisting with over 500 clean buses since the beginning of the project, including Bogotá where the first-in-the-region bidding process by the Integrated Public Transport System (SITP) is taking place to increase the size of the electric fleet. This TC has been the basis for 2 IDB operations (EC-L12568 and PE-L1254) currently in the approval process: 2 credit lines dedicated to electric buses to National Development Bank in Ecuador (CFN) and Peru (COFIDE), mobilizing concessional resources from the Clean Technology Fund (CTF). This TC has also been the basis for the submission to GCF secretariat of concept note for regional facility supporting transition to electromobility, and the preparation of PBL for electromobility (GU-L1182) The TC has also enabled IDB to engage in strategic dialogue with local and national governments around the region, and leverage working agreements with partner organizations such as C40 Cities, World Resources Institute, Partnering for Green Growth (P4G) and the Inter-American Dialogue

Advances in Execution

1. Component 1. Engagement preparation

Component Cost: $75,000

Output Indicator	Indicator Detail	Unit Of Measure	Baseline	Baseline Year	Means Of Verification	Theme	Year	P	P(A)	A
1.1 ^{s} Diagnostics and assessments completed	Report: Market assessment of technological alternatives – worldwide best practices (INF)	Diagnostics (#)	0	2017	Report on Market assessment	Sustainable Energy and Climate Change	**Physical**			
							2018	1	0	1
							2019	0	0	0
							2020	0	0	0
							2021	0	0	0
							2022	0	0	
							EOP 2022	1	1	1
							Financial			
							2018	7500	7500	0
							2019		7500	7500
							2020			0
							2021		0	
							2022			
							EOP 2022	7500	7500	7500

Advances In Execution: We did the "market assessment of technological - worlwide best practices" through the engagement with the 7 cities we are supporting. This allows us to be more specific on the market offer to the specific context of each city.

Output Indicator	Indicator Detail	Unit Of Measure	Baseline	Baseline Year	Means Of Verification	Theme	Year	P	P(A)	A
1.2 [s] Diagnostics and assessments completed	Report: Diagnosis of the situation in the 3 LAC participating cities (INF)	Diagnostics (#)	0	2017	Diagnosis report	Sustainable Energy and Climate Change	**Physical**			
							2018	3	0	3
							2019	3	3	3
							2020	0	0	0
							2021	0	2	2
							2022	0	0	
							EOP 2022	6	8	8
							Financial			
							2018	23750	23750	23750
							2019	23750	23750	0
							2020		23750	12970
							2021		10780	10780
							2022			
							EOP 2022	47500	47500	47500

Advances In Execution: We carried out 8 assessments in the following cities: Medellin, Bogota, Asuncion, Cali, Santo Domingo, Santiago de Chile, Ciudad de Panama, Lima. This allows us to enagge with the government and support them in preparing the tender (components 2 of this TC)

Output Indicator	Indicator Detail	Unit Of Measure	Baseline	Baseline Year	Means Of Verification	Theme	Year	P	P(A)	A
1.3 [s] Workshops organized	Kick-off meeting or workshop in the 3 LAC participating cities (INF)	Workshops (#)	0	2017	Workshops in LAC participating cities	Sustainable Energy and Climate Change	**Physical**			
							2018	3	0	3
							2019	3	3	3
							2020	0	0	0
							2021	0	0	0
							2022	0	0	
							EOP 2022	6	6	6
							Financial			
							2018	10000	10000	10000
							2019	10000	10000	10000
							2020			0
							2021		0	
							2022			
							EOP 2022	20000	20000	20000

Advances In Execution: Completed in 2019

2. Component 2. Pre-investment Support

Component Cost: $1,125,000

Output Indicator	Indicator Detail	Unit Of Measure	Baseline	Baseline Year	Means Of Verification	Theme	Year	P	P(A)	A
2.1 ^{s} Feasibility study completed	Report on technical studies: legal, regulatory, financial and target sector needs analysis (INF)	Studies (#)	0	2017	Report with technical studies	Sustainable Energy and Climate Change	**Physical**			
							2018	0	1	1
							2019	2	1	5
							2020	4	0	3
							2021	0	2	2
							2022	0	1	1
							EOP 2022	6	12	12
							Financial			
							2018			106988
							2019	185000	78012	85012
							2020	370000	353000	232345.4
							2021		130654.6	
							2022		130654.6	125880.6
							EOP 2022	555000	555000	550226

Advances In Execution: Analysis of the technical, operational, economic, financial and fiscal viability of implementing electric buses in Santo Domingo (Dominican Republic)

Output Indicator	Indicator Detail	Unit Of Measure	Baseline	Baseline Year	Means Of Verification	Theme	Year	P	P(A)	A
2.2 [s] Workshops organized	Workshops presenting the technical studies, legal, regulatory, financial and target sector needs analysis (SUS)	Workshops (#)	0	2017	Workshops presenting the technical studies	Sustainable Energy and Climate Change	**Physical**			
							2018	0	0	0
							2019	2	2	6
							2020	4	0	2
							2021	0	2	2
							2022	0	0	
							EOP 2022	6	10	10
							Financial			
							2018			0
							2019	10000	10000	15000
							2020	20000	15000	15000
							2021		0	
							2022			
							EOP 2022	30000	30000	30000

Advances In Execution: completed in 2021

Output Indicator	Indicator Detail	Unit Of Measure	Baseline	Baseline Year	Means Of Verification	Theme	Year	P	P(A)	A
2.3 [s] Workshops organized	Workshop to facilitate sectoral dialogue to select a viable business model and a sustainable financing structure (INF)	Workshops (#)	0	2017	Workshops facilitating technical dialogue	Sustainable Energy and Climate Change	**Physical**			
							2018	0	0	0
							2019	1	1	3
							2020	2	0	1
							2021	0	0	0
							2022	0	0	
							EOP 2022	3	4	4
							Financial			
							2018			0
							2019	5000	5000	25000
							2020	10000	0	5000
							2021		0	
							2022			
							EOP 2022	15000	30000	30000

Advances In Execution: completed in 2020

Output Indicator	Indicator Detail	Unit Of Measure	Baseline	Baseline Year	Means Of Verification	Theme	Year	P	P(A)	A
2.4 Project bidding package completed	INF	Bid packages (#)	0	2018	Project bidding packages completed	Climate Change	**Physical**			
							2018	0	0	0
							2019	1	1	3
							2020	2	0	0
							2021	0	1	1
							2022	0	0	
							EOP 2022	3	4	4
							Financial			
							2018			0
							2019	106666	106666	110900
							2020	193334	189100	115772.77
							2021		58327.23	58327.23
							2022			
							EOP 2022	300000	285000	285000

Advances In Execution: completed in 2021

Output Indicator	Indicator Detail	Unit Of Measure	Baseline	Baseline Year	Means Of Verification	Theme	Year	P	P(A)	A
2.5 ^{s} Procurement plan prepared	Procurement process and tender award (meetings and development of necessary documents) (INF)	Plans (#)	0	2017	Procurement Process	Sustainable Energy and Climate Change	**Physical**			
							2018	0	0	0
							2019	1	1	3
							2020	2	0	0
							2021	0	1	1
							2022	0	0	
							EOP 2022	3	4	4
							Financial			
							2018			0
							2019	81666	81666	128116
							2020	143334	96884	0
							2021		96884	96884
							2022			
							EOP 2022	225000	225000	225000

Advances In Execution: completed in 2021