

test vvvv

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Transport Ministry

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Executive Summary

Report Name:	test vvvv
Sector(s):	Transport
Year(s):	2016,2020,2021,2024,2030

Table 1: Summary of the assessments of climate actions in Transport sector

Aggregated Actions	Specific Climate Actions	Year	Type	Emission Reduction (tCO ₂ e)	MAC (tCO ₂ e/USD)
NDC	Introduction of new electric buses in Colomobo Distric	2020	GHG Ex-post	338681	N/A

Figure 1 illustrates the status of achieving emissions reduction targets of Transport sector of Sri Lanka. The expected emission reduction of the Transport sector by 2030 year is 140 tCO₂e conditionally, and 153 tCO₂e unconditionally. Mitigation actions implemented by year 2030 were able to reduce Transport sector emissions from 338681 tCO₂e.

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Emission Reduction Targets

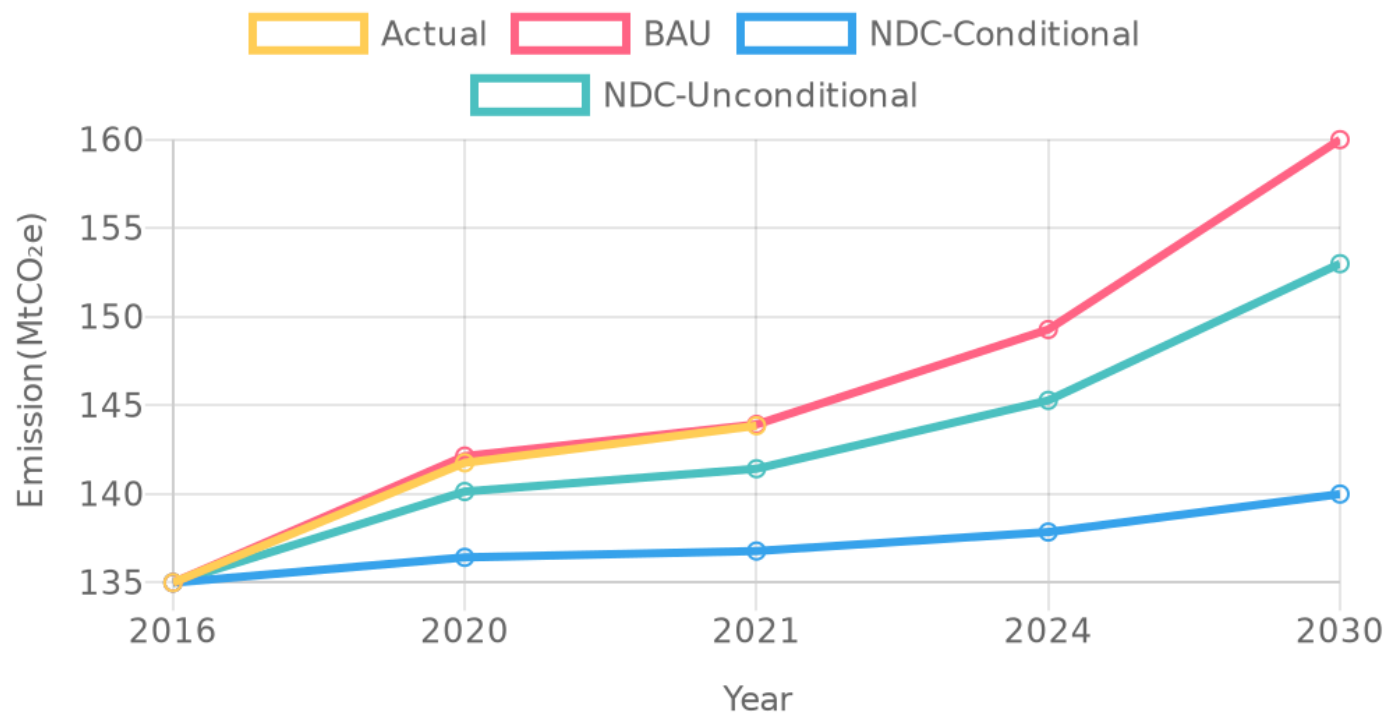


Figure 1 Emissions reduction of Transport sector of Sri Lanka

NDC

Test SCA for testing

Test SCA for testing Ministry of Education by Government to null. Action includes This is for test purposes.. The geographical boundary of the project includes Central, Kandy, Gampola. Implemented It is expected that the project will null. In addition, mitigation action has various sustainable development benefits such as null and null

Introduction of new electric buses in Colomobo Distric

Introduction of new electric buses in Colomobo Distric ClimateSI by Government to null. Action includes Introduction of new electric buses. The geographical boundary of the project includes null, null, null. Implemented It is expected that the project will null. In addition, mitigation action has various sustainable development benefits such as null and null

GHG impact assessment

System boundary

Table System boundary of the GHG impact assessment of Introduction of new electric buses in Colomobo Distric

Boundary elements	Description
Geographic Boundary	N/A, N/A, N/A
Temporal Boundary	2022 - 2020
Transport subsector	Passenger and Freight
Upstream/downstream	No
GHGs Included	Only CO2

Measurement

Assessment Approach	Ex-post
Base Year	2016
Assessment year(s)	2020
Methodology	AMS-iii-C - Emission reductions by electric and hybrid vehicles

Baseline Scenario

Diesel Bus

Table Data required to assess baseline emissions of Introduction of new electric buses in Colomobo Distric

Key indicators	Unit
Total distance - Common	km
Specific fuel consumption - Diesel-Lorry	g/km
Number of operational vehicles - Diesel-Lorry	N/A
Technology improvement factor - Common	N/A
Total distance - Common	km
Technology improvement factor - Common	N/A
CO2 emission factor - Diesel	gCO2/J
Net calorific value - Diesel	J/g

Baseline emissions attributed to the Introduction of new electric buses in Colomobo Distric are given in Table.

Table Baseline emissions of Introduction of new electric buses in Colomobo Distric

Year	Emissions (MtCO2e)
2020	339033

Project Scenario

Electric Buses

Table: Data required to assess project emissions of Introduction of new electric buses in Colomobo Distric

Key indicators	Unit
Number of operational vehicles - Electricity-Lorry	N/A
Specific fuel consumption - Electricity-Lorry	g/km
Average technical transmission and distribution losses - Electricity-Lorry	%
Total distance - Common	km
Total distance - Common	km

Key indicators	Unit
CO2 emission factor - Electricity	kgCO2/kwh

Direct project emissions attributed to the Introduction of new electric buses in Colomobo Distric are given in Table 6.

Table: Direct project emissions attributed to Introduction of new electric buses in Colomobo Distric

Year	Emissions (MtCO2e)
2020	352

Emissions estimated for 2020 are summarized in Table 9. According to the table, Introduction of new electric buses in Colomobo Distric reduce 338681 tCO2e in the 2020.

Table Emissions reduction due to Introduction of new electric buses in Colomobo Distric

Scenario	2020 Emissions (MtCO2)
Baseline emissions	339033
Project emissions	352
Lekage reductions	N/A
Emission reductions	338681

25% trucks and buses using CNG by 2030

Activity data

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Introduction of new electric buses in Colomobo Distric

Parameter	Unit	2020			
Total distance - Common	km	4050323	45050323	51200	51200
Specific fuel consumption - Diesel-Lorry	g/km	265.44			
Number of operational vehicles - Diesel-Lorry		9			
Technology improvement factor - Common		0.99	0.99		
CO2 emission factor - Diesel	gCO2/J	0.00074			
Net calorific value - Diesel	J/g	4300			
Number of operational vehicles - Electricity-Lorry		9			
Specific fuel consumption - Electricity-Lorry	g/km	1.23			
Average technical transmission and distribution losses - Electricity-Lorry	%	8.45			
CO2 emission factor - Electricity	kgCO2/kwh	0.5684			