



**MOVILIDAD
DE CERO Y BAJAS
EMISIONES**

**Public Policy for Zero and Low
Emission Mobility
2023-2040**



ALCALDÍA MAYOR
DE BOGOTÁ D.C.

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Sustainable Mobility in Bogotá

Motorized
Mobility

Rail transport and aerial cables



- "They are born" being **zero emissions**
- They are incorporated into **POT and PMSS**

Road transport

Zero and Low Emission Public Policy

Active
Mobility



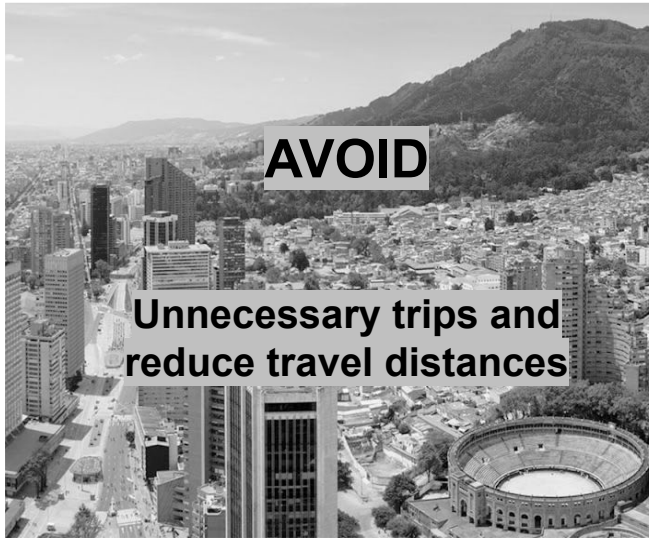
Bicycle Public Policy



Pedestrian Public Policy
In construction

Sustainable mobility approach

Mitigate the negative environmental impacts caused by the mobility sector in the city



Land Plan Use - POT
*Sustainable and Decarbonized
Mobility Policy*

Bicycle Public Policy

Pedestrian Public Policy

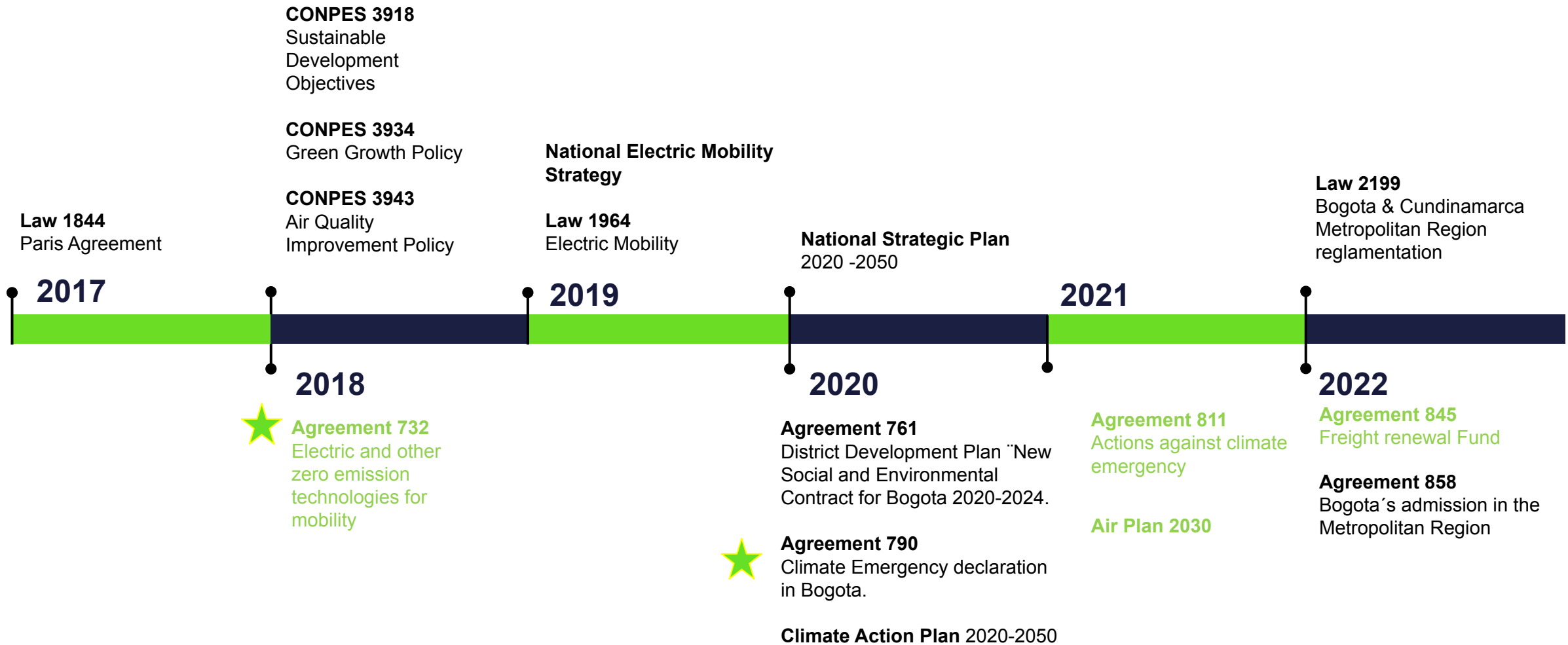
**Zero and Low Emission
Public Policy**

**Safe and Sustainable Mobility Plan
PMSS**

Legal frame

National

District



What does this Public Policy seek?

Objective: Consolidate the zero and low emission motorized mobility as an efficient, sustainable, accessible and competitive alternative in the city region.

With its implementation we will:

Mitigate the emission of local pollutants such as PM2.5, which causes more than **2,000 annual deaths**.



Mitigate **greenhouse gases emissions** generated in the city which are responsible for Climate Change



Facilitate the accessibility and empower the citizenship through the inclusion of the **differential, gender, human rights, environmental and territorial** scopes.



The emissions of the transport sector represents **43% of the basic emissions*** of **particulated matter PM2.5** and the **48% of greenhouse gases emissions** in the city.



Citizen participation



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Participation processes

By groups of actors

(85 spaces for participation in the Public Agenda and Formulation phases)

Public Agenda Phase
September 2020- June 2021

44 spaces
1.388 participants

- 3 face-to-face tables
- 15 public/private actor workshops
- 12 virtual workshops with citizenship
- 2 webinars
- 12 interviews

Formulation Phase
June 2021- March 2023

41 spaces
539 participants

- 14 public/private actor workshops
- 5 virtual workshops with citizenship
- 2 webinars
- 1 interviews
- 19 virtual meetings



By territorial approach

(in 20 locations - 290 citizens)



Women led the spaces for the construction of Public Policy!

Participation:  65%  35%



Action Plan



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How to achieve it?

Specific objectives



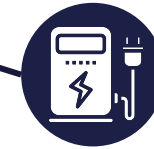
1. Promote the transition of the motorized road transportation modes to **zero and low emission technologies**



2. Strengthen management, innovation, development and research processes in the value chain of technologies for motorized mobility with zero and low emissions.



3. Develop an environment of communication, pedagogy and participation around zero and low emission mobility



4. Consolidate an intelligent, accessible and competitive charging infrastructure network, articulated with the private sector.

Scopes



Demographic



Human Rights



Gender



Environmental



Territorial

Plan de acción 2023 - 2040

Specific objectives



1

Transition to zero and low emissions

8 results
25 products

\$ 74,88 B COP



2

Management, innovation, development and research processes

2 results
7 products

\$ 5.431 M COP



3

Communication environment, pedagogy and participation

2 results
6 products

\$ 14.049 M COP



4

Intelligent charging infrastructure network

1 result
4 products

\$ 1.254 M COP

13 results
42 products

5 sectors - 6 entity involved

15 sectors implementing official fleet changes



\$ 74,9 Billons COP (constant prices 2022)

Validity : 18 years

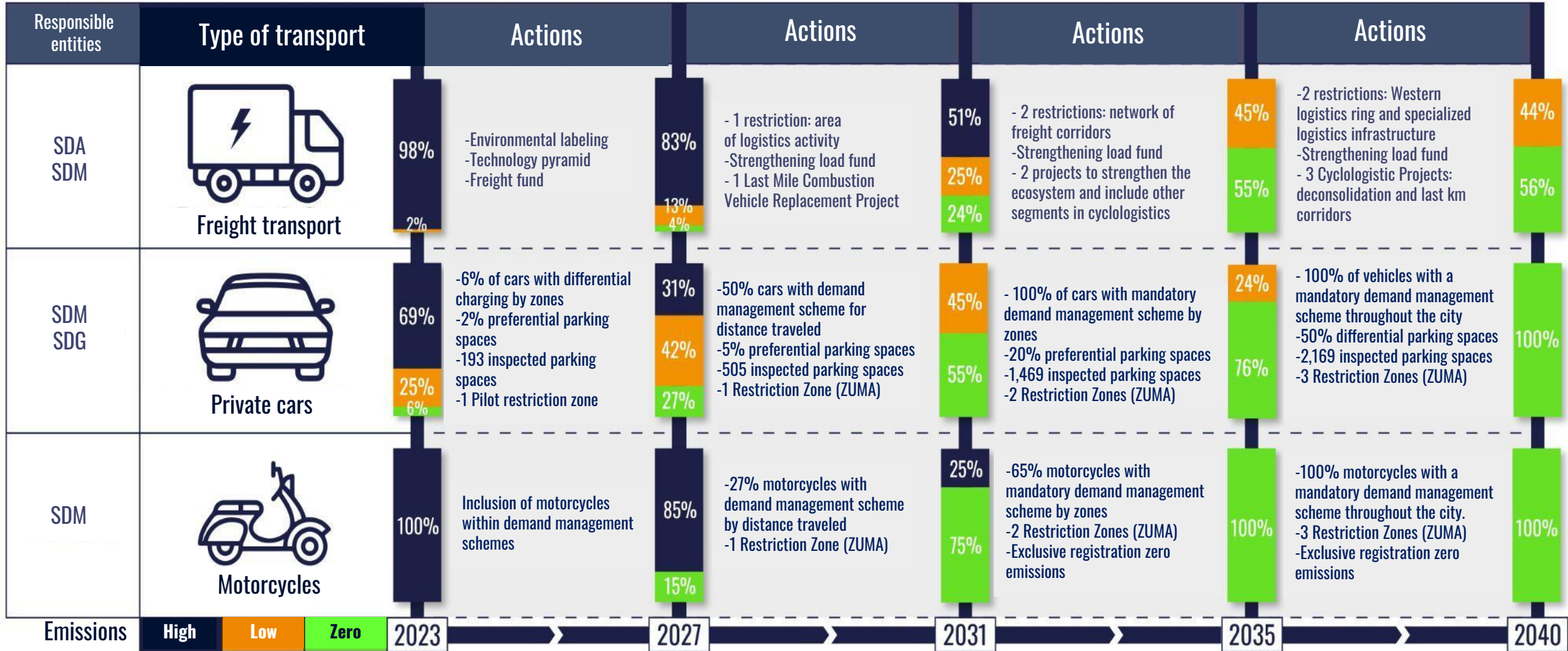
Objective 1: Transition to zero and low emissions

(8 results, 25 products)



Infrastructure projects of public transport and sustainable mobility:

- 2 Wires**
1 MB line operation + 2 construction
57.72 km of high and medium capacity corridors
- 4 Wires**
1 MB line operation + 2 construction + 1 structuring
82.18 km of high and medium capacity corridors
- 7 Wires**
3 MB Lines operation + 1 construction + 1 structuring
120.54 km of high and medium capacity corridors



Objective 1: Transition to zero and low emissions

Infrastructure projects of public transport and sustainable mobility:

2 Wires

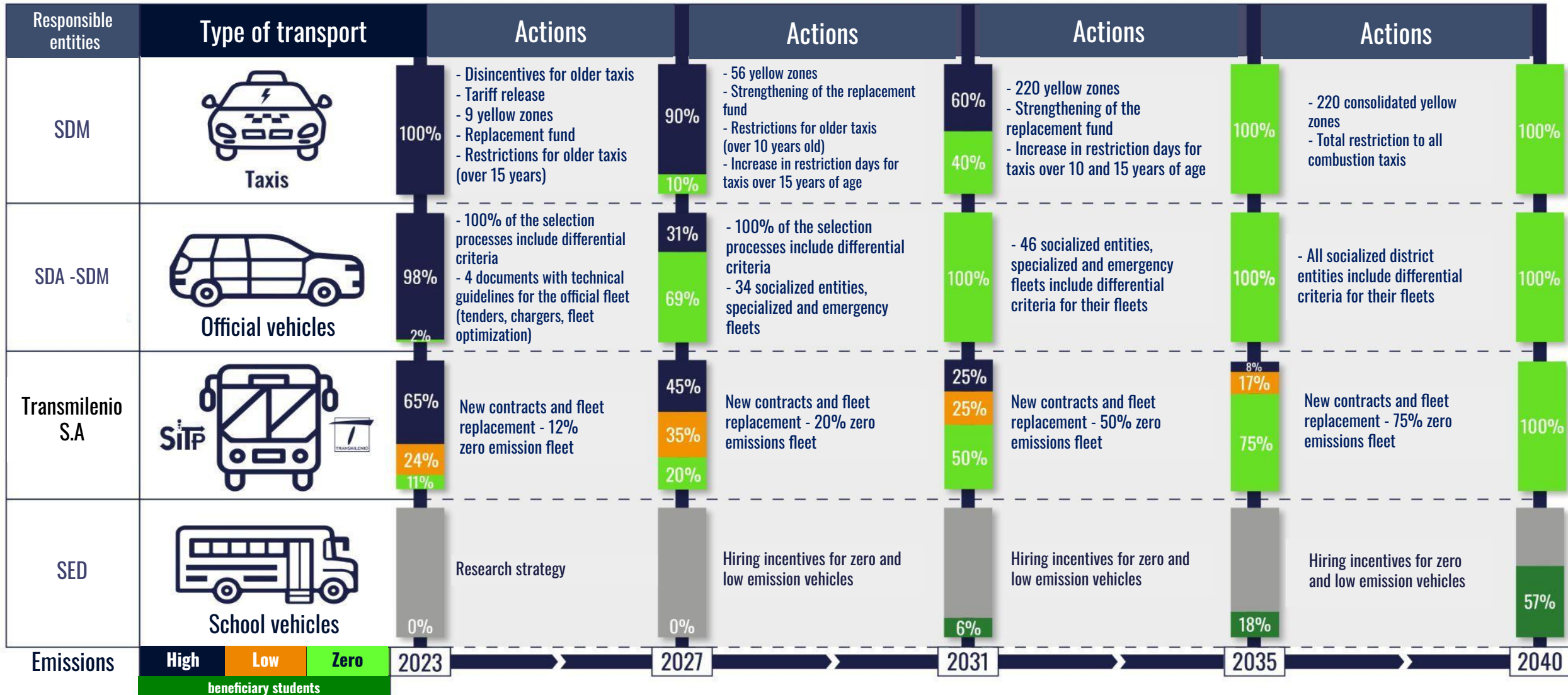
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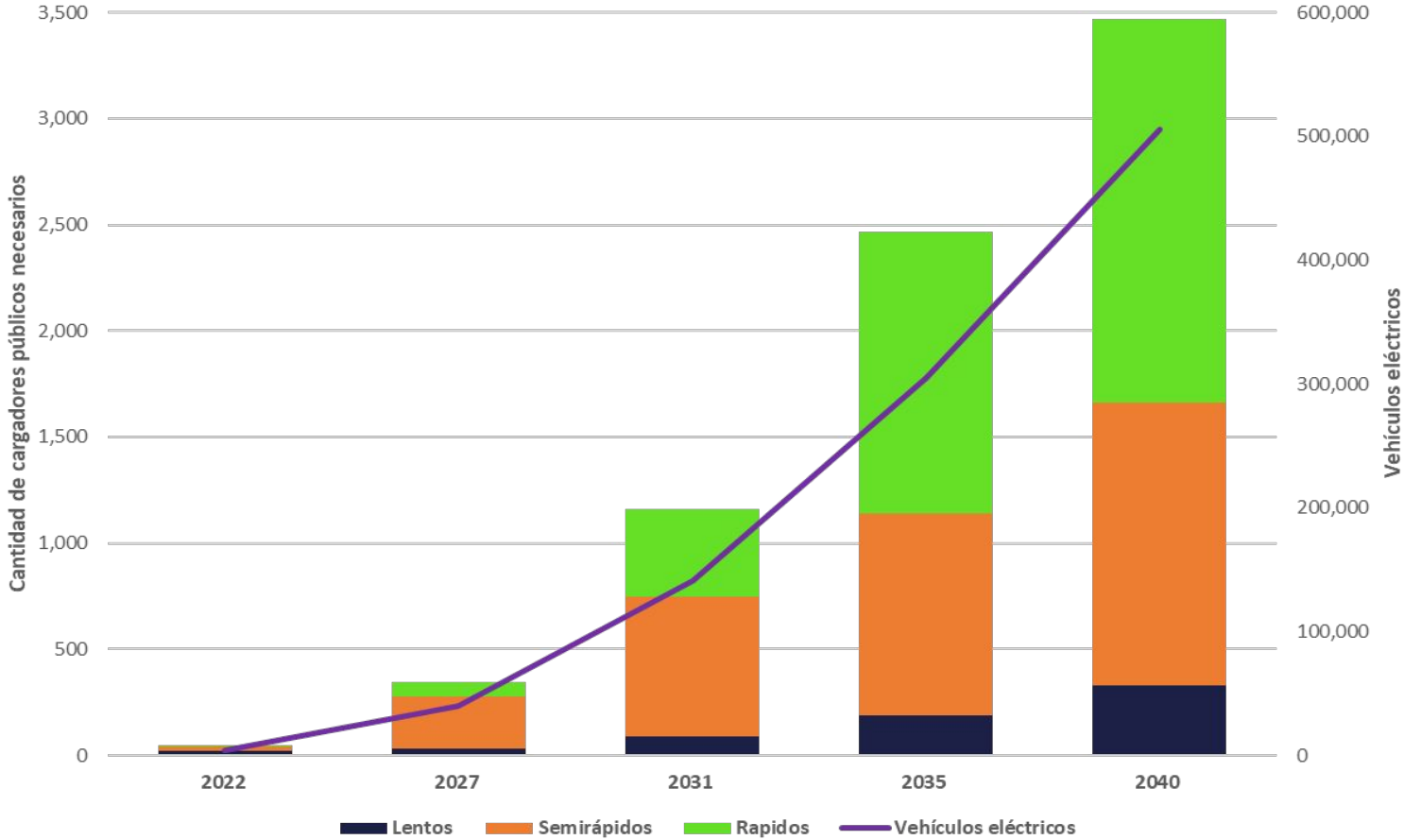
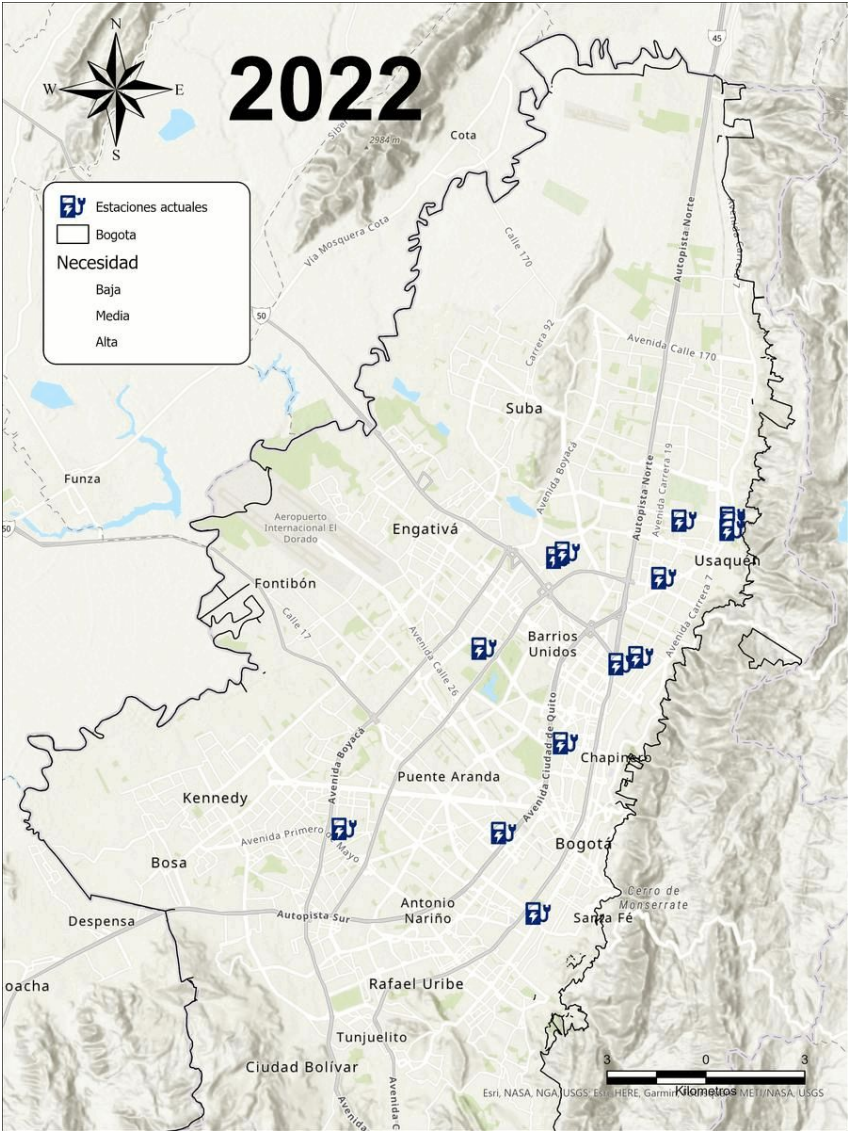
Objectives 2, 3 y 4

(5 results, 17 products)



Objective	Result	Indicator	Quantity of products	Base Line	GOAL				COST (Millions COP)	Responsible
					2024	2027	2035	2040		
2. Management, innovation, development and research processes	2.1. Increased capacities in the electric vehicle battery management chain	Percentage increase in battery management capacity	2	0%	1%	4%	24%	36%	\$190	SDA
	2.2. Electric Mobility Network	Organizations and actors linked to the Electric Mobility Network	5	0	70	130	240	300	\$5.236	SDM
3. Communication environment, pedagogy and participation	3.1 Information on zero and low emission technologies	Percentage of citizens who know about zero-emission mobility in citizen perception surveys	4	32%	34%	40%	70%	90%	\$5.843	SDM
	3.2 Increase awareness and sustainable driving practices among citizens	Effectiveness of the ECOS Strategy	2	N/D	9 %	23%	67%	100 %	\$7.296	SDA
4. Intelligent charging infrastructure network	4.1 Attention to 100% of the demand for public access charging infrastructure for electric vehicles	Percentage of attention to the demand for public access to the electric vehicle charging service	4	N/A	100%	100%	100%	100%	\$1.254	SDM

Projection needs of public access chargers



- Slow chargers: output power less than 22 kW
- Semi-fast chargers: output power > 22 kW and < 50 kW
- Fast chargers: output power greater than 50 kW

Projections of chargers needed for taxis and private cars



Summary



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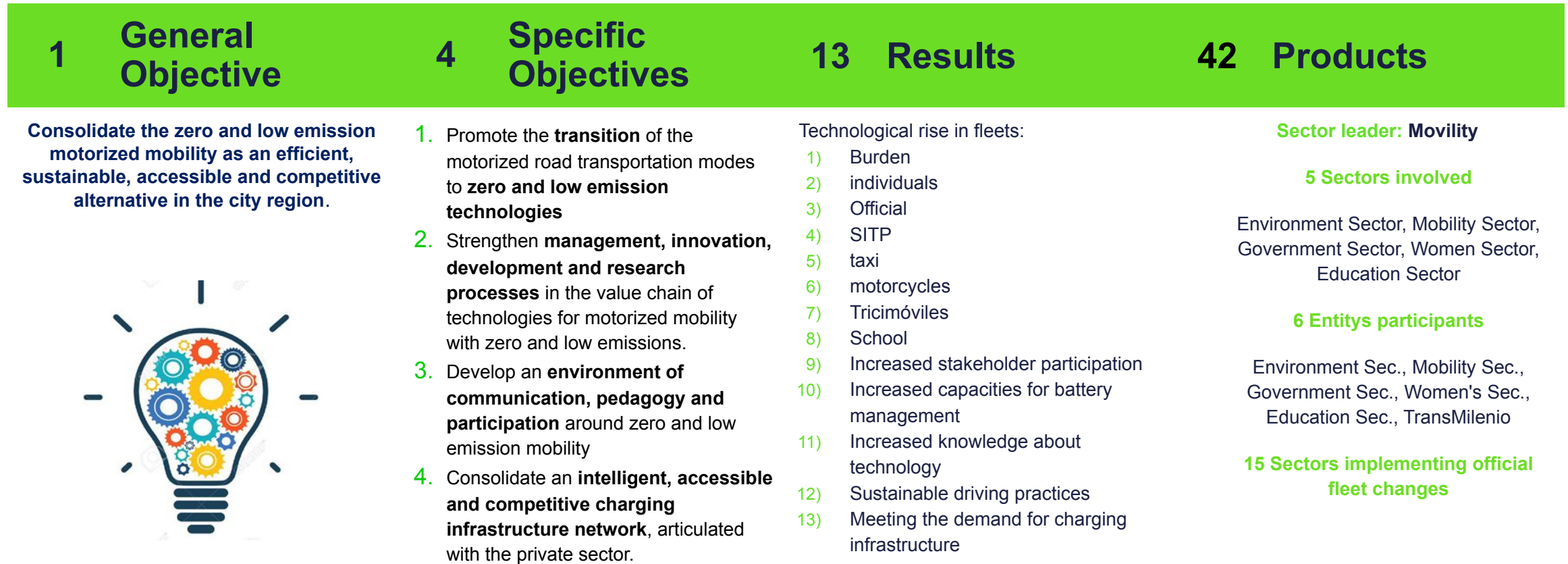
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Policy value chain



Costos por objetivos y por periodos

Precios constantes 2022



PERIOD	OBJECTIVE 1	OBJECTIVE 2	OBJECTIVE 3	OBJECTIVE 4	TOTAL PERÍOD
	 Billons COP	 Millons COP	 Millons COP	 Millons COP	Billons COP
2023	\$ 2,4	\$ 78	\$ 461	\$ 106	\$ 2,42
2024 - 2027	\$ 12,0	\$ 1.275	\$ 4.381	\$ 512	\$ 12,01
2028 - 2031	\$ 15,9	\$ 1.255	\$ 3.315	\$ 212	\$ 15,98
2032 - 2035	\$ 18,6	\$ 1.255	\$ 2.528	\$ 212	\$ 18,7
2036 - 2039	\$ 20,5	\$ 1.252	\$ 2.672	\$ 212	\$ 20,54
2040	\$ 5,2	\$ 316	\$ 692	-	\$ 5,29
TOTAL OBJETIVO	\$ 74,9	\$ 5.431	\$ 14.049	\$ 1.254	\$ 74,91

*\$74.45 B (lonely TMSA) + \$0,46 B

* correspond to CAPEX and OPEX of renewal of SITP



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Thank you



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