The path ahead – resignation or action?





PROBLEMS

IMPACTS

The increase in greenhou-

se gas emissions resulting

from global production

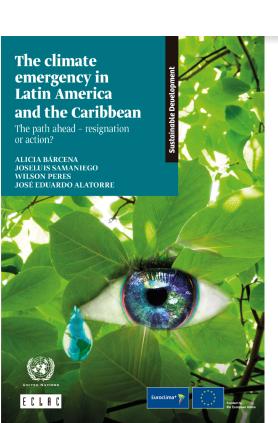
and consumption decisions

is already having a

noticeable effect on the

climate

ALTERNATIVES



Goal 13
(climate action), It highlights the urgent need to adopt measures to combat climate change and its effects, and the consequences of these changes may be irreversible if action is not taken immediately



For our region, the nationally determined contributions (NDCs) of the Paris Agreement and the Sustainable Development Goals (SDGs) are clear benchmarks for efforts to seize the opportunity to progress likewise with the quality and sustainability of national and local development, while helping to mitigate the climate emergency

PUBLIC POLICY INSTRUMENTS



There are two main obstacles to meeting the goals proposed by the Paris Agreement and the SDGs:

Problems with public policy instruments and problems with productive sectors

PRODUCTIVE

SECTORS

PHYSICAL



رالم

The economic and social problems in the Latin American and Caribbean region increase the gap to achieve sustainability.

The limit to carbon emissions or the carbon budget frames the window of opportunity that should determine the speed of change in such fundamental areas as energy production, transport and mobility, the way cities are built and the limits set on the transformation of nature.

Achieving this transformation far transcends specific sectoral or technological policies, requiring a worldwide economic shift towards a great environmental effort that must be the dominant purpose and goal of technology configurations and public policy tools, from the implementation of adaptation and mitigation measures in the different productive sectors.

MITIGATION

Mitigation measures for technological innovation and risk management in different sectors.

MIXED

Any investment aimed at restoring the natural heritage and ecosystem services will bring benefits on both the adaptation and the mitigation fronts.

ADAPTATION

Redirect investments towards adaptation through technological innovation and solutions based on nature in the different productive sectors.



The path ahead – resignation or action?







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THE 2030 AGENDA FOR THE DEVELOPMENT OF THE PARIS AGREEMENT

"Holding the

Article 2:

"Holding the increase in the global average temperature to well below 2 °C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5 °C ..."

Article 3:

"...nationally determined contributions (NDCs) ..."

GLOBAL CARBON BUDGET

REGIONAL CARBON BUDGET: ATIN AMERICA AND THE CARIBBEAN (ALC) $2^{\circ}C = 1.070 \text{ Gt de CO2}$ (would run out in about 2 decades) 1,5°C = 370 Gt CO2 (would run out in less than 1 decade) Reduction of current emissions, and make them compatible with the targets:

2 °C = Reduction of current 50 to about 40 Gt of CO₂ eq by 2030. Reducing the current 7 to less than 5 tons per capita and achieving neutrality by 2070.

1,5 °C = Reduction of current 50 to about 24 Gt of CO₂ eq by 2030.

Reducing the current 7 to less than 3 tons per capita and neutrality should be achieved by the middle of this century

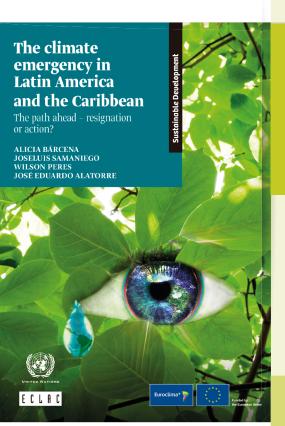
The region contributes 8.3% of global emissions, that is, 4.2 Gt of CO₂ eq

If the carbon budget were distributed in accordance with the current global emissions share of LAC, the region would have a budget of around 47 Gt of CO₂ eq and 110 Gt of CO₂ eq to meet the 1.5 °C and 2 °C targets, respectively.

The budget compatible with the 1.5 °C objective would be used up in about 11 years and that compatible with the 2 °C objective in just over 23 years.

The path ahead – resignation or action?

PROBLEMS



PUBLIC POLICY INSTRUMENTS

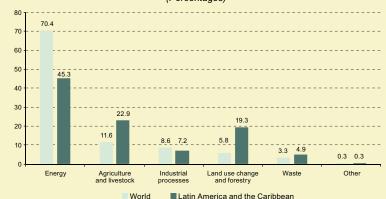
There are two main obstacles to meeting the goals proposed by the Paris Agreement and the SDGs:

Problems with public policy instruments and problems with productive sectors

PRODUCTIVE SECTORS In Latin America and the Caribbean, emissions from all sectors continue to rise and, as in the rest of the world, the greatest increase has been in the energy sector. As a result, the energy component is becoming increasingly important in the region's emissions, and transport has been one of the fastest-growing sectors within this.

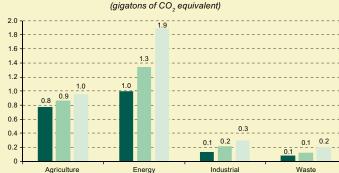
Latin America and the Caribbean and the world: sectoral shares of greenhouse gas emissions, 2016





Latin America and the Caribbean: greenhouse gas emissions, 1990. 2000 and 2016

A. Latin America and the Caribbean: greenhouse gas emissions by sector, 1990, 2000 and 2016



processes

and livestock

The path ahead – resignation or action?

PROBLEMS



PUBLIC POLICY INSTRUMENTS

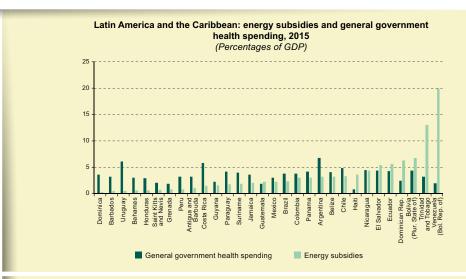
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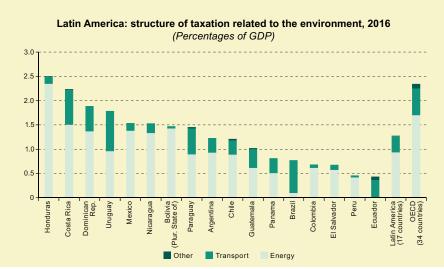
Problems with public policy instruments and problems with productive sectors

PRODUCTIVE SECTORS

Emissions of CO₂ by producers and consumers are cost-free: Only 4 LAC countries have a CO₂ tax and it is very low: Argentina, Colombia, Chile and Mexico.

The consumption or production of fossil fuels is encouraged through subsidies or tax spending, and the destruction of nature does not show up in the economic accounts





The path ahead - resignation or action?

IMPACTS

The climate emergency in Latin America and the Caribbean The path ahead - resignation or action?

ALICIA BARCENA JOSELUIS SAMANIEGO WITSON PERES JOSÉ EDUARDO ALATTORRE

INCREASES IN ATMOSPHERIC AND OCEAN TEMPERATURES



CHANGES IN PRECIPITATION PATTERNS



REDUCTIONS IN THE VOLUMES OF ICE AND SNOW



RISING SEA LEVELS



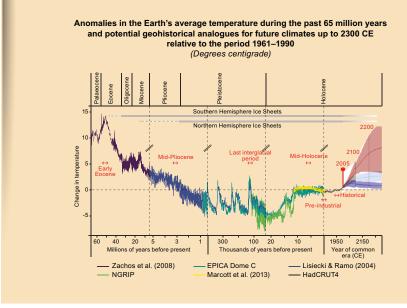
CHANGES IN EXTREME WEATHER EVENT PATTERNS

PHYSICAL

SOCIAL

The economic and social problems in the Latin American and Caribbean region increase the gap to achieve sustainability.





The path ahead – resignation or action?

IMPACTS

The climate emergency in Latin America and the Caribbean
The path ahead - resignation or action?

ALICIA BÁRCENA JOSÉLUIS SAMANIEGO WILSON PERES JOSÉ EDUARDO ALATORRE

The increase in greenhouse gas emissions resulting from global production and consumption decisions is already having a noticeable effect on the

PHYSICAL

The Caribbean: damage caused by disasters, 1990–2017
(Billions of 2017 dollars)

90

70

60

40

30

20

1990

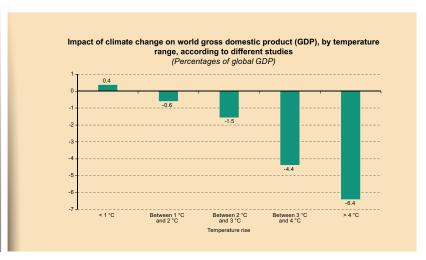
1995

2000

2005

2010

2015



SOCIAL

The economic and social problems in the Latin American and Caribbean region increase the gap to achieve sustainability.



STRUCTURAL GAPS IN INFRASTRUCTURE



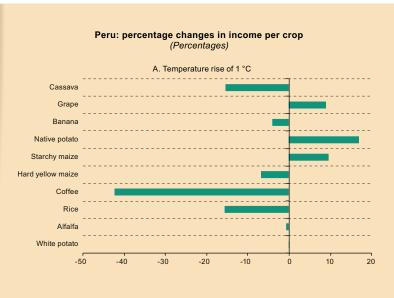
SOCIAL AND DISTRIBUTIVE INEQUALITY



HEIGHTENED PATTERNS OF EXTREME WEATHER EVENTS

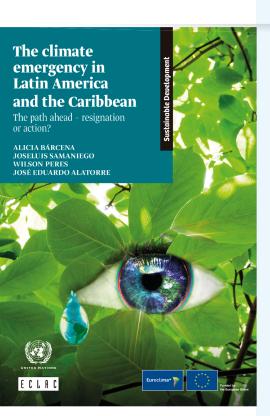


DISASTER RISK AND ITS SOCIO-ECONOMIC CONSEQUENCES



The path ahead – resignation or action?

ALTERNATIVES



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MITIGATION

MIXED

ADAPTATION

MITIGATION BENEFITS

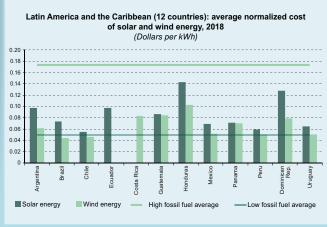
Mitigation measures for technological innovation and risk management in different sectors

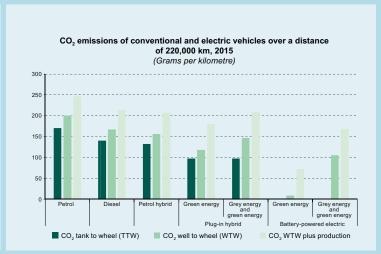












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MITIGATION

MIXED

ADAPTATION

ADAPTATION DILEMMAS

a. People/territories

b. Sectors

For contribution to the economy

For contribution to the foreign exchange

For contribution to employment

Due to its effect on economic dynamism

BENEFICIOS SUSTANTIVOS DE LA ADAPTACIÓN

Well-being of current and future populations

The security of assets and the maintenance of ecosystem goods

Functions and services now and in the future

Economic dynamism

BENEFITS AND COSTS OF ADAPTATION INVESTMENTS

Strengthening early warning systems

Making new infraestructure resilent

Improving dryland agriculture crop production

Protecting mangroves

Making water resources management more resilent

