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TO INCREASE ORGANIZATIONAL RESILIENCE, CLIMATE CHANGE IMPACTS MUST BE CONSIDERED

The concept of climate change-related risk has gained significant traction in recent years, given the magnitude of these risks as a consequence of an increased frequency and dimension of extreme meteorological phenomena caused by climate change.

To assess the physical implications of climate change, multiple models have been developed to project changes in future atmospheric and climatic conditions, which are reflected in the different scenarios described in the IPCC Assessment Reports.

Meanwhile, different organizations have described future projections of the implications related to structural, regulatory and technological changes associated with the transition to a low-carbon economy, based on the analysis of current trends,

mainly focused on the energy sector and its implications. The TCFD Recommendations, which are included in the recently released IFRS S2 international standard, were created to optimize and standardize the information emerging from the organizations' climate scenario analyses.

To assess the risks associated with climate change for *Genomma Lab Internacional* during 2023, the TCFD recommendations were used to create a scenario analysis considering the IPCC physical scenarios and the International Energy Agency (IEA) transition scenarios.





IPCC - Intergovernmental Panel on Climate Change

TCFD - Task Force on Climate Related Financial Disclosures.

IFRS - International Financial Reporting Standards

THE PROCESS OF IDENTIFYING AND ANALYZING CLIMATE-RELATED RISKS TOOK INTO ACCOUNT BOTH QUANTITATIVE AND QUALITATIVE CRITERIA

TCFD GDR-A | IFRS S2 EST-22 (a). (b)

In 2023, we conducted a climate change risk analysis considering physical and transition climate scenarios. In this way, we updated our first climate change-related risk identification exercise.

When identifying and assessing risks, we consider:

- Statistical data from the closest weather stations to each site studied, as well as newspaper and bibliographic records of weather-related events.
- An assessment of the mitigation practices and measures implemented in each industrial park and globally, including, but not limited to, energy, water, and waste management.
- The regulatory context in Mexico regarding climate change, its trend, future commitments and climate strategy contained in the Climate Change program and the NDC.

- Current climate management, technology, and market trends in the Mexican sector.
- Current sustainability trends in companies similar to Genomma, specific guidelines and recommendations for energy efficiency in pharmaceutical operations.

The physical risk identification and assessment included quantitative variables based on climate statistics and regionalized climate change scenarios for Mexico (average temperatures, maximum temperatures, precipitation, etc.).

While for the transition risk assessment, semiqualitative variables were established, combining qualitative and quantitative components based on an analysis of current trends to estimate risk impact on different aspects of the company (Results, Reputation, Finance, etc.). In both cases, risk magnitude was calculated as a function of the different variables assessed on a semi-qualitative scale, characterizing the risk as:

Risk	Description
Very High	Urgent assessment and implementation of immediate actions.
High	Actions must be assessed for implementation.
Medium	
Low	Follow-up is necessary, however, action assessment is not so relevant.
Very Low	Preventive or adaptive actions do not need to be assessed.

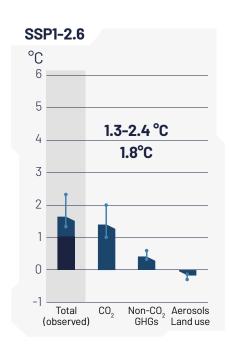
CLIMATE CHANGE-RELATED PHYSICAL RISK ANALYSIS CONSIDERED THE SHARED SOCIOECONOMIC TRAJECTORIES DESCRIBED IN THE IPCC SIXTH ASSESSMENT REPORT

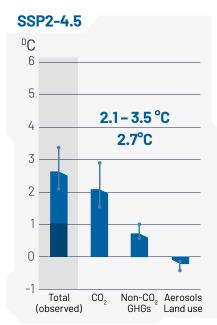
TCFD EST-C | IFRS S2 EST- 22

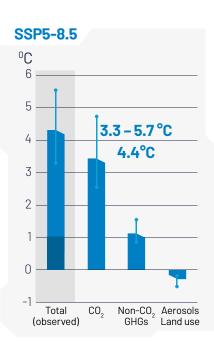
Three scenarios were considered in the climate change-related physical risk analysis: a scenario aligned with the Paris Agreement (SSP1-2.6), an intermediate scenario (SSP2-4.5) and the worst-case scenario (SSP5-8.5). The study was complemented with a water stress analysis using the Aqueduct platform.

- **a. SSP1-2.6 -** which forecasts a global average temperature increase of between **1.3 y 2.4 °C hacia 2050.**
- **b. SSP2-4.5 -** which forecasts a global average temperature increase of between **2.1 y 3.5 °C hacia 2050.**
- **c. SSP5-8.5 -**which forecasts a global average temperature increase of between **3.3 y 5.7°C hacia 2050.**

Temperature increase to 2100





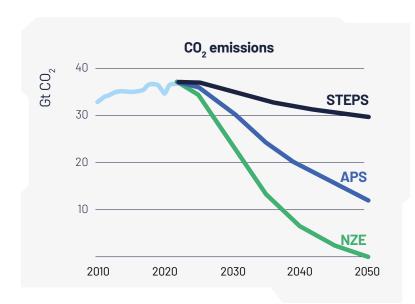


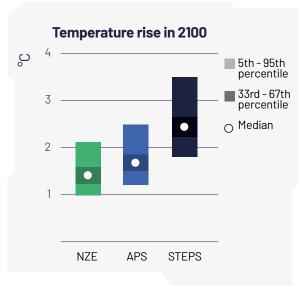
CLIMATE CHANGE-RELATED PHYSICAL RISK ANALYSIS CONSIDERED THE SHARED SOCIOECONOMIC TRAJECTORIES DESCRIBED IN THE IPCC SIXTH ASSESSMENT REPORT

TCFD EST-C | IFRS S2 EST- 22

To assess the transition risks, two scenarios described by the International Energy Agency (IEA) in its 2023 World Energy Outlook were considered.

- **a. Net Zero Emissions by 2050 (NZE) -** which forecasts a global average temperature increase of **1.5 °C by 2050** compared to the pre-industrial period with a 50% probability.
- **b. Announced Pledges Scenario (APS) –** which forecasts a global average temperature increase of **1.7 °C by 2050** compared to the pre-industrial period with a 50% probability. The analysis of this scenario was complemented by an analysis of the country's commitments to sustainability and climate change matters.





CERTAIN LIMITATIONS AND AREAS THAT ADD UNCERTAINTY TO CLIMATE RISK ANALYSIS WERE IDENTIFIED

IFRS S2 EST- 9, 10, 11, 22

	Climate risks	Information source	Limitations / Uncertainties
H	Physical hazards (water stress)	Aqueduct, a tool from the World Resources Institute (WRI)	El modelo de la herramienta es el CMIP6. La herramienta emplea tres escenarios diferentes: El Optimista (SSP2-2.6), <i>Bussiness as Usual</i> (SSP3-7.0) y el Pesimista (SSP5-8.5).
Ž	Physical risks	SSP1-2.6: MPI-ESM1-2-HR Model SSP2-4.5 and SSP5-8.5: CORDEX Model. Mexico regionalized scenarios by UNAM's Atmospheric and Environmental Sciences Informatics Unit (Unidad de Informática para las Ciencias Atmosféricas y Ambientales, UNIATMOS)	UNAM's SSP2-4.5 and SSP5-8.5 Mexico regionalized scenarios were examined using the CORDEX model, whereas the SSP1-2.6 scenario, which was not regionalized to Mexico, was produced using the MPI-ESM1-2-HR model.
	Physical risks (tropical cyclones)	IPCC WGI Interactive Atlas	Cyclones are weather systems characterized by winds circulating around a low-pressure center over warm, tropical oceans. Due to their complexity, it is difficult to assess them with the variables taken from the scenarios, so the "sea surface temperature" variable from the WGI Interactive Atlas was considered. This implies uncertainty in their assessment because the model resolution is quite high and the data obtained do not accurately reflect the values of the region under examination.
CO ₂	Transition risks	World Energy Outlook 2023, IEA IEA, Latin America Energy Outlook, 2023 Mexico NDC	There are limitations and uncertainties involved in identifying transition risks, particularly in the Net Zero scenario analysis, as it describes the scenario from a global perspective and does not provide Mexico-specific parameters. The analysis of this scenario and the APS scenario was complemented with Mexico's Nationally Determined Contributions (NDC).

SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

GENOMMA LAB INTERNACIONAL

IDENTIFIED CLIMATE RISKS

TO ASSESS PHYSICAL RISKS IN CLIMATE SCENARIOS, THE FOLLOWING VARIABLES WERE TAKEN INTO ACCOUNT

IFRS S2 EST- 9, 10, 11, 22

Sensitivity to impacts



Assessed using historical information

- Exposure to weather events
- Geographical location
- Influence on resource availability, activities

Potential impact



Assessed using a qualitative scale

• Economic impact on operations and the human factor

Responsiveness



Assessed using interviews

- Exposure to weather events
- Geographical location
- Influence on resource availability, activities

Exposure in climate scenario



Assessed using climate scenario modeling

- IPCC scenarios, different time horizons
- Change in temperature and precipitation conditions



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Exposure level

Very High

Medium

Very Low

High

Low

THE PHYSICAL RISK ANALYSIS INCLUDED NINE FACILITIES, BOTH OWNED AND OUTSOURCED, WITH GENOMMA LAB INTERNACIONAL OPERATIONS,

WHICH ARE CURRENTLY EXPOSED TO DROUGHT AND WATER STRESS, PRECIPITATION AND FLOODING, AND HEAT WAVES

TCFD EST-A, EST-B | IFRS S2 EST- 9, 10, 22

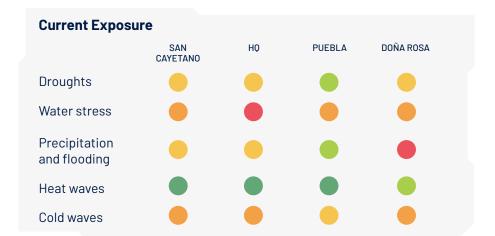
Owned Locations



San Cayetano Production
Center and CEDIS



Puebla CEDIS /
Doña Rosa CEDIS



Outsourced Locations



CEDIS Atizapán (ATZ), Mérida (MER), Villahermosa (VSA), Tijuana (TIJ), Culiacán (CUL)



CP: Corto Plazo / MP: Mediano Plazo

SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

Exposure level

Very High

Medium

Low

Very Low

High

THE PHYSICAL RISK ANALYSIS INCLUDED NINE FACILITIES, BOTH OWNED AND OUTSOURCED, WITH GENOMMA LAB INTERNACIONAL OPERATIONS,

WHICH ARE CURRENTLY EXPOSED TO DROUGHT AND WATER STRESS, PRECIPITATION AND FLOODING, AND HEAT WAVES

TCFD EST-A, EST-B | IFRS S2 EST- 9, 10, 22

11

Owned Locations



San Cayetano Production Center and CEDIS



Puebla CEDIS /
Doña Rosa CEDIS



Outsourced Locations



CEDIS Atizapán (ATZ), Mérida (MER), Villahermosa (VSA), Tijuana (TIJ), Culiacán (CUL)



SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

GENOMMA LAB INTERNACIONAL

IFRS S2 EST- 9, 10, 11



Exposure in scenario

The main threats to the San Cayetano Production Center vary according to the scenario, as shown below, with water stress and heat waves being the most significant.



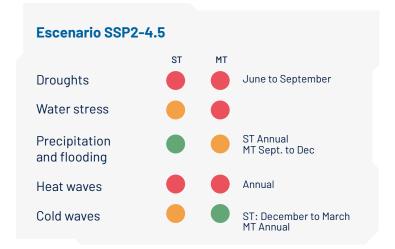
SSP1-2.6 Scenario

The main threats are water stress, precipitation and flooding, and heat waves.

Escenario SSP1-2.6 ST MT Droughts Annual Water stress ST March to June MT March to September Heat waves ST March to June MT March to September Cold waves Annual

SSP2-4.5 Scenario

The main threats are droughts, water stress and heat waves.



SSP5-8.5 Scenario

The main threats are droughts, water stress and heat waves.

Escenario SSP5-	-8.5		
	ST	MT	
Droughts			March to September
Water stress			
Precipitation and flooding			Annual
Heat waves			Annual
Cold waves			ST December to March MT Annual

SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

ST: Short Term / MT: Medium Term

GENOMMA LAB INTERNACIONAL

IFRS S2 EST- 9, 10, 11

We identified risks to production and facilities and to the supply and distribution chain based on the Production Center's activities.

However, the risks related to production, facilities and the distribution chain range from Very Low to Very High.

Risk with no mit	rigation actions	SSP1-2.6	SSP2-4.5	SSP5-8.5	
Droughts	Limited production resulting from a reduction in the amount of water available in wells	Very low			ST/MT
Heat waves	Facilities impacted by wildfires and urban fires due to extreme heat conditions				ST/MT
Heat waves	Power grid demand saturation and power supply reductions or outages	Very low	Low	Low	ST/MT
Droughts	Need to further treat water withdrawn for production purposes	Very low	Low	Low	ST/MT
Droughts	Investment in saving, efficiency, treatment and recycling technology in own facilities	Very low	Medium	Medium	ST/MT
	Disruption of operations due to power outages during heavy	Low	Very low Very low		ST
Droughts	rainfall			Very low	MT



SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

CP: Corto Plazo / MP: Mediano Plazo

GENOMMA LAB INTERNACIONAL

IFRS S2 EST- 9, 10, 11

We identified risks to production and facilities and to the supply and distribution chain based on the Production Center's activities.

However, the risks related to production, facilities and the distribution chain range from Very Low to Very High.

When considering risks in relation to Genomma's current response capacity, magnitudes decrease to "Very Low" in all cases.

Risk with mitiga	tion actions	SSP1-2.6	SSP2-4.5	SSP5-8.5	
Droughts	Droughts Limited production resulting from a reduction in the amount of water available in wells		Very low	Very low	ST / MT
Heat waves	Facilities impacted by wildfires and urban fires due to extreme heat conditions	Very low	Very low	Very low	ST/MT
Heat waves	Power grid demand saturation and power supply reductions or outages	Very low	Very low	Very low	ST/MT
Droughts	Need to further treat water withdrawn for production purposes	Very low	Very low	Very low	ST / MT
Droughts	Investment in saving, efficiency, treatment and recycling technology in own facilities	Very low	Very low	Very low	ST/MT
Duamakta	Disruption of operations due to power outages during heavy	Very low Very low		Very low	ST
Droughts	rainfall	Very low	Very low	Very low	MT

SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

ST: Short Term / MT: Medium Term

GENOMMA LAB INTERNACIONAL

IFRS S2 EST- 9, 10, 11



Risks related to the supply chain cannot be assessed because the study's scope does not include specific supplier locations.

However, they are generally expected to be High risks.

			SSP1-2.6	SSP2-4.5	SSP5-8.5	
			+ 1.8°C Water stress close to the current one More rainfall in the MT	+ 2.7°C Increased water stress Less rainfall	+ 4.4°C Increased water stress Less rainfall	
*	Droughts Heat waves	Reduction in the availability of agricultural raw materials used as active ingredients in OTC and CP products	High	High	Very High	ST/MT
*	Droughts Heat waves	Rise of pests in crop fields, limiting production and raw material quality	Medium	High	Very High	ST/MT
***	Heat waves	Decline in honeybee population and reduced availability of royal jelly as an active ingredient	High	High	Very High	ST/MT

SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

ST: Short Term / MT: Medium Term

GENOMMA LAB INTERNACIONAL

FOR OUTSOURCED LOCATIONS

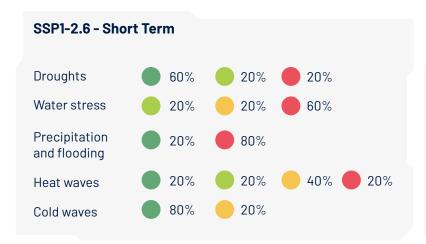
IFRS S2 EST- 9, 10, 11

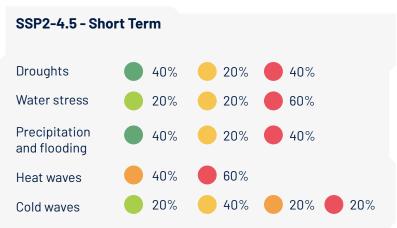


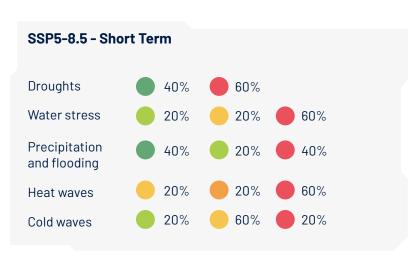
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SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS CP: Corto Plazo / MP: Mediano Plazo

FOR OUTSOURCED LOCATIONS

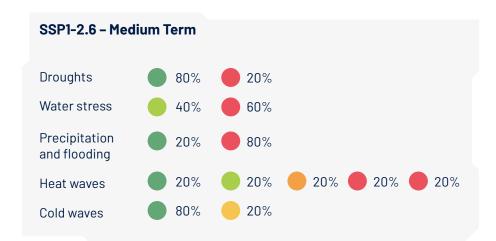
IFRS S2 EST- 9, 10, 11

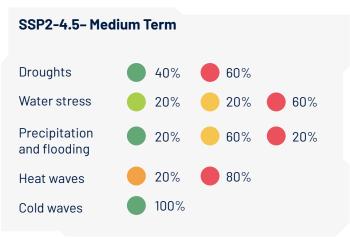


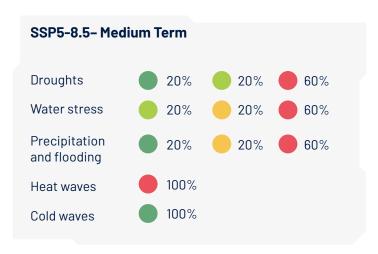
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SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

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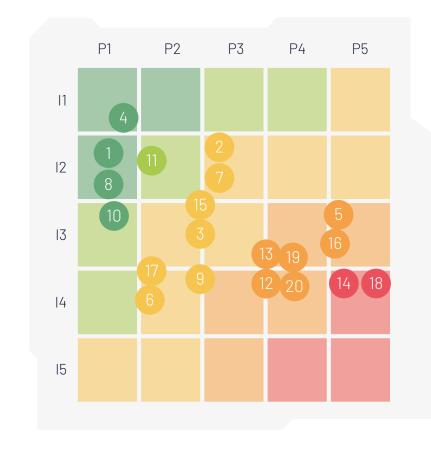
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IN THE NZE SCENARIO, A TOTAL OF 20 TRANSITION RISKS WERE IDENTIFIED,

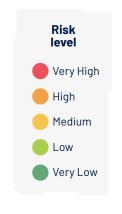
20% COULD OCCUR IN THE MEDIUM TERM, 55% IN THE SHORT TERM, AND 25% IN THE LONG TERM

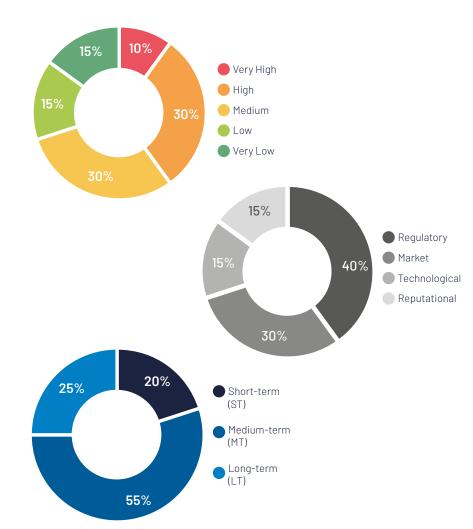
IFRS S2 EST- 9, 10, 11

The risk heat map shows that the majority of risks are classified as High or Very High Probability, as well as Medium and High Impact.









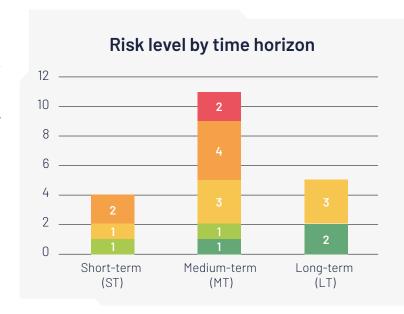
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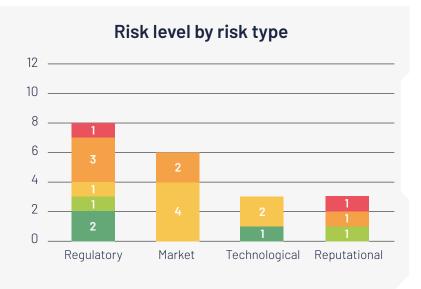
20% COULD OCCUR IN THE MEDIUM TERM, 55% IN THE SHORT TERM, AND 25% IN THE LONG TERM

IFRS S2 EST- 9, 10, 11

Risks are mainly concentrated in the medium term; risks with the highest magnitudes are found mostly in the medium term, and those of low magnitudes in the short term. Long-term risks range from Medium to Very Low.

On the other hand, the risks are mostly regulatory or market-related and, to a lesser extent, technological and reputational.



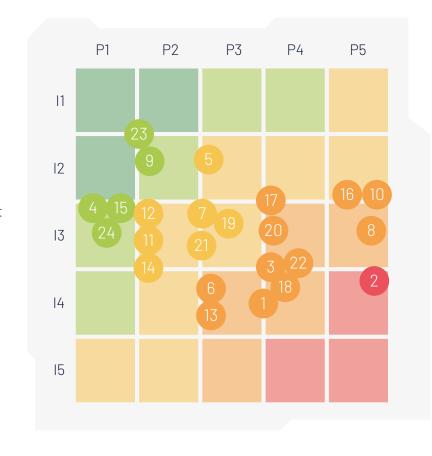


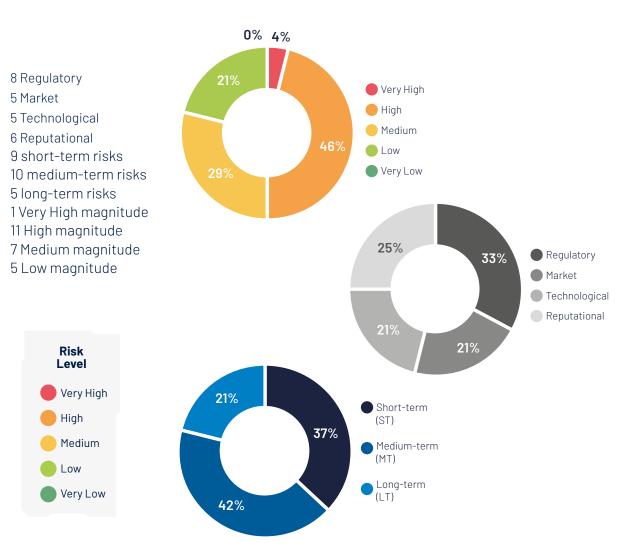
IN THE APS SCENARIO, A TOTAL OF 24 RISKS WERE IDENTIFIED,

OF WHICH 37% MAY OCCUR IN THE SHORT TERM, 42% IN THE MEDIUM TERM, AND 21% IN THE LONG TERM

IFRS S2 EST- 9, 10, 11

The risk heat map shows that most of the risks have a Medium and High potential impact and that they are concentrated in High and Very High probabilities.





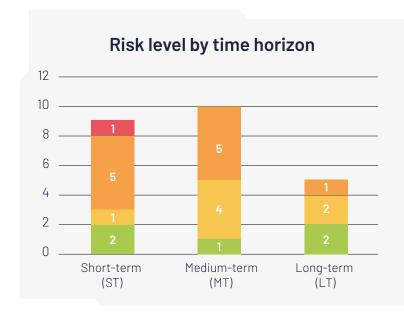
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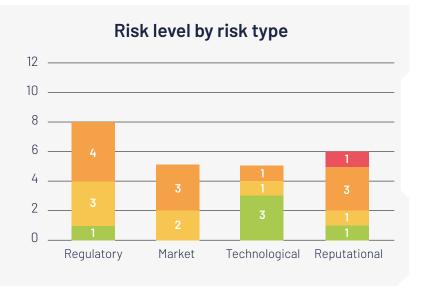
OF WHICH 37% MAY OCCUR IN THE SHORT TERM, 42% IN THE MEDIUM TERM, AND 21% IN THE LONG TERM

IFRS S2 EST- 9, 10, 11

Risks are concentrated in the short and medium term, with the highest magnitudes of risk in the short term. For the most part, risks are High Magnitude in the short and medium term, and the highest magnitude risk is in the short term.

Risks are mainly regulatory and reputational, with these two categories also accumulating the largest number of High Magnitude risks.





TRANSITION RISKS WITH THE HIGHEST MAGNITUDES

TCFD EST-A, EST-B

IFRS S2 EST- 9, 10

_	Risk factor	Scenario	Risk description	Related impact	Time horizon	Risk type	Risk level	Mitigation initiative
\	Integration of renewable energy into the energy matrix	NZE APS	Genomma's environmental commitment challenged for failing to implement renewable energy projects in the energy mix	Reduced access to capital	MT	Reputational	Very High	Cogeneration project
)	Extended Producer Responsibility Regulation	NZE	Facing fines for failure to comply with the plastic recovery goals established by the authority	Increase in indirect expenses to pay fines	MT	Regulatory	Very High	Waste Managemen
	Increased stakeholder sustainability expectations	NZE APS	Genomma's environmental commitment challenged for lack of commitment to key sustainability issues (fuel substitution, circularity, emission reduction)	Reduced access to financing	MT	Reputational	High	Sustainabilit Strategy
)2	Carbon tax imposition	NZE APS	Carbon tax imposed on GHG emissions that exceed the regulatory limitations	Investment loss due to non-compliance with GHG emissions regulation	ST	Regulatory	High	Emissions reduction strategy
•	Regulation to promote clean or low-emission transportation	NZE APS	Transportation service providers raise prices in the face of transition	Increase in outsourced transportation expenses	MT	Market	High	
	Eco-labeling regulation	APS	Genomma's commitment to sustainability challenged for using unsupported or unrecognized environmental labels	Reduced access to capital	ST	Reputational	High	Life-cycle assessment execution
	Impacts to sustainability from the value chain	APS	Negative impact on Genomma's image due to environmental effects and climate inaction linked to its value chain	Increased investment in public image and environmental offsetting	ST	Reputational	High	

SCENARIO-BASED CLIMATE CHANGE RISK ANALYSIS

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