

Impact Report

Reciclador Chile



Driving Sustainability



Message from Our CEO

André Vanyi-Robin

In a world where sustainability has become a masterpiece of global progress, we are pleased to present this reporting initiative that we call "Impact Reports". At PLASTIKS, we understand that our commitment to the environment is not just a responsibility but an opportunity to lead positive change. This impact report not only documents the journey and achievements we made together with each entity but also reflects our ongoing commitment to transparency and continuous improvement. Each step we take reflects our steadfast purpose to build a more sustainable and resilient future for all.

We are excited to share our experiences, learnings, and future projects with you, our partners, and the community. Together, we can move towards a tomorrow where the balance between human progress and the conservation of our planet becomes a tangible reality.



Message from our Head of Methodology and Verification

Delfina Achinelly

"At PLASTIKS, sustainability is not a destination but an ongoing journey. We are committed to transparency, credibility, and innovation, ensuring that we make a positive impact on the environment and on society, without forgetting the economic growth and prosperity of all relevant stakeholders, ensuring that every party involved benefits from our sustainability initiatives.

This impact report highlights our achievements and sets the stage for future collaborations, reaffirming our pledge to lead the way in sustainable solutions. While we lead, we also learn, recognizing that there is always more progress to be made. We work closely with each of the entities to ensure the success of every specific project or "roadmap".



This impact report was created using the following methodologies:

- Information provided by the Entity
- Data logged into the PLASTIKS website and app
- Research
- Interviews
- Remote audits
- On-site audits (when possible)

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Reciclador Chile



Legal Name
Reciclador Limitada



Country
Chile



Start Date
2017



Recovery Zone
Valparaiso, Quintero



Fiscal Address
Félix Sanfuentes 1201



Postal Code
2490



Webpage
recicladorchile.com

The entity "Reciclador Chile" is a recycling company that bases its activities on high standards of environmental care through the communities they serve. Since starting in 2017, they have recycled more than 4,000 tons of waste and improved the quality of life for thousands of people in Chile. They operate over 30 collection points for recyclable material in two cities.

Mission

"To provide an excellent service, implementing comprehensive solid waste management and valorization efficiently and timely, with safety and quality standards integrated into each of our processes. To raise awareness regarding environmental care, fostering shared responsibility between organizations and citizens, thus promoting the modification of consumption habits and behaviors towards the sustainable management of their waste."

Vision

"We aim to position ourselves as a well-established company in the recycling market and through this, contribute to the sustainable development of society, making recycling a tool for social, economic, and environmental transformation."

Objectives

- Raise awareness and educate about environmental stewardship, fostering a sense of shared responsibility between organizations and citizens.
- Promote changes in consumption habits and behaviors.
- Offer a comprehensive recycling service to both public and private sectors.
- Provide solutions for waste management, ranging from the manufacturing and installation of custom recycling modules to environmental education for the community.
- Implement a solid waste management system and ensure its recovery in an efficient and timely manner.



Reciclador Chile

**KPI's Notes:**

To measure environmental KPIs, Reciclador Chile uses eco-equivalencies, which are spreadsheets based on the Waste Reduction Model (WARM) developed by the EPA. This model allows for precise calculations of waste impact in terms of greenhouse gas emissions, providing detailed comparisons of potential emission reductions for different materials based on their weight. Additionally, they use an environmental matrix to assess the environmental risks of daily processes.

To measure quality KPIs, they use customer satisfaction surveys and maintain documents for product output control, among other internal control documents.

To measure health and safety KPIs, Reciclador Chile has implemented safety procedures for each working area, along with a detailed matrix to assess occupational risks. They also maintain registers for the issuance of Personal Protective Equipment and training schedules on safety topics.

Environmental Context

Location

Quintero is a Chilean commune located 170 kilometers from Santiago de Chile, 50 kilometers from the Port of Valparaíso, and 41 kilometers from Viña del Mar. Its greatest charm lies in its 16 beaches, suitable for yachting, swimming, fishing, and water skiing. Quintero is part of the Province of Valparaíso, in the Region of the same name. It belongs to Electoral District Number 10.

Climate

Quintero is in the Mediterranean zone, associated with subtropical biomes due to its climatic and geographical conditions. It has an average temperature of 14.8°C with an average annual precipitation of 300 mm/year. According to the Köppen climate classification, it corresponds to a Mediterranean oceanic climate with a mild summer. Quintero is characterized by mild warm temperatures with winter rains, a prolonged dry season, and significant cloudiness.



Wetlands

Quintero is well known for being surrounded by wetlands, most of which are considered "urban wetlands" due to their proximity to the city. This unique characteristic highlights the complexity and sensitivity of these ecosystems. In its territory, Quintero is home to the Las Petras Forest, designated as a Nature Sanctuary in 1993, covering an area of 42 hectares.

It is a swampy forest dominated by petras and cinnamon trees, along with ferns, and includes a beautiful sector of nalcas and a lagoon where various types of birdlife nest. Nalca is a plant that thrives in the Patagonian regions of Chile and Argentina. The indigenous Mapuche people, who have lived in this area for centuries, honor nalca as a "mother plant," harvesting it since prehistoric times for its powerful medicinal properties and high nutritional value.

On the way to Ritoque Beach, there is the "Los Juanes Wetland," covering 27.7 hectares in a seasonal lagoon. Its main characteristic is being a transition area between the dune field and the prairie. It was declared an urban wetland in February 2023.



Environmental Context

Tsunami Risk

In Chile, most earthquakes are related to the convergent movement of the Nazca and South American plates. These plates, compressing against each other, accumulate a large amount of energy along their contact zone, causing deformation at their edges, known as the subduction zone. This makes Chile a territory with a high concentration of large-magnitude earthquakes. All coastal areas worldwide can experience tsunamis, with Chile being one of the countries most prone to them, and the Valparaíso region having the highest concentration of population exposed to this risk.



Energy Consumption

The energy consumption for Reciclador Chile's operation is sourced from the electrical grid and is primarily utilized for the functioning of the administrative office and exterior lighting. The tricycles used for collecting recyclable materials are equipped with solar panels. No other types of renewable energy sources are currently employed.



Environmental Campaigns

Beach Cleanups: During its 6 years of existence, Reciclador Chile has conducted over 60 beach cleanups between Valparaíso, Viña del Mar, Concón, Quintero, and Puchuncaví.

Environmental Context

Green Recycling Points

Reciclador Chile has constructed 53 "green recycling points" in Quintero and Puchuncaví where citizens can leave their recyclable waste. Additionally, there is a "Mobile Green Point" allocated for specific days in locations without a 24/7 recycling service and for activities defined by the Environmental Office.

For more details, visit: [Reciclador Chile Green Points](#)

⌚ Green Points in Quintero:

This service includes two projects:

- Municipal Composting: Collects organic waste from 1,500 families, averaging 8 tons monthly.
- Green Recycling Points:
 - 24 public structures for disposing of 4 recyclable materials, accessible to the entire population, located on public roads, educational establishments, and in rural and urban areas.
 - 12 structures in private organizations.
 - Door-to-door pickups.

⌚ Green Points in Puchuncaví:

This recyclable waste management service includes installation and maintenance of:

- 10 "Green Recycling Points" in public sectors, prioritized by population size.
- 5 "Green Recycling Points" in private organizations.

⌚ Green Points in Concón:

- 2 "Green Recycling Points" in private organizations.



Green Recycling Points Structure and Materials:

There are various models of Green Recycling Points, with the most common made of iron and wood, which are not recycled materials. However, the containers are reused, often purchased after their initial use for storing tomato sauces. Currently, Reciclador Chile is developing a Green Point made from recycled iron and beverage packaging (tetrapack).

Environmental Context

Operational Areas

Explore the network of Reciclador Chile's Green Recycling Points.

This map showcases the diverse locations where Reciclador Chile's operations take place and where they are transforming waste management.

By strategically placing Green Recycling Points in accessible areas, Reciclador Chile encourages community involvement in recycling and sustainability efforts.

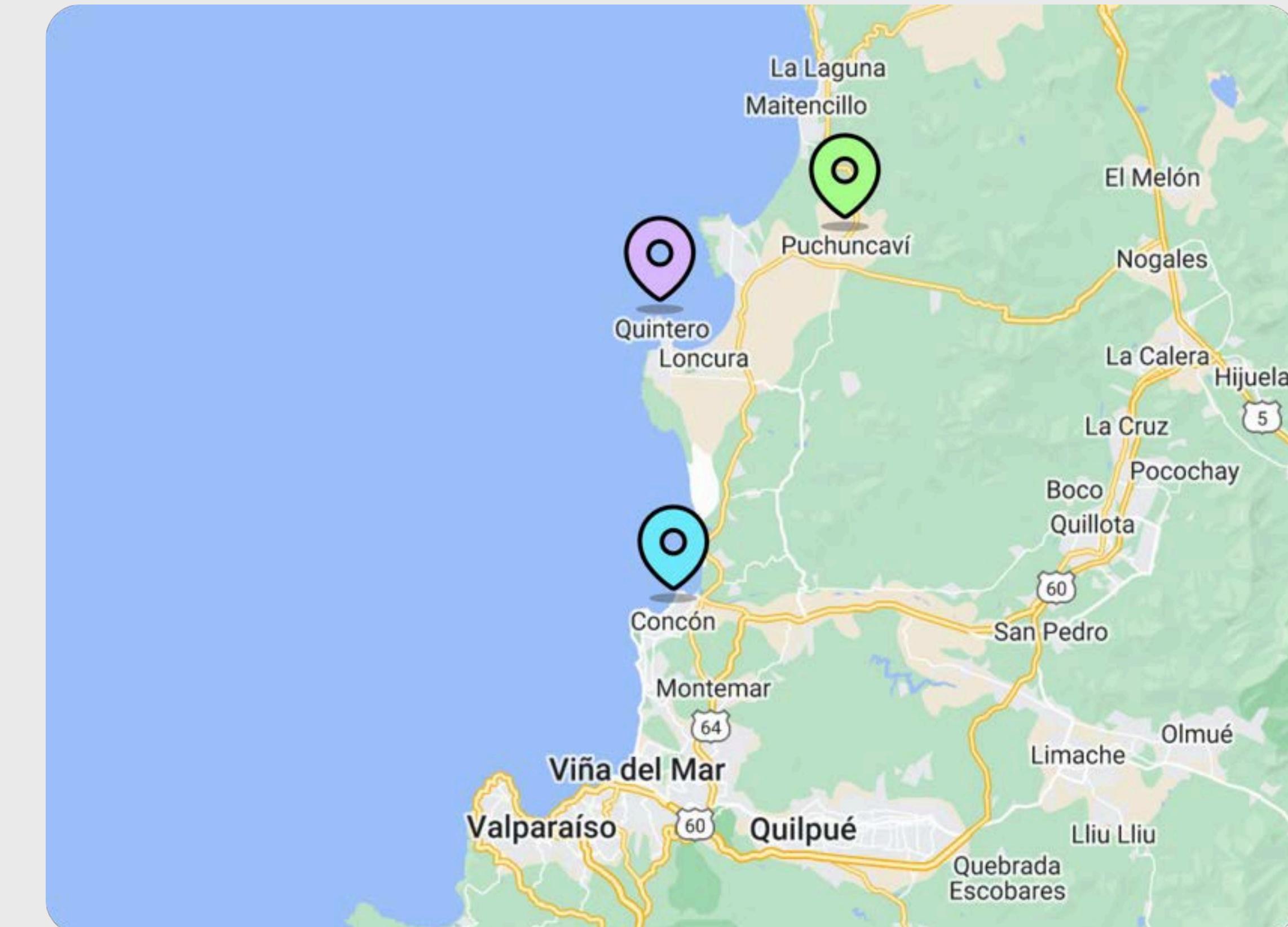
Each Green Recycleing Point represents a step towards a cleaner environment, offering convenient drop-off locations for recyclable materials.

For more details, visit: [Reciclador Chile Green Points](#)

 [Puchuncaví, Valparaíso, Chile](#)

 [Quintero, Valparaíso, Chile](#)

 [Cóncon, Valparaíso, Chile](#)



Environmental Context

Recent Pollution Cases

Quintero has suffered severe pollution cases over the past few years. These episodes have led to increased environmental awareness among the population of surrounding communes. This is evident not only in the citizens' participation in projects to improve the environment but also in the creation of working groups such as the "Council for the Environmental and Social Recovery of Quintero." The most recent pollution incidents that have impacted this community in Chile are as follows:



2011

Toxic sulfur cloud:

Between Quintero and Puchuncaví is a locality known as a "sacrifice zone" called Ventanas, where about 20 industrial companies are located. On March 23, a toxic sulfur cloud enveloped part of Puchuncaví, affecting 23 children and 7 adults at La Greda Elementary School. This school was located 500 meters from the industrial park in Ventanas. That same year, the then Minister of Health announced the closure and relocation of the school 2 kilometers from its original location. The case had significant local and national media impact.

2014

Oil spill:

On September 24, an oil spill occurred in Quintero Bay when the tanker ship Mimosa was unloading crude oil at the "Enap" refinery facilities in this commune. Approximately 37,800 liters of oil were spilled into the Pacific Ocean. The severe environmental damage also significantly impacted the local economy. Hundreds of fishermen in the Valparaíso Region Bay were unable to work for three months and have had to deal, even to this day, with the negative image and doubts of buyers due to being in a polluted bay.

2018

Toxic "yellow" cloud:

On August 21, 2018, in Quintero, 53 students had to be hospitalized due to symptoms compatible with gas inhalation poisoning. Two days later, on August 23, yellow dust could be seen in the air and on the ground over Quintero and Puchuncaví. This led to 1,400 intoxications and consequently the local government needed to set up field hospitals, this measure was taken because of the collapse of local hospitals. Specialists conducted studies and determined that the yellow cloud was composed of nitrobenzene, methyl chloroform, and toluene, three chemical substances with the potential to severely harm human health and the environment.

Social Context

Local Employment

Residents of Quintero have faced a dilemma since 2011: they know that factories in Ventanas release toxic chemical substances that pollute the air and ocean, negatively affecting human health. However, these factories also provide numerous local jobs.

Reciclador Chile employs 21 people from Quintero, offering them permanent contracts and competitive salaries. The organization places a high value on employee welfare, ensuring that all staff members receive comprehensive health insurance coverage. In addition to financial and healthcare benefits, Reciclador Chile is committed to the professional development of its employees. They offer continuous training programs across various disciplines, ensuring that their workforce remains skilled and up to date with the latest industry practices and safety protocols. This commitment to employee support and development underscores Reciclador Chile's dedication to fostering a stable and motivated team.

Environmental Awareness of Citizens

Quintero has experienced numerous episodes of severe environmental pollution that have negatively impacted the local population. As a result, the surrounding communities have developed strong environmental awareness. This awareness positively influences their commitment to recycling initiatives proposed by Reciclador Chile. The active participation of these communities is commendable and plays a crucial role in the success and expansion of Reciclador Chile's projects in the region.

The COVID-19 pandemic did not stop Reciclador Chile from continuing its mission. In fact, they noticed that people were especially eager to recycle during that time. This increased interest allowed the organization to grow exponentially during the COVID-19 quarantine, highlighting their resilience and the community's strong commitment to support environmental protection initiatives.



"Reciclador Chile employs 21 people from Quintero, offering them permanent contracts and competitive salaries."



Social Context

Environmental Education

One of the key objectives of Reciclador Chile is environmental education and awareness for local communities. To achieve this, they conduct environmental education classes in various educational institutions and in both public and private sector companies. The training they provide is intended to generate commitment to ensure recycling success.



Health and Safety

All employees of Reciclador Chile receive ongoing training on health and safety best practices. Additionally, they are provided with all necessary personal protective equipment to minimize the risk of accidents. Reciclador Chile is dedicated to staying up to date with compliance with current regulations related to health and safety.



Economic Context

Inflation and GDP (Gross Domestic Product)

Inflation in Chile has rapidly declined and is now closer to 3%. Data from the beginning of the year shows some increase in annual inflation. This is occurring in a context where economic activity has been somewhat better than expected, while consumption and investment ended 2023 weaker than initially estimated, particularly in their tradable components.

The delay in rate cuts in the U.S. and the slower reduction process in other central banks have influenced the interest rate differential between Chile and other economies. Along with the evolution of its other determinants, this has depreciated the peso. Coupled with the recent rise in some international prices, these factors will drive up annual inflation in 2024. It is expected that inflation will converge to the target of 3% within the two-year monetary policy horizon, considering the transitory nature of the aforementioned elements, an economy that will grow at expansion rates consistent with its trend, and a gradual decrease in the real exchange rate (RER). For this year, GDP growth is expected to be between 2% and 3%, with a range of 1.5% to 2.5% for 2025 and 2026.

Exchange Rate

Exchange rates refer to the number of Chilean pesos per unit of foreign currency. Among these, the Observed Dollar (Chilean pesos per United States dollar) stands out, corresponding to the weighted average price of transactions carried out by banking institutions on the previous business day. This indicator is used by various agents as a reference for the valuation of assets and liabilities in foreign currency. The Real Exchange Rate (RER) corresponds to the product of the observed nominal exchange rate and the external price index, deflated by the CPI (Consumer Price Index). It is an index that measures Chile's competitiveness concerning its main trading partners, using the evolution of parities and inflation indices of each of these countries for its calculation.

In April 2024, the Real Exchange Rate (RER) was 108.09. Compared to the previous month, it decreased by 1.54%.



"Inflation in Chile has declined to 3%, with GDP growth expected between 2% and 3% this year."

Technological Context

Solar Panels

The motorcycles operated by the organization are powered by solar panels. This sustainable method of providing energy ensures the vehicles' continuous operation while significantly reducing the carbon footprint. Reciclador Chile is dedicated to incorporating modern, eco-friendly solutions into their everyday operations. By utilizing solar energy, they demonstrate a commitment to environmental responsibility and innovation. In the near future, Reciclador Chile plans to acquire advanced machinery to further enhance their operational efficiency and sustainability (details explained later in this report). This forward-thinking approach underscores their mission to continuously improve and adapt to emerging technologies in their efforts to promote environmental conservation.



Social Media Content

Reciclador Chile has developed a unique style for creating content on social networks. Through photographs and videos, they document every activity carried out with the community. The quality and design of the content they produce are exceptional. They often use drones to record videos, adding a dynamic and professional touch to their posts. Unfortunately, the drones are currently out of service due to unexpected failures. However, they plan to replace the drones soon to continue producing high-quality content that engages and inspires their audience.



[reciclador.chile](https://www.facebook.com/reciclador.chile)



[@recicladorchile4422](https://www.youtube.com/@recicladorchile4422)



[@recicladorchile](https://www.instagram.com/recicladorchile/)

Website

The website is an accurate compilation of information, photos, and videos that help to get to know the entity. The website is a source of environmental education resources and provides transparency to the activities and objectives of Reciclador Chile. It has a modern design, and finding information is easy.



Identification of Specific Needs of the Entity

Repair Needs

Electric bicycles:

In 2020, Reciclador Chile acquired three electric bicycles for recycling operations within the Quintero region. One of their main requirements to continue collecting and recycling plastic is to repair these three electric bicycles that transport plastic from green points, beach clean-ups, schools, and within their facilities.

The electric bicycles are charged with photovoltaic panels, allowing them to collect plastic with a low carbon footprint.

One of the characteristics of Reciclador Chile's service is that the Green Points are available for use 24/7, which allows the entire community to dispose of up to 3 cubic meters of recyclable materials. The recyclable materials are removed by Reciclador Chile operators every day, according to a schedule.

Ensuring that Reciclador Chile's electric bicycles operate at their maximum capacity is of vital importance. Their operations depend significantly on the continuous and reliable performance of these electric bicycles. By maintaining their functionality and ensuring they are in constant use, Reciclador Chile can enhance their overall productivity and better meet their sustainability and recycling goals. This operational focus not only supports the company's mission but also contributes to broader environmental and economic benefits.

Improvements to be made:

When PLASTIKS first contacted Reciclador Chile, their three electric tricycles were not working. The batteries were exhausted after two years of uninterrupted work; generally, the batteries last from one to two years. They needed to fix the broken lights, movement sensors, and defective electrical systems, replace the tires and the brakes, and improve the general aesthetics of the bikes, from rust removal to applying new paint, new graphics, rear-view mirrors, railings, and more.



Resources Used for Roadmap Implementation



From a total of

US\$2461.19

allocated for the repair of three tricycles,
the necessary repairs were successfully completed.



US\$1526.49

Materials, Supplies, and Tools



US\$934.70

Human Resources

[View Invoices and Receipts](#)

Before and After

Before



After



Achievements

In nearly five years of operation, Reciclador Chile has set a commendable example for other Chilean communes. During their first year of service, they successfully positioned the commune of Quintero as the second highest recycler on a regional scale. Their ongoing objective is to elevate Quintero into the top 10 recycling communes on a national scale. This ambitious goal highlights their dedication to fostering environmental sustainability and community engagement across Chile. Reciclador Chile is an entity with high growth potential. They plan to expand their client base by approximately 10% every six months. To achieve their growth objectives, they have already begun to work on the digitalization and standardization of their processes and information. These actions will lead to more optimized services and better organization among staff.



Environmental Benefits

- Protects water resources
- Promotes renewable energy
- Reduces carbon footprint
- Extends the useful life of landfill systems
- Protects natural resources
- Reduces waste pollution

Community Benefits

- Promotes waste management
- Creates local jobs
- Provides skills development and job opportunities
- Improves employee health, safety, and education
- Promotes environmental education

Economic Benefits

- Increases cost savings by using recycled materials as inputs for new processes in Chilean companies
- Generates revenue from recycled products
- Achieves cost savings by using renewable energy (solar panels)

Bibliography

Sitrural. (2022). Quintero: Recursos Naturales. Retrieved from https://www.sitrural.cl/wp-content/uploads/2022/09/Quintero_rec_nat.pdf

Central Bank of Chile. (n.d.). Statistics. Retrieved from <https://www.bcentral.cl/web/banco-central/areas/estadisticas>

Disclaimer

This impact report accurately reflects the verified activities and results of the plastic recovery initiatives as documented by Plastiks and our partner entities. All data, including photographs and general information, were provided by the respective recovery entities and have been rigorously verified by Plastiks. We uphold the highest standards of accuracy and reliability in presenting these results. While Plastiks is committed to delivering transparent and traceable outcomes, the user of this report is responsible for any actions taken based on the provided information. Plastiks assumes no liability for any indirect consequences resulting from the use of this data. Compliance with all applicable laws and regulations remains the sole responsibility of the reader.