

# First Latin American port to certify carbon footprint

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Figure 1: Terminal Puerto Arica (TPA).

A landmark first has positioned the Terminal Puerto Arica (TPA) as an innovative and sustainable port and helped it achieve international standards. The port has attained The Carbon Footprint Certification for applying the Greenhouse Gas (GHG) estimation system to its usual operations. This initiative, pioneered within the port business, has allowed TPA to detect aspects that contribute to global warming, allowing it to take informed mitigating actions to reduce emissions in a responsible, clear and efficient way.

This accomplishment was celebrated on Tuesday 3 July in a ceremony headed by the Chilean environmental sub-secretary, Ignacio Toro Labbé and attended by representatives of some of the highest authorities in employment, economy, port constructions, maritime transport and business. At this event, TPA CEO, Pedro Jaramillo extended a thank you message to employees and suppliers for the assistance provided during the whole process: “In the old days the port was usually seen as a contaminating area, today we can happily say that we are leaders in environmental matters. This is the first port certification in Chile and in Latin America; this fact shows that in our city, employees are able to comply with international standards. We have a detailed map of the most important emissions for our port tasks and have a management plan to reduce them and become the friendliest Chilean port to the environment.” Mr Jaramillo summarized that the objective is “to reduce and manage the CO<sub>2</sub> emission, by the identification of the biggest emissions process, their costs and potential savings, to harmonize the company, the society and the environment.”

## Detailed estimation activities carried out

The GHG estimation mechanism was developed with the assistance of the sustainability team at PricewaterhouseCoopers and validated by the international company ABS Consulting. The verification scope extended to all emissions generated in the port chain of value, including the four main operators, TPA, Ultraport, Agunsa and Contopsa and estimated the total amount of emission as 21.827 tonnes of equivalent CO<sub>2</sub> (tCO<sub>2</sub>e).

The number is shown according to direct emissions (4.036 tCO<sub>2</sub>e) composed mainly of the usage of oil operating equipment



Figure 2: TPA team that led the estimation and certification process for the carbon footprint.

at the port; indirect emissions (1.182 tCO<sub>2</sub>e) including electric light and consumption at offices and refer containers; and other indirect emissions (16.609 tCO<sub>2</sub>e) include the indirect emissions from ships and trucks that arrive to the port. As this third figure of indirect emissions is out of the port’s operational reach, they will focus on reducing the emissions of the first two figures – direct and indirect emissions at the port itself.

## Creating a green port

In order to position itself as a green port, TPA joined the World Ports Climate Initiative (WPCI) in 2011. This is an international organization that integrates all the leading ports that have environmental initiatives and are concerned about global warming. Also in 2007, TPA was certified with the international standard ISO 14001, the first and main step that now allows the company to comply with environmental policies and apply a process of continual improvement.

### ABOUT THE AUTHOR

**Eric Maulén Viancos** is an environmental chemical engineer and graduate of environmental science. In Terminal Puerto Arica he served as the Environmental Coordinator, having responsibility for environmental management system ISO 14001, sector environmental permitting, environmental monitoring plans, environmental management plans and the port’s carbon footprint.

### ABOUT THE COMPANY

**Terminal Puerto Arica S.A** is a modern multipurpose port that adheres to high environmental standards which have positioned it as the first port in Latin America to verify its carbon footprint. Its transfer services include: containers, bulk, break bulk and project cargo. TPA is the leading port in the Macroandean region.

### ENQUIRIES

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