Landside Port Charges Index

Methodology | 2023



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Our principals and staff are experienced practitioners who have worked in and advised government and private sector clients about a range of commercial and economic issues. We have expertise in the fields of transport and regulatory economics; policy development and analysis; advising on commercial arrangements between government and the private sector; as well as arrangements between companies operating within regulated environments.

Our combined public and private sector experience means that we are well placed to provide our clients with a deep understanding of both the public and private sectors and the interface between them.

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The Landside Port Charges Index.

The Landside Port Charges Index (LPCI) provides a comprehensive and up to date source of container freight charges. The index focuses on terminal access, booking and ancillary charges levied by container stevedores and booking fees for empty container parks. The LCPI provides information on Port Botany, Port of Melbourne, Port of Brisbane, Port of Fremantle and Port of Adelaide, see map below.

The LPCI includes landside port charges for each year from 2018. The LPCI will be regularly updated throughout the year, with an annual update report published each year presenting insights and explaining any changes to the index, including the addition of any new charges.

This document provides an overview of the index, the methodology used to construct it and data sources.



Ports and stevedores.

The LPCI tracks fees charged by container stevedores in each of the ports included in the index. The index does not currently include charges for mixed cargo terminals that handle containers and other types of freight. Stevedores provide services related to the loading and unloading of freight from ships at the port. The landside charges are charged by stevedores to (largely) to transport operators who pass them on to cargo owners.

Port	Stevedores
Port Botany	DP WorldHutchisonPatrick Terminals
Port of Melbourne	 DP World Patrick Terminals Victoria International Container Terminal (VICT)
Port of Brisbane	DP WorldHutchisonPatrick Terminals
Port of Fremantle	DP WorldPatrick Terminals
Port Adelaide	Flinders Adelaide Container Terminal

How the LPCI is constructed.

Landside container charges can be divided broadly into three categories:

- Access charges, that are applied to the majority of container movements including freight terminal access and booking fees
- Penalty charges, that are applied to vehicles/ containers that do not meet booking requirements set by a stevedore, and
- Ancillary charges, that are applied to cover the cost of meeting unexpected vehicle or container characteristics.

Fees charged by stevedores are allocated to an appropriate category as outlined below, and a separate index is constructed for each type of charge.

Charge Type	Charge
Access Charge	 Stevedore Terminal Access Charges (Import Full) Stevedore Terminal Access Charges (Export Full) Vehicle Booking System Slot Fees (Electronic and Manual) Direct Return of Empty Container Booking Fees (DREs) Empty Container Park Booking Fees Energy Charge Maritime Security Levy Weighing Fee
Ancillary Charge	Overweight FeesSide Loader FeesLong Vehicle Fees
Penalty Charge	 No Show Fees Late Arrival / Wrong Timezone Fees Weight Amendment Fees Vehicle Misdeclaration Fee



Landside Port Charges Methodology 2023

For our 2023 update to the Landside Port Charges Index, we have made several changes to our methodology to better reflect the nature of landside charges at Australian Ports.

Access Charges

Several stevedores have recently introduced new non-discretionary access charges. While these charges are not called terminal access charges, they are effectively applied in the same way i.e., on all containers entering the port. These include an 'Energy Charge' (DP World), 'Weighing Fee' (VICT and DP World) and 'Maritime Security Levy' (VICT). These charges are now included in our access charge index to better reflect the true cost of access.

Ancillary Charges

In our 2023 update, we have revised our treatment of the weight-related charges levied by stevedores. These were formerly all treated as ancillary charges. For some stevedores, such as Patrick and VICT, the charge is implemented as a penalty for containers exceeding the declared weight limit. For other stevedores, such as Hutchison and DP World, the charges are levied in a way that is more akin to an ancillary charge. These charges are now more accurately allocated between the penalty and ancillary charge indices.

Updated NSW Penalty Charges

In 2022 we collected penalty charges at Port Botany as published by Stevedores as well as those specified by the Port Botany Landside Improvement Strategy (PBLIS) mandatory standards. PBLIS regulates penalty charges levied by stevedores at Port Botany for late arrivals and no-shows. The 2022 version of the LPCI differentiated between PBLIS and Non-PBLIS charges. The 2023 penalty index has been updated to treat PBLIS penalty charges as being equivalent to non-PBLIS penalties.

CPI

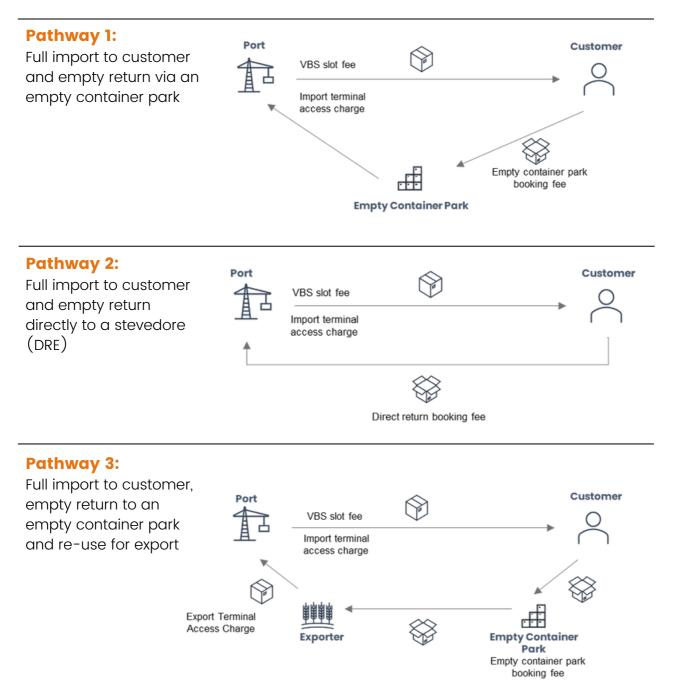
In our dashboard, we use the CPI as a reference point for increases in our indices over time, as an indicator of how these increases compare to increases in other prices in the economy. To form projections of the growth of the CPI for 2023, we have used the latest available forecasts from the Reserve Bank of Australia.

Total Annual Access Charges

This year in our insights piece, we presented an estimate of the total annual cost to landside operators of accessing Australian ports. The estimate was constructed with container throughput data from the ACCC's Stevedore Monitoring Report. Using charges collected for the LCPI and assumptions regarding container pathways, we estimated the total cost of access charges to landside parties.

The Access Charges Index Methodology.

The Access Charges Index uses a weighted average of charges levied across three different but typical container pathways (illustrated below). Data on how often a container takes a particular pathway which is the basis of the weighting is from the Bureau of Infrastructure, Transport Research Economics (BITRE) Waterline Reports. For simplicity we have assumed that 85% of empty import containers are returned to an empty container park, with 15% returned directly to a stevedore terminal. The index assumes that each individual stevedore's market share is equally divided by the number of stevedores operating in the port. Further information on assumptions is provided on the following page.



Key assumptions.

- The LCPI has been developed based on desktop research and analysis of available including information published on the websites of stevedores. Information on empty container park charges is sourced from Container Transport Alliance Australia (CTAA) and the Freight Trade Alliance (FTA). Advice was also provided by the International Forwarders and Customs Brokers Association of Australia (IFCBAA) and other contacts from industry and government. While NineSquared has used all reasonable endeavours to ensure the information in this report is as accurate as practicable, it is possible that some data is missing or incorrect.
- The base year for all indices is 2018, except for instances where none of the categorised charges are being levied in that year. In these instances, the base year is the first year that the charge has been levied in or been collected for.
- The indices focus on charges that are generally passed on to, and ultimately paid for, by cargo owners. Charges and fees that apply to other parties in the supply chain (e.g., fees associated with the management of empty containers inside empty container parks, or their return to stevedore terminals after dehire) are not included.
- Market share at all ports has been assumed to be equally distributed amongst the operating stevedores.
- Weightings for each pathway have been determined using historical throughput data at the five ports, along with an assumption on direct returns. The pathway methodology only applies to the Access Charges Index.
- It is assumed that 85% of empty import containers are returned to an empty container park, with 15% returned directly to a stevedore terminal. This assumption was informed by NineSquared research on empty containers, see NineSquared (2020) NSW Empty Container Supply Chain Study prepared for Transport for NSW. For simplicity, we have not included a pathway for import containers being unloaded and then transported directly to an exporter for reuse (triangulation).
- There is currently limited data-based evidence available for determining how often ancillary and penalty charges are applied to a container movement. For this reason, a separate index has been developed for both ancillary and penalty categories of charges. This involves calculating an index for each stevedore by comparing aggregate charges levied in each year with the base year. The individual stevedore indices are then used to calculate a mean index for each port.



Contact us.

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