

Sustainability, Energy & Carbon Management

# Greenhouse Gas Assessment

for Hall & Wilcox

Financial Year 2022



### Authored by

Morna McGuire^ & Emily Knight

### Reviewed by

Luke Huels^

## Approved by

Julien Lacave^

Document Number: v2 Date: 12 April 23

This assessment report has been prepared for Hall & Wilcox.

### **Address**

Hall & Wilcox, Level 18, 347 Kent Street Sydney 2000 NSW Australia

- \* Registered Greenhouse and Energy Auditor
- ^ Climate Active Registered Consultant

In conducting our advisory services, Pangolin Associates ("PA") complies with what it believes is currently the best practice standards - The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) and Corporate Value Chain (Scope 3) Standard, Australian/New Zealand Standard Energy Audits AS/NZS 3598, ISO 14064-1:2018, ISO 14064-3:2019, ASAE 3000 "Assurance Engagements Other Than Audits or Reviews of Historical Financial Information" and with relevant Guidelines provided by the Australian Commonwealth Government. Our services draw on information provided by the client and other sources. PA has relied on this information in making the following assessment. PA provides the services within the context of an evolving regulatory regime. While PA will use best reasonable endeavours to correctly interpret the content and meaning of relevant requirements, PA cannot warrant or guarantee that the services will always be compliant with the Guidelines. Guidelines may over time be replaced with upgraded criteria and

procedures, or varied by Government regulation, and this may affect the efficacy and utility of the service in the future. PA utilises what it considers to be the best practice methods and information available ("Methodology") to produce this report. It is necessary that the Methodology is updated over time to ensure that it remains current. PA expressly reserve the right to vary the use of the Methodology in the future and will not be liable for any different results or outcomes from the use of a different Methodology. This document and the information within it are solely for the use of the authorised recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than for which it was supplied by PA. PA makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information within it. By commissioning or using this report you acknowledge, accept and agree to the matters in this paragraph.

MMEin Bright

July miss



# **Executive Summary**

Pangolin Associates Pty Ltd (Pangolin Associates) were commissioned to conduct a comprehensive assessment of the greenhouse gas (GHG) emissions accountable to the Australian operations of Hall & Wilcox ('HW') for the Financial Year (FY) 2022.

Based on best available data, the estimated total carbon emissions for HW was 4,069.2 tonnes of carbon dioxide equivalents ( $tCO_2$ -e). This total includes indirect contributions along the supply chain (scope 3 emissions).

A comparison of the individual sector contributions to GHG emissions revealed that Professional Services was the largest contributor, at 919.9  $tCO_2$ -e (22.6% of total GHG Protocol emissions). When compared to the previous year, the emissions for electricity showed the largest change in emissions at -794.1  $tCO_2$ -e (-66.9% of the total GHG emissions).

Changes to full scope GHG emissions profile for HW over time is presented below.

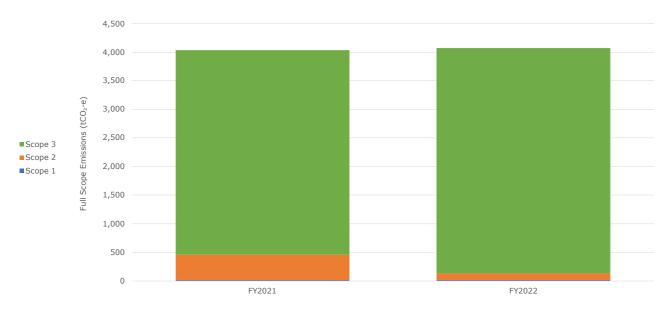


Figure I: A summary of GHG protocol emissions for HW over time.

Further comparisons of HW's GHG performance to the prior assessment is summarised below. Overall year on year (YoY) emissions changed by 32.9 tCO<sub>2</sub>-e, an increase of 0.8% over the prior year. Note that the emissions for previous years may not be directly comparable due to differences in the operational boundary over successive reporting periods.

Table I: Primary statement of GHG emissions (tCO<sub>2</sub>-e) for HW

Scope	Examples of Inclusions	FY2021	FY2022	Contribution to Total	Change on Previous Year	% Change on Previous Year	% Change on Previous Year Total
Scope 1	Direct emissions such as those resulting from fuel use or refrigerant leakage.	13.2	15.8	0.4%	2.5	19.2%	0.1%
Scope 2	Indirect energy import such as purchased electricity.	442.5	114.0	2.8%	-328.5	-74.2%	-8.1%
Scope 3	All other indirect upstream and downstream emissions resulting from activities along the value chain. Common examples include emissions associated with: the extraction, production and distribution of fuels, the transmission and distribution of electricity, base building services, business flights and other travel, staff commute to and from work, telecommunications, ICT equipment, freight, advertising and other professional services, and data services.	3,580.5	3,939.4	96.8%	358.9	10.0%	8.9%
Total		4,036.2	4,069.2	100%	32.9	0.8%	0.8%

The following Table and Figures provides a summary breakdown of GHG emissions by subunit and emissions category for HW.

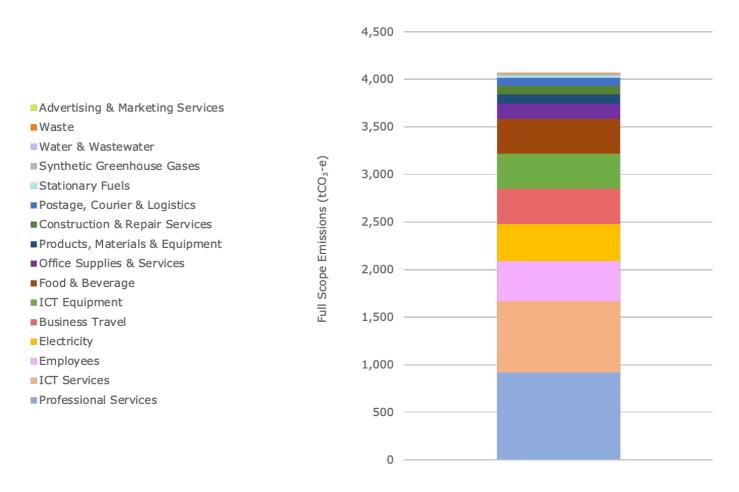


Figure II: GHG emissions for HW by emissions category



# Contact us

www.pangolinassociates.com

info@pangolinassociates.com

### **Sydney**

Gadigal Country Level 16 175 Pitt Street Sydney NSW 2000

t. +61 2 8005 6300

#### **Adelaide**

Kaurna Country Level 1 46 Magill Road Norwood SA 5067

t. +61 8 7200 1030

### Perth

Whadjuk Country Suite 28 50 St Georges Terrace Perth WA 6000

t. +61 8 9467 4094



### **Brisbane**

Turrbal Country Level 1, Suite 374 241 Adelaide Street Brisbane QLD 4000

t. +61 7 3103 2000

### Melbourne

Bunurong & Wurundjeri Country 1 Nicholson St East Melbourne VIC 3000

t. +61 3 9016 0023

