

Advanced Infrastructure  
Technology Ltd's Qualifying  
Explanatory Statement in  
support of PAS:2060 in  
association with their business  
operations



# Table of Contents

<b>Table of Contents</b>	<b>2</b>
<b><i>Introduction</i></b>	<b>3</b>
<b>Declaration</b>	<b>3</b>
<b>General Information</b>	<b>3</b>
<b>Company Information</b>	<b>4</b>
<b><i>Carbon Footprint</i></b>	<b>4</b>
<b>Emissions</b>	<b>5</b>
<b>Uncertainty</b>	<b>6</b>
<b>Comparison with Baseline</b>	<b>7</b>
<b><i>Carbon Management Plan</i></b>	<b>7</b>
<b>Reduction Targets</b>	<b>7</b>
<b>Strategy</b>	<b>7</b>
<b>Previous Reductions</b>	<b>7</b>
<b><i>Carbon Offsetting</i></b>	<b>8</b>
<b>Projects</b>	<b>8</b>
<b>Statement of Neutrality</b>	<b>9</b>
<b>Appendix</b>	<b>10</b>
<b>Uncertainty Calculation</b>	<b>10</b>
<b>Offset certificates</b>	<b>11</b>

# Introduction

## Declaration

This document presents a declaration of the standard compliant commitment to and achievement of carbon neutrality with respect to the running of the business operations of Advanced Infrastructure Technology Ltd under the guidelines of PAS 2060. This is achieved through the public disclosure of a carbon footprint calculation, a commitment to a carbon reduction strategy, and the implementation of a carbon offsetting program.

Advanced Infrastructure Technology Ltd have worked in conjunction with C Free Ltd to achieve carbon neutrality as part of an “other party” validation process from the PAS 2060 for the reporting period 1/5/21 to 30/4/22.

The carbon neutrality of all Scope 1 and Scope 2 emissions and Scope 3 emissions, as listed in this document, is achieved on 14/12/2022 as declared by C Free Ltd.

Eddie Fitzgerald-Barron | CEO | C Free Ltd

## General Information

Entity making PAS 2060 declaration	Advanced Infrastructure Technology Ltd
Period of Reporting	1/5/21 to 30/4/22
Carbon footprint over reporting period	22.58 tonnes of CO <sub>2</sub> e
Scope of emissions in claim	Scope 1,2, and 3
Conformity assessment	Other party validation
Method	Demonstrating Carbon Neutrality
Methodology	The GHG Protocol: Corporate Standard

Strategy of Carbon Reductions	Following the carbon management plan presented herein
Emissions Reductions	N/A
Carbon Offsets Purchased	23 tonnes of GSVERs
Individual responsible for provision of data demonstrating carbon neutrality	Noah Miller Solutions Lead   Advanced Infrastructure Technology Ltd
Individual responsible for "other party validation"	Adam Forster CTO   C Free Ltd

### Company Information

Advanced Infrastructure Technology Ltd produce data-driven software to aid their clients transition to low carbon power solutions. They were founded in 2020, growing as a company working for clients ranging from private companies to local authorities and building partnerships with respected universities across the UK. This carbon neutrality is only related to the running of their business operations.

### Carbon Footprint

The total gross emissions are measured in tonnes of carbon dioxide equivalent (CO<sub>2</sub>e) as per the recommendation of international standards.

The measurement is based on C Free Ltd's emissions conversions data set. All calculations are made in alignment with the neutrality guidelines, predominantly using government published and internationally recognised conversion factors from the international panel on climate change. Where other sources were required it has been flagged and justified in accordance with standard protocol. All the methods are recognised and recommended by international standards.

Emissions were calculated using Advanced Infrastructure Technology Ltd's internal accounting data, data from partners, and metered consumption. The breakdown of the carbon footprint can be accessed upon request. Where consumption figures were not available, estimates based on other proxies (e.g. spend based method, square footage) were used. All Scope 1

and 2 emissions were included and Scope 3 emissions from the following sources were also included:

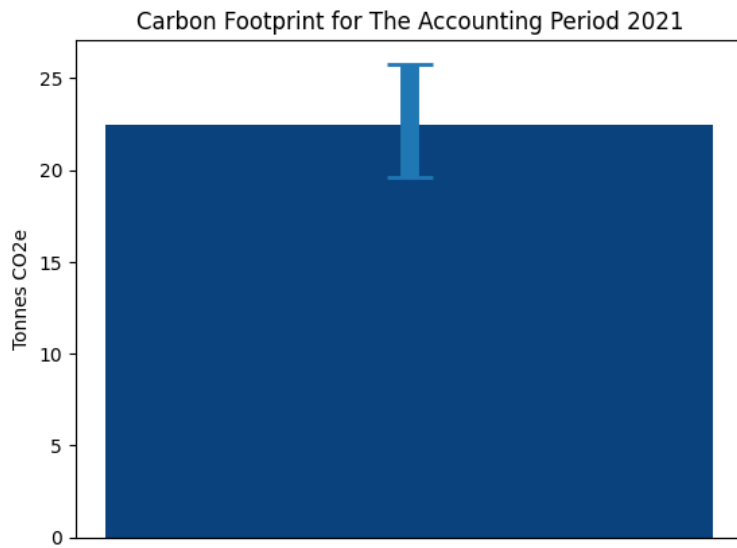
- Employee Commuting
- Travel
- Digital
- Equipment
- Expenses
- Work from Home

For Advanced Infrastructure Technology Ltd the following areas were not relevant:

- Pensions and Investments
- Franchises
- Upstream Transportation and Distribution
- Waste Generated in Operations
- Upstream Leased Assets
- Downstream Leased Assets
- Downstream Transportation and Distribution
- End of Life Treatment of Sold Products

## **Emissions**

As per the above statements and in conjunction with supporting documents, the following carbon footprints were calculated in line with the Greenhouse Gas Protocol, Corporate Accounting and Reporting Standard. The methodology employed shall minimise uncertainty and yield accurate, consistent and reproducible results.



## Scope 1

0 tonnes of CO2e

## Scope 2

0 tonnes of CO2e

## Scope 3

22.58 tonnes of CO2e

## Total

22.58 tonnes of CO2e

## Uncertainty

The use of secondary data represents a significant contribution to uncertainty in this calculation. The following actions were taken to minimise uncertainty:

1. Use of best available datasets relying on most specific data points. Although much of the calculation was based on averages, this was appropriate.
2. Modelling of activities to proxy activity monitoring could have significant error associated. However, good input data was used, and the most up to date methods and tools were applied.

As not all emissions factors and data points have uncertainties associated with them, the pedigree matrix approach was used to calculate the uncertainty. The details of said calculation are included in the appendix.

## Comparison with Baseline

N/A

# Carbon Management Plan

## Reduction Targets

In order to keep in line with the Science Based Targets and below 1.5 degrees Celsius of warming, Advanced Infrastructure Technology Ltd is committed to a reduction target of 50% of scope 1, scope 2, and scope 3 emissions from 2021 to 2030 with respect to their chosen intensity metric. Advanced Infrastructure Technology Ltd have set a target of Net Zero by 2035.

## Strategy

Advanced Infrastructure Technology Ltd will achieve this by:

- Conduct meetings online where possible to reduce unnecessary travel
- Train first approach to all travel, with no inter-EU flights by 2030.
- Reduce idle cloud computing use by 95%
- Reduce the carbon footprint of cloud instances by using only sustainable cloud providers by 2030.

Advanced Infrastructure Technology Ltd commits to this strategy, periodically assessing their performance with regard to this strategy, and implementing corrective action should it be required.

## Previous Reductions

N/A

## Carbon Offsetting

Advanced Infrastructure Technology Ltd purchased and retired 23 tonnes of Gold Standard VERS on 14/12/2022 for the reporting period of 1/5/21 to 30/4/22.

### Projects

Project ID	GS4813
Project Name	SIDRAP WIND FARM PROJECT PHASE 1
Project Type	Wind Power
Description	The Sidrap Wind Energy Project Phase 1 is located Mattirotasi and Lainungan Villages, Watang Pulu Sub-district, Sidrap Regency, South Sulawesi Province, Indonesia. The Project will have a total rated capacity of 75 MW. The power generated by the project will be supplied the public electricity grid or PLN grid via an on-site PLN owned sub-station where it will be transformed to 150 kV. The expected net annual power supply to the grid is 253,000 MWh.
Location	Indonesia
Serial Number	GS1-1-ID-GS4813-12-2020-22298-773-783
Retirement Date	14/12/2022
Volume of Credits	11
Standard	Gold Standard
Registry	GS Impact Registry
Url	<a href="https://registry.goldstandard.org/credit-blocks/details/311438">https://registry.goldstandard.org/credit-blocks/details/311438</a>

Project ID	GS905
Project Name	Sah Wind Power Plant
Project Type	Wind Power
Description	Galata Wind Enerji A.S. (GALATA) installed Sah WPP with 105 MWM/105 MWe installed capacity in Bandirma district of Balikesir and Karacabey district of Bursa, Turkey. The project WPP have 35 turbines of which 22 turbines are in Balikesir province, and 13 turbines are in Bursa province, each having an output of 3.0 MW. The total electricity production of the



	project is expected to be 341.275 MWh/year. Sah WPP has connected via a 35 km transmission line to the 154 kV Gobel Transformer Station and the generated electricity is supplied to Turkey's national electricity grid.
Location	Turkey
Serial Number	GS1-1-TR-GS905-12-2019-22197-57219-57230
Retirement Date	14/12/2022
Volume of Credits	12
Standard	Gold Standard
Registry	GS Impact Registry
Url	<a href="https://registry.goldstandard.org/credit-blocks/details/311435">https://registry.goldstandard.org/credit-blocks/details/311435</a>

## Statement of Neutrality

C Free Ltd hereby confirms that for the reporting period 1/5/21 to 30/4/22, verified carbon credits were retired on behalf of Advanced Infrastructure Technology Ltd. The retirement of these credits balances the above stated emissions thereby achieving carbon neutrality of their business operations.

Eddie Fitzgerald-Barron | CEO | C Free Ltd

Advanced Infrastructure Technology Ltd hereby confirm that, to the best of our knowledge, all information disclosed herein is true and correct and that all data provided in assistance with the associated carbon footprint calculation was an accurate portrayal of the represented activities.



Noah Miller | Solutions Lead | Advanced Infrastructure Technology Ltd

# Appendix

## Uncertainty Calculation

According to the pedigree matrix method, each parameter is assigned a geometric standard deviation (assuming log-norm distributions) with a 95% confidence interval.

$$\sigma_j^2 = e^{\sqrt{\sum [\ln(u_i)]^2}}$$

where U represent different uncertainty factors.

Then,

$$\ln(\sigma_{Total})^2 = \sum S_j^2 (\ln(\sigma_j))^2$$

where S<sub>j</sub> is the given significance of each parameter.

## Offset certificates



We are delighted to confirm the retirement of  
**11 Verified Emission Reductions (VERs)**  
for  
**C FREE LTD**  
on 14/12/2022

Retired on behalf of Advanced Infrastructure for business operations between 1/5/21 and 30/4/22 (2)

Project: Sidrap Wind Farm Project Phase 1

*These credits have been retired, saving **11 tonnes** of CO2 emissions  
from being released into the atmosphere.  
Thank you for investing in a safer climate and more sustainable world.*

**Gold Standard**

Retirement certificates are hosted on the Gold Standard Impact Registry, [view your certificate](#).

Gold Standard | Chemin de Balexert 7-9 1219 Châtelaine, International Environment House 2, Switzerland | [goldstandard.org](http://goldstandard.org), +41 22 788 70 80, [help@goldstandard.org](mailto:help@goldstandard.org)



We are delighted to confirm the retirement of  
**12 Verified Emission Reductions (VERs)**  
for  
**C FREE LTD**  
on 14/12/2022

Retired on behalf of Advanced Infrastructure for business operations between 1/5/21 and 30/4/22

Project: Sah Wind Power Plant

*These credits have been retired, saving **12 tonnes** of CO2 emissions  
from being released into the atmosphere.  
Thank you for investing in a safer climate and more sustainable world.*

**Gold Standard**

Retirement certificates are hosted on the Gold Standard Impact Registry, [view your certificate](#).

Gold Standard | Chemin de Balexert 7-9 1219 Châtelaine, International Environment House 2, Switzerland | [goldstandard.org](http://goldstandard.org), +41 22 788 70 80, [help@goldstandard.org](mailto:help@goldstandard.org)