





Opinion Statement

Product Carbon Footprint

Verification Opinion Statement

This is to verify that: West Coast Expressway Southern Region

Temporary Engineering Office Directorate General of Highways

Ministry of Transportation and Communications.

No. 29, Puzi 7th Rd. Puzi City, Chiayi County

Taiwan

交通部公路總局西部濱海公路

南區臨時工程處

臺灣

嘉義縣

朴子市

朴子七路 29 號

Holds Statement No:

PCFV 268

As a result of carrying out the verification of infrastructure life cycle greenhouse gas emissions, it is the opinion of BSI with reasonable assurance that:

The infrastructure carbon footprint of the Anshuo to Tsaopu Widening Section of Taiwan Provincial Highway No. 9 - C2 Section (台 9 線南迴公路拓寬改善後續計畫安朔草埔段工程 C2 標) is 456,773.41 tonnes of CO2 equivalent.

No material misstatements in this infrastructure life cycle greenhouse gas emission statement were

revealed.

The infrastructure life cycle GHG data quality was verified to be acceptable against the requirements of ISO 14067:2018.

This statement shall be valid for a maximum period of two years after the latest issue date on this certificate. Should there be a change in the life cycle of the product whose GHG emissions are being assessed, the validity of this opinion statement will cease.

For and on behalf of BSI:

Managing Director BSI Taiwan, Peter Pu

Originally Registration Date: 2020-12-28

Latest Revision Date: 2020-12-28

Effective Date: 2020-12-28

Expiry Date: 2022-12-27

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...making excellence a habit."



The British Standards Institution is independent to the above named client and has no financial interest in the above named client. This Opinion Statement has been prepared for the above named client only for the purposes of verifying its statements relating to its carbon emissions more particularly described in the scope. It was not prepared for any other purpose. The British Standards institution will not, in providing this Opinion Statement, accept or assume responsibility (legal or otherwise) or accept liability for or in connection with any other purpose for which it may be used or to any person by whom the Opinion Statement may be read. This Opinion Statement is prepared on the basis of review by The British Standards Institution of information presented to it by the above named client. The review does not extend beyond such information and is solely based on it. In performing such review, The British Standards Institution has assumed that all such information is complete and accurate. Any queries that may arise by virtue of this Opinion Statement or matters relating to it should be addressed to the above name client only.

Statement No:

PCFV 268

Location

朴子七路 29 號

Verification Information

West Coast Expressway Southern Reglon Temporary Engineering Office Directorate General of Highways Ministry of Transportation and Communications. No. 29, Puzi 7th Rd. Puzi City, Chiayi County Taiwan 交通部公路總局西部濱海公路南區臨時工程處臺灣

The infrastructure carbon footprint of the Anshuo to Tsaopu Widening Section of Taiwan Provincial Highway No. 9 - C2 Section (台 9 線南迴公路拓寬改善後續計畫安朔草埔段工程 C2 標) is 456,773.41 tonnes of CO₂ equivalent.

Additional information

The related information is as follows:

- System boundary for this infrastructure: Cradle to Grave
 The infrastructure system boundary is consistent with its system boundary definition in PCF report for infrastructure carbon footprint, which involves the acquisition of raw material, construction activities, material transportation and operation phase in the infrastructure life cycle.
- The data in this infrastructure life cycle greenhouse gas inventory report was from 2013-07-10 to 2020-02-17.
- The site-specific data include related construction activities from its own processes under the operational control of the organization, and partial suppliers including
 - Hung-Chains International Co. Ltd. (弘浚國際企業有限公司)
 - TUNG HO STEEL ENTERPRISE CORP.- Kaohsiung plant (東和鋼鐵高雄廠)
 - Pan Xin Industrial Co., Ltd. Taitung Factory(磐鑫台東廠)
 - Feng Tun Asphalt Co., Ltd.(豐惇瀝青股份有限公司)
- The secondary data include relative factors from public sources and LCA software SimaPro 8.5.2.

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