

## LAMPIRAN

### Lampiran 1 : Penelitian Terdahulu

|   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| 1 | Judul            | Analysis of Materiality Assessment in the Banking Industry                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Penulis          | Angel Putri, Carmel Meiden, Yosef Dema, Sugi Suhartono, Elis Sondang Dasawaty                                                                                                                                                                                                                                                                                                                                                                                                     |
|   | Tahun Terbit     | 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|   | Jurnal           | International Journal of Social Science (IJSS)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|   | Objek Penelitian | 15 Perusahaan Perbankan dari Beberapa Negara                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|   | Hasil Penelitian | Penilaian materialitas oleh industri bank sudah cukup baik, tetapi masih banyak ruang untuk perbaikan.<br>Emiten dengan penilaian yang sudah baik diharapkan dapat mempertahankan penilaiannya dan yang kurang dapat meningkatkannya.                                                                                                                                                                                                                                             |
| 2 | Judul            | Implementasi Prinsip Isi dan Kualitas pada Laporan Keberlanjutan                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   | Penulis          | Nelson, Carmel Meiden                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|   | Tahun Terbit     | 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|   | Jurnal           | JIUBJ (Jurnal Ilmiah Univesitas Batanghari Jambi) _SINTA 4                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Objek Penelitian | PT AKR Corporindo Tbk, PT Indocement Tunggal Prakarsa Tbk, PT Astra International Tbk, dan PT Unilever Indonesia Tbk.                                                                                                                                                                                                                                                                                                                                                             |
|   | Hasil Penelitian | Berdasarkan prinsip isi, secara kuantitatif pengungkapan tertinggi ada pada aspek materialitas dan secara kualitatif aspek tertinggi konteks keberlanjutan.<br>Berdasarkan prinsip kualitas, secara kuantitatif dan kualitatif pengungkapan tertinggi pada aspek kejelasan.<br>Terdapat perkembangan positif pada penyampaian laporan keberlanjutan oleh perusahaan terdaftar di BEI, walaupun hanya 12.67% dari total emiten yang merilis laporan keberlanjutan selama 2018-2020 |
| 3 | Judul            | Kualitas Climate Reporting Disclosure Perusahaan Multinasional di Dua Sektor Periode 2020-2023                                                                                                                                                                                                                                                                                                                                                                                    |
|   | Penulis          | Steven Jenius Bun Fie Hiung, Carmel Meiden                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Tahun Terbit     | 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|   | Jurnal           | Portofolio: Jurnal Ekonomi, Bisnis, Manajemen dan Akuntansi                                                                                                                                                                                                                                                                                                                                                                                                                       |
|   | Objek Penelitian | 5 Perusahaan Multinasional Sektor Perbankan dan 5 Perusahaan Multinasional Sektor Minyak dan Gas                                                                                                                                                                                                                                                                                                                                                                                  |
|   | Hasil Penelitian | Hasil analisis menyatakan kualitas climate reporting disclosure perusahaan tidak memiliki konsistensi karena skor yang didapat masih naik turun tidak teratur.<br>Kualitas climate reporting sektor perbankan lebih baik dibanding sektor industri minyak dan gas.<br>Kesimpulan penelitian menyatakan bahwa kualitas climate reporting disclosure masih tidak maksimal sebab standar masih baru dan dalam tahap pengembangan.                                                    |

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| 4 | Judul            | Climate Challenges and Financial Institutions: An Overview of the Polish Banking Sector's Practices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|   | Penulis          | Jakub Karnowski, Radosław Miśkiewicz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Tahun Terbit     | 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Jurnal           | European Research Studies Journal _H indeks 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|   | Objek Penelitian | Perusahaan Perbankan di Polandia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   | Hasil Penelitian | Rekomendasi Task Force for Climate Disclosure menekankan bahwa pengungkapan harus disusun sesuai dengan tujuh prinsip pengungkapan yang efektif, yang menguraikan standar pengungkapan minimum, Relevansi, Kekhususan dan kelengkapan, Kejelasan dan keseimbangan, Keterbandingan antar periode pelaporan, Keterbandingan dengan pengungkapan entitas lain, Keandalan, objektivitas, dapat diverifikasi, Keberlanjutan (cyclicalitv)                                                                                                                                                                                                                                        |
| 5 | Judul            | Climate Change and Global Warming Discourses and Disclosures in the Corporate Annual Reports: A Study on the Malaysian Companies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   | Penulis          | Nik Nazli Nik Ahmad, Dewan Mahboob Hossain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   | Tahun Terbit     | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Jurnal           | Procedia - Social and Behavioral Sciences H-indeks 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|   | Objek Penelitian | 79 Perusahaan Malaysia yang Mengungkapkan Isu Global Warming                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|   | Hasil Penelitian | Penelitian ini menunjukkan bahwa meskipun pengungkapan perubahan iklim tidak wajib (voluntary) bagi perusahaan-perusahaan Malaysia, tetapi mereka telah mengungkapkan beberapa masalah ini.<br>Namun, pengungkapannya masih dalam tahap pengenalan saja.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 6 | Judul            | Climate change skills for the new CFOs. A preliminary analysis on TCFD by Italian Listed Companies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|   | Penulis          | Paola Vola, Lorenzo Gelmini                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|   | Tahun Terbit     | 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Jurnal           | Journal of Management Control _H-indeks 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   | Objek Penelitian | Perusahaan Listed di Italia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|   | Hasil Penelitian | Penelitian ini menganalisis persyaratan pelaporan yang disediakan oleh TCFD untuk pengungkapan sukarela tentang perubahan iklim yang harus ditangani oleh CFO saat ini.<br>Semakin pentingnya pengungkapan terkait keberlanjutan dan iklim, CFO perlu menerapkan integrasi antara pelaporan keuangan dan keberlanjutan; proses ini menjadi penting untuk menjamin kredibilitas perusahaan terhadap para pemangku kepentingan secara umum, juga mengingat peringkat kredit dipengaruhi oleh faktor keberlanjutan. Terkait dengan kompetensi dan keterampilan CFO, penting untuk memperhatikan kemampuan untuk bekerja sama dengan para ahli ilmiah dalam memadukan informasi |

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|   |                  | keuangan dan non-keuangan; yang difokuskan pada apa yang disebut sebagai "soft skills" untuk CFO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7 | Judul            | Adoption and Determinants of Task Force on Climate-related Financial Disclosures (TCFD) Reporting Frameworks by Australian Stock Exchange (ASX) Listed Companies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|   | Penulis          | Ranajit Kumar Bairagi, Protap Kumar Ghosh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|   | Tahun Terbit     | 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|   | Jurnal           | Indian Journal of Applied Economics and Business                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|   | Objek Penelitian | 34 Perusahaan yang Listed di Australian Stock Exchange (ASX)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|   | Hasil Penelitian | Temuan penelitian ini menyatakan bahwa niat entitas pelapor - intergrated reporting dengan annual report dan separate reporting sebagai sustainability reporting, memainkan peran penting dalam mengadopsi dan mengungkapkan kerangka kerja pelaporan TCFD. Secara lebih spesifik, 70% dari perusahaan pendukung mengikuti strategi separate reporting dan mengungkapkan lebih banyak risiko keuangan terkait iklim dibandingkan perusahaan lainnya.                                                                                                                                                                                                                         |
| 8 | Judul            | Climate reporting quality following the recommendations of the task force on climate-related financial disclosures: A Focus on the German capital market                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|   | Penulis          | Annabelle Braasch, Patrick Velte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|   | Tahun Terbit     | 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|   | Jurnal           | Wiley Journal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|   | Objek Penelitian | Perusahaan Listed DAX30 di Jerman                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   | Hasil Penelitian | Hasil penelitian menunjukkan bahwa masih ada ruang yang cukup besar untuk perbaikan di antara perusahaan-perusahaan yang sensitif terhadap karbon maupun yang kurang sensitif terhadap karbon. Secara khusus, perusahaan-perusahaan tersebut menunjukkan tingkat pelaporan yang buruk dalam domain tata kelola perusahaan, yang mengindikasikan bahwa mereka menggunakan pelaporan iklim secara simbolis untuk menampilkan diri mereka dalam sudut pandang yang menguntungkan dan untuk mendapatkan legitimasi di masyarakat. Selain itu, perusahaan yang sensitif terhadap karbon lebih cenderung melaporkan informasi yang relevan secara strategis terkait masalah iklim. |

## Lampiran 2 : Objek Penelitian

| No. | Nama Perusahaan                | Sumber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Nippon Steel Corp.             | <a href="https://www.nipponsteel.com/en/csr/report/pdf/report2022en.pdf">https://www.nipponsteel.com/en/csr/report/pdf/report2022en.pdf</a><br><a href="https://www.nipponsteel.com/common/secure/en/csr/report/nsc/pdf/report2021.pdf">https://www.nipponsteel.com/common/secure/en/csr/report/nsc/pdf/report2021.pdf</a><br><a href="https://www.nipponsteel.com/common/secure/en/csr/report/nsc/pdf/report2020.pdf">https://www.nipponsteel.com/common/secure/en/csr/report/nsc/pdf/report2020.pdf</a>                                                                                                                                                                                                                                                                                                                                                                           |
| 2   | JFE Holdings, Inc              | <a href="https://www.jfe-holdings.co.jp/en/csr/pdf/csr2022e.pdf">https://www.jfe-holdings.co.jp/en/csr/pdf/csr2022e.pdf</a><br><a href="https://www.jfe-holdings.co.jp/en/csr/pdf/csr2021e.pdf">https://www.jfe-holdings.co.jp/en/csr/pdf/csr2021e.pdf</a><br><a href="https://www.jfe-holdings.co.jp/en/csr/pdf/csr2020e.pdf">https://www.jfe-holdings.co.jp/en/csr/pdf/csr2020e.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3   | Kobe Steel Ltd                 | <a href="https://www.kobelco.co.jp/english/about_kobelco/outline/integrated-reports/2022/index.html">https://www.kobelco.co.jp/english/about_kobelco/outline/integrated-reports/2022/index.html</a><br><a href="https://www.kobelco.co.jp/english/about_kobelco/outline/integrated-reports/2021/index.html">https://www.kobelco.co.jp/english/about_kobelco/outline/integrated-reports/2021/index.html</a><br><a href="https://www.kobelco.co.jp/english/about_kobelco/outline/integrated-reports/2020/index.html">https://www.kobelco.co.jp/english/about_kobelco/outline/integrated-reports/2020/index.html</a>                                                                                                                                                                                                                                                                   |
| 4   | Mitsubishi UFJ Financial Group | <a href="https://www.mufig.jp/dam/csr/report/2022/sr2022_en.pdf">https://www.mufig.jp/dam/csr/report/2022/sr2022_en.pdf</a><br><a href="https://www.mufig.jp/dam/csr/report/2021/en_all.pdf">https://www.mufig.jp/dam/csr/report/2021/en_all.pdf</a><br><a href="https://www.mufig.jp/dam/csr/report/2020/en_all.pdf">https://www.mufig.jp/dam/csr/report/2020/en_all.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5   | Japan Post Bank                | <a href="https://www.jp-bank.japanpost.jp/en/sustainability/report/pdf/sustainability_report-en-2022-P00.pdf">https://www.jp-bank.japanpost.jp/en/sustainability/report/pdf/sustainability_report-en-2022-P00.pdf</a><br><a href="https://www.jp-bank.japanpost.jp/en/sustainability/report/backnumber/pdf/sustainability_report-en-2021.pdf">https://www.jp-bank.japanpost.jp/en/sustainability/report/backnumber/pdf/sustainability_report-en-2021.pdf</a><br><a href="https://www.jp-bank.japanpost.jp/en/sustainability/report/backnumber/pdf/en_csr_report2020.pdf">https://www.jp-bank.japanpost.jp/en/sustainability/report/backnumber/pdf/en_csr_report2020.pdf</a>                                                                                                                                                                                                         |
| 6   | Mizuho Financial Group         | <a href="https://www.mizuhogroup.com/binaries/content/assets/pdf/mizuho_global/sustainability/overview/report/tcfd_report_2022.pdf">https://www.mizuhogroup.com/binaries/content/assets/pdf/mizuho_global/sustainability/overview/report/tcfd_report_2022.pdf</a><br><a href="https://www.mizuhogroup.com/binaries/content/assets/pdf/mizuho_global/sustainability/overview/report/tcfd_report_2021.pdf">https://www.mizuhogroup.com/binaries/content/assets/pdf/mizuho_global/sustainability/overview/report/tcfd_report_2021.pdf</a><br><a href="https://www.mizuhogroup.com/binaries/content/assets/pdf/mizuho_global/sustainability/overview/report/tcfd_report.pdf">https://www.mizuhogroup.com/binaries/content/assets/pdf/mizuho_global/sustainability/overview/report/tcfd_report.pdf</a>                                                                                   |
| 7   | Anglo American PLC             | <a href="https://www.angloamerican.com/~media/Files/A/Anglo-American-Group-v5/PLC/investors/annual-reporting/2022/aa-annual-report-full-2022.pdf">https://www.angloamerican.com/~media/Files/A/Anglo-American-Group-v5/PLC/investors/annual-reporting/2022/aa-annual-report-full-2022.pdf</a><br><a href="https://www.angloamerican.com/~media/Files/A/Anglo-American-Group/PLC/investors/annual-reporting/2022/aa-annual-report-full-2021.pdf">https://www.angloamerican.com/~media/Files/A/Anglo-American-Group/PLC/investors/annual-reporting/2022/aa-annual-report-full-2021.pdf</a><br><a href="https://www.angloamerican.com/~media/Files/A/Anglo-American-Group/PLC/investors/annual-reporting/2021/aa-annual-report-full-2020.pdf">https://www.angloamerican.com/~media/Files/A/Anglo-American-Group/PLC/investors/annual-reporting/2021/aa-annual-report-full-2020.pdf</a> |
| 8   | Endeavour Mining PLC           | <a href="https://www.endeavourmining.com/sites/endeavour-mining-v2/files/2023-05/Sustainability%20Report/2022%20Endeavour%20Sustainability%20Report_website.pdf">https://www.endeavourmining.com/sites/endeavour-mining-v2/files/2023-05/Sustainability%20Report/2022%20Endeavour%20Sustainability%20Report_website.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|    |                          | <a href="https://www.endeavourmining.com/sites/endeavour-mining-v2/files/ESG/2021%20Sustainability%20Report/2021%20Endeavour%20Sustainability%20Report_Interactive_web.pdf">https://www.endeavourmining.com/sites/endeavour-mining-v2/files/ESG/2021%20Sustainability%20Report/2021%20Endeavour%20Sustainability%20Report_Interactive_web.pdf</a><br><a href="https://www.endeavourmining.com/sites/endeavour-mining-v2/files/endeavour-mining/media/reports-and-fact-sheets/endeavour-sustainability-report-2020.pdf">https://www.endeavourmining.com/sites/endeavour-mining-v2/files/endeavour-mining/media/reports-and-fact-sheets/endeavour-sustainability-report-2020.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9  | Rio Tinto                | <a href="https://www.riotinto.com/en/invest/reports/climate-change-report">https://www.riotinto.com/en/invest/reports/climate-change-report</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10 | Barclays                 | <a href="https://home.barclays/content/dam/home-barclays/documents/citizenship/Sustainability/Barclays-Climate-Strategy-Targets-and-Progress-2022-Final.pdf">https://home.barclays/content/dam/home-barclays/documents/citizenship/Sustainability/Barclays-Climate-Strategy-Targets-and-Progress-2022-Final.pdf</a><br><a href="https://home.barclays/content/dam/home-barclays/documents/investor-relations/reports-and-events/annual-reports/2021/Barclays-TCFD-Report-2021.pdf">https://home.barclays/content/dam/home-barclays/documents/investor-relations/reports-and-events/annual-reports/2021/Barclays-TCFD-Report-2021.pdf</a><br><a href="https://home.barclays/content/dam/home-barclays/documents/investor-relations/reports-and-events/annual-reports/2020/Barclays-TCFD-Report-2020.pdf">https://home.barclays/content/dam/home-barclays/documents/investor-relations/reports-and-events/annual-reports/2020/Barclays-TCFD-Report-2020.pdf</a>                                                                                                                                                                                                                                                                                                                              |
| 11 | NatWest Group            | <a href="https://home.barclays/content/dam/home-barclays/documents/investor-relations/reports-and-events/annual-reports/2022/AR/Barclays-PLC-Annual-Report-2022.pdf">https://home.barclays/content/dam/home-barclays/documents/investor-relations/reports-and-events/annual-reports/2022/AR/Barclays-PLC-Annual-Report-2022.pdf</a><br><a href="https://investors.natwestgroup.com/~media/Files/R/RBS-IR-V2/results-center/18022022/2021-climate-related-disclosure-report.pdf">https://investors.natwestgroup.com/~media/Files/R/RBS-IR-V2/results-center/18022022/2021-climate-related-disclosure-report.pdf</a><br><a href="https://investors.natwestgroup.com/~media/Files/R/RBS-IR-V2/results-center/19022021/2020-climate-related-disclosure-report.pdf">https://investors.natwestgroup.com/~media/Files/R/RBS-IR-V2/results-center/19022021/2020-climate-related-disclosure-report.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                          |
| 12 | Lloyds Banking Group     | <a href="https://www.lloydsbankinggroup.com/assets/pdfs/investors/financial-performance/lloyds-banking-group-plc/2022/full-year/2022-lbg-environmental-sustainability-report.pdf">https://www.lloydsbankinggroup.com/assets/pdfs/investors/financial-performance/lloyds-banking-group-plc/2022/full-year/2022-lbg-environmental-sustainability-report.pdf</a><br><a href="https://www.lloydsbankinggroup.com/assets/pdfs/who-we-are/responsible-business/downloads/2021-reporting/lbg-esg-report-2021-interactive-final.pdf">https://www.lloydsbankinggroup.com/assets/pdfs/who-we-are/responsible-business/downloads/2021-reporting/lbg-esg-report-2021-interactive-final.pdf</a><br><a href="https://www.lloydsbankinggroup.com/assets/pdfs/investors/financial-performance/lloyds-banking-group-plc/2021/q4/2021-lbg-climate-report.pdf">https://www.lloydsbankinggroup.com/assets/pdfs/investors/financial-performance/lloyds-banking-group-plc/2021/q4/2021-lbg-climate-report.pdf</a><br><a href="https://www.lloydsbankinggroup.com/assets/pdfs/who-we-are/responsible-business/downloads/2020-reporting/lbg-esg-interactive-210223.pdf">https://www.lloydsbankinggroup.com/assets/pdfs/who-we-are/responsible-business/downloads/2020-reporting/lbg-esg-interactive-210223.pdf</a> |
| 13 | African Rainbow Minerals | <a href="https://arm.co.za/wp-content/uploads/2022/10/2022-Climate-Change-and-Water-Report-1.pdf">https://arm.co.za/wp-content/uploads/2022/10/2022-Climate-Change-and-Water-Report-1.pdf</a><br><a href="https://arm.co.za/wp-content/uploads/2021/11/ARM-Climate-and-Water-2021-FINAL..pdf">https://arm.co.za/wp-content/uploads/2021/11/ARM-Climate-and-Water-2021-FINAL..pdf</a><br><a href="https://arm.co.za/wp-content/uploads/2020/11/ARM_Climate-and-Water-Supplementary-Report-2020.pdf">https://arm.co.za/wp-content/uploads/2020/11/ARM_Climate-and-Water-Supplementary-Report-2020.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 14 | Exxaro Resources         | <a href="https://investor.exxaro.com/integrated-reports2022/pdf/exxaro-ir-2022.pdf">https://investor.exxaro.com/integrated-reports2022/pdf/exxaro-ir-2022.pdf</a><br><a href="https://investor.exxaro.com/integrated-reports2021/pdf/exxaro-ir-2021.pdf">https://investor.exxaro.com/integrated-reports2021/pdf/exxaro-ir-2021.pdf</a><br><a href="https://exxaro-reports.co.za/reports/integrated-reports2020/pdf/exxaro-ir-2020-lores.pdf">https://exxaro-reports.co.za/reports/integrated-reports2020/pdf/exxaro-ir-2020-lores.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|----|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | Gold Fields         | <a href="https://www.goldfields.com/pdf/investors/integrated-annual-reports/2022/ccr-2022-report.pdf">https://www.goldfields.com/pdf/investors/integrated-annual-reports/2022/ccr-2022-report.pdf</a><br><a href="https://www.goldfields.com/pdf/investors/integrated-annual-reports/2021/gold-fields-tcf-report-2021.pdf">https://www.goldfields.com/pdf/investors/integrated-annual-reports/2021/gold-fields-tcf-report-2021.pdf</a><br><a href="https://www.goldfields.com/pdf/investors/integrated-annual-reports/2020/tcf-report-2020-gold-fields.pdf">https://www.goldfields.com/pdf/investors/integrated-annual-reports/2020/tcf-report-2020-gold-fields.pdf</a>                       |
| 16 | Standard Bank Group | <a href="https://thevault.exchange/?get_group_doc=18/1684403101-SBG2022Climate-relatedFinancialDisclosuresReport.pdf">https://thevault.exchange/?get_group_doc=18/1684403101-SBG2022Climate-relatedFinancialDisclosuresReport.pdf</a><br><a href="https://www.standardbank.com/static_file/StandardBankGroup/financialdownloads/RTS/ClimateRelatedFinancialDisclosures2021.pdf">https://www.standardbank.com/static_file/StandardBankGroup/financialdownloads/RTS/ClimateRelatedFinancialDisclosures2021.pdf</a><br><a href="https://thevault.exchange/?get_group_doc=18/1623759414-SBGESGReport2020FN.pdf">https://thevault.exchange/?get_group_doc=18/1623759414-SBGESGReport2020FN.pdf</a> |
| 17 | FirstRand           | <a href="https://www.firstrand.co.za/media/investors/annual-reporting/firststrand-tcf-report-2022.pdf">https://www.firstrand.co.za/media/investors/annual-reporting/firststrand-tcf-report-2022.pdf</a><br><a href="https://www.firstrand.co.za/media/investors/annual-reporting/FirstRand-TCFD-report-2021.pdf">https://www.firstrand.co.za/media/investors/annual-reporting/FirstRand-TCFD-report-2021.pdf</a><br><a href="https://www.firstrand.co.za/media/investors/annual-reporting/firststrand-annual-integrated-report-2020.pdf">https://www.firstrand.co.za/media/investors/annual-reporting/firststrand-annual-integrated-report-2020.pdf</a>                                       |
| 18 | ABSA Group          | <a href="https://www.absa.africa/wp-content/uploads/2023/05/2022-Absa-Group-Limited-TCFD-Report-final.pdf">https://www.absa.africa/wp-content/uploads/2023/05/2022-Absa-Group-Limited-TCFD-Report-final.pdf</a><br><a href="https://www.absa.africa/wp-content/uploads/2022/09/2021-Absa-Group-Limited-TCFD.pdf">https://www.absa.africa/wp-content/uploads/2022/09/2021-Absa-Group-Limited-TCFD.pdf</a><br><a href="https://www.absa.africa/wp-content/uploads/2022/09/task-force-on-climate-related-financial-disclosures-report.pdf">https://www.absa.africa/wp-content/uploads/2022/09/task-force-on-climate-related-financial-disclosures-report.pdf</a>                                 |

### Lampiran 3 : Standard Laporan Setiap Perusahaan

| No | Sektor       | Negara         | Nama Perusahaan          | Tahun                  | Pedoman   | Sumber                |                |             |            |                   |   |  |
|----|--------------|----------------|--------------------------|------------------------|-----------|-----------------------|----------------|-------------|------------|-------------------|---|--|
|    |              |                |                          |                        |           | Sustainability Report | Climate Report | TCFD Report | CSR Report | Integrated Report |   |  |
| 1  | Metal-Mining | Japan          | Nippon Steel Corp.       | 2022                   | GRI, TCFD | ✓                     |                |             |            |                   |   |  |
|    |              |                |                          | 2021                   |           | ✓                     |                |             |            |                   |   |  |
|    |              |                |                          | 2020                   |           | ✓                     |                |             |            |                   |   |  |
| 2  |              |                |                          | JFE Holdings, Inc      | 2022      | GRI, TCFD             |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            | ✓                 |   |  |
| 3  |              |                |                          | Kobe Steel Ltd         | 2022      | GRI, TCFD             |                |             |            |                   | ✓ |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            |                   | ✓ |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            |                   | ✓ |  |
| 4  | Banks        |                |                          | MUFG Bank              | 2022      | GRI, TCFD             | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        | 2021      |                       | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        | 2020      |                       | ✓              |             |            |                   |   |  |
| 5  |              |                |                          | Japan Post Bank        | 2022      | GRI, TCFD             |                |             | ✓          |                   |   |  |
|    |              |                |                          |                        | 2021      |                       | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            | ✓                 |   |  |
| 6  |              |                |                          | Mizuho Financial Group | 2022      | TCFD                  |                |             | ✓          |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            | ✓                 |   |  |
| 7  | Metal-Mining | United Kingdom | Anglo American Plc (AAL) | 2022                   | TCFD      |                       | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        |           | 2021                  |                | ✓           |            |                   |   |  |
|    |              |                |                          |                        |           | 2020                  |                |             |            |                   | ✓ |  |
| 8  |              |                |                          | Endeavour Mining PLC   | 2022      | GRI, TCFD             | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        | 2021      |                       | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        | 2020      |                       | ✓              |             |            |                   |   |  |
| 9  |              |                |                          | Rio Tinto              | 2022      | TCFD                  |                | ✓           |            |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                | ✓           |            |                   |   |  |
|    |              |                |                          |                        | 2020      |                       |                | ✓           |            |                   |   |  |
| 10 | Banks        |                |                          | Bardays                | 2022      | TCFD                  |                |             | ✓          |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            | ✓                 |   |  |
| 11 |              |                |                          | NatWest Group          | 2022      | TCFD                  |                |             | ✓          |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            | ✓                 |   |  |
| 12 |              |                |                          | Lloyds Banking Group   | 2022      | GRI, TCFD             | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                | ✓           |            |                   |   |  |
|    |              |                |                          |                        | 2020      |                       |                | ✓           |            |                   |   |  |
| 13 | Metal-Mining | South Africa   | African Rainbow Minerals | 2022                   | GRI, TCFD |                       | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        |           | 2021                  |                | ✓           |            |                   |   |  |
|    |              |                |                          |                        |           | 2020                  |                | ✓           |            |                   |   |  |
| 14 |              |                |                          | Exxaro Resources       | 2022      | GRI, TCFD             | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        | 2021      |                       | ✓              |             |            |                   |   |  |
|    |              |                |                          |                        | 2020      |                       |                | ✓           |            |                   |   |  |
| 15 |              |                |                          | Gold Fields            | 2022      | TCFD                  |                |             | ✓          |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            | ✓                 |   |  |
| 16 | Banks        |                |                          | Standard Bank Group    | 2022      | TCFD                  |                |             | ✓          |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2020      |                       |                | ✓           |            |                   |   |  |
| 17 |              |                |                          | FirstRand              | 2022      | GRI, TCFD             |                |             | ✓          |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            | ✓                 |   |  |
| 18 |              |                |                          | ABSA Group             | 2022      | GRI, TCFD             |                |             | ✓          |                   |   |  |
|    |              |                |                          |                        | 2021      |                       |                |             |            | ✓                 |   |  |
|    |              |                |                          |                        | 2020      |                       |                |             |            | ✓                 |   |  |

## Lampiran 4 : Hasil Snipping TCFD Report 2021 NatWest Group

| 1. Governance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <p>Board monitoring and oversight of climate-related risks and opportunities is supported by establishing clear roles and responsibilities for the Board and Board Committees, as well as robust management reporting on climate strategy, ambition and risk management activities.</p> <p>Details of Board and Board Committee activities relating to climate are noted below and in the Corporate Governance section of the 2021 NatWest Group plc Annual Report and Accounts. At a subsidiary level, the boards of NatWest Group's principal and material subsidiaries exercised oversight of key climate-related risks and opportunities through risk reporting and management updates.</p> <p><b>Board considered climate-related matters at all its scheduled meetings in 2021</b></p> <p>The Board received updates from the NatWest Group CEO, Group CFO, Group CRO and other senior executives on climate-related risk and opportunities impacting NatWest Group, our customers and key strategic partnerships.</p> <p>The Board examined the results of climate stress testing and scenario analysis, for shorter and longer time horizons and reviewed risk appetite updates. The outcome led to the Board approval of the first CBES submission to the PRA.</p> <p>The Climate strategy spotlight appraise explains how climate featured within the Board's annual strategy session. A Board Business Insights Pack was received in advance of every Board meeting, giving directors a snapshot of NatWest Group's progress against our climate ambition. Committee Chairs also provided the Board with an overview of relevant climate issues which were discussed at Committee meetings.</p> <p>The Board members also participated in the annual climate training, more details in the Board training spotlight appraise.</p> <p>Key decisions approved by the Board during 2021 include:</p> <ul style="list-style-type: none"> <li>February 2021 ESG Supplement and Climate-related Disclosures Report approval.</li> <li>April: NatWest Group's climate risk appetite qualitative statement.</li> <li>September: First CBES submission.</li> <li>October: 2021 Green Climate and Sustainable Funding and Financing target.</li> <li>October &amp; December: Considered the merits and challenges of submitting a resolution related to the Group's climate ambitions at the 2022 AGM.</li> <li>December: Approved climate risk appetite measures led to action 42 for detail) and considered the first carbon plan as part of the overall 2022 Budget.</li> </ul> <p><b>Climate strategy</b></p> <p>Climate matters featured in the Board's annual strategy discussions in June 2021. Directors were invited to consider various purpose 'conundrums': real life dilemmas that could arise as NatWest Group seeks to balance our purpose priorities with commercial reality. For example, one discussion group reflected on how we could best support the UK economy in its recovery while transforming our loan portfolio to meet climate ambitions. These discussions were followed by an opportunity to share feedback with the Executive team and explore potential challenges.</p> <p><b>Board training</b></p> <p>The annual Board climate training session in October helped to enhance directors' climate-related knowledge. This was a comprehensive training session where representatives from executive management were joined by NatWest Group's independent climate adviser, Lord Stern of Brentford, the Chair of the Grantham Research Institute on Climate Change and the Environment. Areas of focus included recent key external developments and their impact on NatWest Group, including evolving regulatory and investor expectations, as well as rising external expectations relating to the banking sector as a whole. Directors also discussed expectations for COP26 from a policy, business, and banking perspective.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>1a. Gambaran Dewan</p> <p>Kuantitatif: 5<br/>Kualitatif: 1<br/>Halaman: 14</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>Climate governance at management level begins with NatWest Group CEO and NatWest Group CRO, who share joint accountability under the Senior Managers and Certification Regime for identifying and managing the financial risk of climate change.</p> <ul style="list-style-type: none"> <li>NatWest Group CRO is responsible for ensuring that the financial risks from climate change are reflected in risk management frameworks and, in line with our three lines of defence model, the Risk function provides effective independent oversight of the first line of defence.</li> <li>NatWest Group CEO's responsibility for strategic delivery is delegated to the following in her Executive team: NatWest Group CFO, NatWest Group CAO, NatWest Group Director (Strategy &amp; Measures) and the Business CEOs.</li> <li>Each has shared responsibility for strategic delivery relating to financial risks and opportunities that arise from climate change ensuring that NatWest Group identifies, measures, monitors, manages and reports on opportunities as well as exposures to risks.</li> </ul> <p>The executive level committees shown in section 2.1 provide support to the executive team. This includes leadership teams and non-executive groups who provide insight, expertise and additional controls where needed.</p> <p>Under our integrated governance structure, business areas are expected to ensure that climate considerations are built into day-to-day operational decision-making. The Accountable Executives are empowered to take decisions within their areas of accountability and responsibility, with clear escalation and reporting routes to place in their Climate Change Executive Steering Group, see spotlight appraise. Headlined by their accountable Executives, climate leads within each business area and function are responsible for sponsoring and leading climate-related activity within their areas.</p> <p>Work is ongoing to integrate climate risk into business level policies and frameworks, which in turn will enable climate risk to be effectively managed in the same way as other risk types. This work is led by a dedicated climate risk team, which was established in 2021 to discharge second line of defence accountability of risk oversight and act as a consolidated centre of excellence on climate risk.</p> <p>Several cross-bank climate-related forums provide collaboration and continue to play an important role in our climate governance structure. These include a climate lead group of executive delegates and a Climate Opportunities Group, which drives a One Bank approach to strategic progress.</p> <p>The Own Operations Executive Steering Group are responsible for delivery of the climate purpose commitments and the 2025 – 2050 targets for our operational value chain.</p> <p>The Climate Centre of Excellence was created in 2021 to support the implementation of our climate ambition. The team has in-depth knowledge of climate change that complements capabilities that sit in the rest of the organisation. The Climate Centre of Excellence adds value by providing climate leadership to support NatWest Group and our customers. The Climate Centre of Excellence works with franchisees, functions and external stakeholders, promoting collaboration and driving ambition.</p> <p><b>Executive level governance</b></p> <p>Group Executive Committee/Group CEO and Accountable Executives<br/>Oversight accountability for delivery of sustainable business performance including identifying and managing financial risks from climate change</p> <p>Executive Risk Committee<br/>Chaired by the Group CEO, reviews and challenges climate risk exposure, including operational, reputational and climate risk</p> <p>Executive Decision Committee<br/>Chaired by the Group CEO, reviews all significant business decisions/ESG matters with the support of a UK/US Business Steering Group</p> <p>Climate Change Executive Steering Group<br/>Chaired by the Group CEO and Group CRO, responsible for delivery and implementation of strategic climate ambition</p> <p>Group Reputational Risk Committee<br/>Chaired by the Group CEO, reviews and challenges ESG-related reputational risk, policies and material responses, including significant climate issues</p> <p><b>Franchise, Functional and Legal Entity Executive &amp; Risk Committees</b><br/>Support the Executive in discharging their relevant areas of responsibility, including in reducing climate change within each area</p> <p><b>Business, services and functional governance</b></p> <p>Franchise, Functional and Legal Entity Executive Climate Leads<br/>Members of their accountable Executives, the group is responsible for sponsoring and leading climate-related activity within their area. Examples of shared and collaborative groups in support to look out for shared accountable functions are shown below</p> <p>Retail Banking<br/>Retail Climate Steering Group</p> <p>Commercial Banking<br/>Commercial Climate Steering Group</p> <p>Private Banking<br/>Private Climate Change Working Group</p> <p>BBG International<br/>BBG Environmental, Social and Governance Steering Group</p> <p>Own Operations<br/>Strong Bank action through the committed area chair</p> <p>NatWest Markets<br/>M&amp;A Climate &amp; Sustainability Committee</p> <p><b>Climate Centre of Excellence</b><br/>Provides guidance, expertise and advisory support to business areas, including where there are specific capability gaps</p> <p><b>Cross-bank Climate Working Groups</b><br/>Play an important role in supporting One Bank collaboration across business areas, functions and legal entities</p> | <p>1b. Peran Manajemen</p> <p>Kuantitatif: 5<br/>Kualitatif: 4<br/>Halaman: 13, 17</p> <p><b>Steering the climate agenda</b></p> <p>The Climate Change Executive Steering Group, chaired by the Group CEO and CRO during 2021, is the primary management forum responsible for overseeing climate and progress relating to NatWest Group's climate-related commitments. During 2021, the Steering Group focused on the Group Climate Change Programme, which was linked with modelling and monitoring new financial assets as determining the climate-related mandatory change agenda. This included overseeing progress on meeting the expectations set out in the PRA's Supervisory Statement SS3/21.</p> <p>Key areas of focus for the group in 2021 included delivery against climate-related regulatory expectations, shaping NatWest Group's climate change strategy, including future opportunities as well as risks and overseeing the design of NatWest Group's climate change operating and reporting model.</p> <p>The Programme came to an end in December 2021. The management governance model will therefore shift from a programme-led approach to a framework embedded within our existing accountability structures. This will support the full integration of climate risk within our businesses and functions, while sharpening the Steering Group's focus.</p> <p>The Steering Group was refreshed in January 2022 to drive strategic implementation and delivery. To support this shift, the Director of Strategy and Corporate Development has taken the Chair role. The Group CEO and Group CRO remain key members of the Steering Group given their shared accountabilities. Membership has also been extended to include two senior executive team who have climate-related responsibilities designed from the Group CEO.</p> |
| 2. Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Opportunity                                                 | Related Net Zero Goal                                                                                                                                                                                                                                                                                                                                                                                                                  | Expected time horizon | Potential impacts on Net Zero Goal                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accelerating the speed of transitioning to net zero economy | <p>We have an ambition to support our U.S. mortgage customers to increase their residential energy efficiency and encourage purchasing of the most energy-efficient homes, with an ambition that 50% of our mortgage loans will be U.S. green mortgages by 2025.</p> <p>We plan to collaborate across industry and create products and services to enable customers to achieve their net zero on decarbonization measures by 2050.</p> | Medium                | <ul style="list-style-type: none"> <li>Increased balance sheet volume through demand for new products and services that support decarbonization</li> <li>Reduced balance sheet volume related to lower energy efficiency loans</li> <li>Additional opportunities to develop new products</li> <li>Decreased a minimum due to customer transition</li> </ul> |
| Helping to end the most harmful activity                    | <p>We will align our carbon intensity of key funds and discretionary portfolios by 50% by 2030 and to achieve net zero on decarbonization measures by 2050.</p> <p>We plan to phase out of our UK and non-UK companies who have UK and production, coal generation and coal related refineries by 1 October 2023, with a full global phase out by 1 January 2025.</p>                                                                  | Short-Medium          | Reduced exposure to coal customers.                                                                                                                                                                                                                                                                                                                         |
| Championing climate solutions                               | We have the target to provide £200 billion Climate and Sustainable Funding and Financing between 1 July 2021 and the end of 2025.                                                                                                                                                                                                                                                                                                      | Short                 | Increases in Climate and Sustainable Funding and Financing, and on/off balance sheet.                                                                                                                                                                                                                                                                       |
| Embedding climate into our culture and decision-making      | We have an ambition to be best below the climate impact of our financing activity by 2030 and align with the 2015 Paris Agreement. To do this, we plan to quantify our climate impact and set sector-specific targets for the end of 2023.                                                                                                                                                                                             | Medium                | Reduction in the climate impact of loans and investments                                                                                                                                                                                                                                                                                                    |
| Net zero emissions for our operational value chain          | <p>We have a target to reduce our direct operations carbon footprint by 50% by 2025, against a 2019 baseline.</p> <p>We plan to reduce the carbon footprint for our under-superordinated value chain by 50% against a 2019 baseline, by 2030 and against a 2015 baseline.</p>                                                                                                                                                          | Short                 | Increased opportunities to support reduction in carbon footprint on our own operations.                                                                                                                                                                                                                                                                     |
|                                                             | We plan to reduce the carbon footprint for our under-superordinated value chain by 50% against a 2019 baseline, by 2030 and against a 2015 baseline.                                                                                                                                                                                                                                                                                   | Medium-Long           | Reduced exposure related to energy, travel and water management.                                                                                                                                                                                                                                                                                            |
|                                                             | We have a target to reduce electricity in our direct on-site global operations by 2025 50% and improve our energy production 40% by 2025, against a 2019 baseline.                                                                                                                                                                                                                                                                     | Short                 |                                                                                                                                                                                                                                                                                                                                                             |
|                                                             | We plan to avoid credit volume charges representing in 10% of exposure across our UK portfolio by 2025 and exclude our list of around 100 volumes to electric, metals by 2025 80%.                                                                                                                                                                                                                                                     | Short - Medium        |                                                                                                                                                                                                                                                                                                                                                             |

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In 2022, we plan to further enhance carbon planning capability to support development of climate transition plans to measure and track our progress towards. Our transition plan will evolve in coming years as, for example, our capabilities and data develop. We plan to publish our climate transition plan in future reports, starting with our initial transition plan in our 2022 climate report.





| This table provides highlights of key progress and priorities for the principal risks most materially impacted by climate risk. For further details of the events and impacts associated with the transition and physical risks arising from climate change, refer to section 3.2 of this report. While climate change poses significant risks, it also offers Nottel Group a range of opportunities to support customer transition to net zero. The details of our climate-related opportunities, see section 3.2 of this report. |                                                                                                                                                                   |                                                                                                                                                                   |                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Principal risk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Definition                                                                                                                                                        | Climate impact                                                                                                                                                    | 2021 Key achievements and progress                                                                                                                                |
| Credit risk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Risk of non-payment by customers leading to credit losses and impairment of the balance sheet.                                                                    | Adverse impact upon future creditworthiness of customers due to climate change risk factors impacting credit ratings, income and costs.                           | Adverse impact upon future creditworthiness of customers due to climate change risk factors impacting credit ratings, income and costs.                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   | Climate risk is included in SAS and is qualitative                                                                                                                | Climate risk is included in SAS and is qualitative                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   | Climate risk is included in SAS and is qualitative                                                                                                                | Climate risk is included in SAS and is qualitative                                                                                                                |
| Operational risk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Risk of loss resulting from inadequate or failed internal processes, people, systems, or from external events.                                                    | Increased likelihood of operational disruption, including physical damage to assets, including physical damage to assets, including physical damage to assets.    | Increased likelihood of operational disruption, including physical damage to assets, including physical damage to assets.                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   | Increased likelihood of operational disruption, including physical damage to assets, including physical damage to assets.                                         | Increased likelihood of operational disruption, including physical damage to assets, including physical damage to assets.                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   | Increased likelihood of operational disruption, including physical damage to assets, including physical damage to assets.                                         | Increased likelihood of operational disruption, including physical damage to assets, including physical damage to assets.                                         |
| Reputational risk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Damage to stakeholder trust in Nottel Group as a purpose-led bank as a result of negative consequences arising from internal control failures or external events. | Increased stakeholder trust in Nottel Group as a purpose-led bank as a result of negative consequences arising from internal control failures or external events. | Increased stakeholder trust in Nottel Group as a purpose-led bank as a result of negative consequences arising from internal control failures or external events. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   | Increased stakeholder trust in Nottel Group as a purpose-led bank as a result of negative consequences arising from internal control failures or external events. | Increased stakeholder trust in Nottel Group as a purpose-led bank as a result of negative consequences arising from internal control failures or external events. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   | Increased stakeholder trust in Nottel Group as a purpose-led bank as a result of negative consequences arising from internal control failures or external events. | Increased stakeholder trust in Nottel Group as a purpose-led bank as a result of negative consequences arising from internal control failures or external events. |
| Compliance risk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Failure to comply with applicable laws, regulations, standards or good market practice.                                                                           | Increased compliance risk due to changes in applicable laws, regulations, standards or good market practice.                                                      | Increased compliance risk due to changes in applicable laws, regulations, standards or good market practice.                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   | Increased compliance risk due to changes in applicable laws, regulations, standards or good market practice.                                                      | Increased compliance risk due to changes in applicable laws, regulations, standards or good market practice.                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   | Increased compliance risk due to changes in applicable laws, regulations, standards or good market practice.                                                      | Increased compliance risk due to changes in applicable laws, regulations, standards or good market practice.                                                      |

### 3c. Integrasi kepada Keseluruhan Risiko

Kuantitatif: 2  
Kualitatif: 4  
Halaman: 51-52

## 4. Metrics and Targets

- Metrics used to assess climate-related risks:
- Exposure to high-emission climate-related risk sectors.
  - Energy efficiency and flood risk assessment for Retail Banking residential mortgage portfolio.
  - Capital markets transactions.
  - Nottel Group own operational footprint.
  - Estimation of financial opportunities and emission reductions.
- Metrics used to assess climate-related opportunities:
- Climate and Sustainable Funding and Financing.
  - Nottel Group Green Bond Issuance.

| As at 31 December 2021       |         | As at 31 December 2020       |         |
|------------------------------|---------|------------------------------|---------|
| Category                     | Value   | Category                     | Value   |
| Residential mortgage         | 154,031 | Residential mortgage         | 154,031 |
| Commercial real estate       | 18,701  | Commercial real estate       | 18,701  |
| Power generation             | 8,319   | Power generation             | 8,319   |
| Automotive                   | 8,479   | Automotive                   | 8,479   |
| Power utilities              | 4,020   | Power utilities              | 4,020   |
| Land transport and logistics | 1,021   | Land transport and logistics | 1,021   |
| Agriculture                  | 5,084   | Agriculture                  | 5,084   |
| Construction                 | 4,051   | Construction                 | 4,051   |
| Oil and gas                  | 1,475   | Oil and gas                  | 1,475   |
| Airline and aerospace        | 1,475   | Airline and aerospace        | 1,475   |
| Building materials           | 1,235   | Building materials           | 1,235   |
| Shipping                     | 96      | Shipping                     | 96      |
| Chemicals                    | 109     | Chemicals                    | 109     |
| Mining and metals            | 202     | Mining and metals            | 202     |
| Total high-emission          | 251,043 | Total high-emission          | 251,043 |
| Climate-related risk sectors | 251,043 | Climate-related risk sectors | 251,043 |
| Total Nottel Group           | 30,827  | Total Nottel Group           | 30,827  |

The charts opposite summarise the energy efficiency of the Retail Banking residential mortgage portfolio by EPC rating, with A indicating the best and G the worst in terms of energy efficiency. As at 31 December 2020, EPC data was available for England and Wales only. EPC data became available for Scotland in Q3 2021 and for Northern Ireland in Q4 2021 and is included in the 31 December 2021 analysis. The UK Retail Banking mortgage portfolio makes up £172.9 billion or 85% of the total residential mortgage portfolio of Nottel Group. As at 31 December 2021, 382% (31 December 2020: 364%) of our Retail Banking residential mortgage portfolio that had EPC data available, was rated as EPC C or better.

EPC data is available for mortgages amounting to £110.3 billion as at 31 December 2021, analysed below (31 December 2020 – £92.9 billion – England and Wales only). This accounts for 64% of the UK Retail Banking mortgage portfolio (31 December 2020 – 64% – England and Wales only). Of these, £100.6 billion are owner occupied and £9.7 billion are buy-to-let.

On a total volume basis, Retail Banking mortgages at high risk of flooding are 3.1% of the portfolio and those at very high risk are 0.1% of the portfolio. This is comparable to the overall UK volume-based analysis with high of 3.0% and very high of 0.1%.

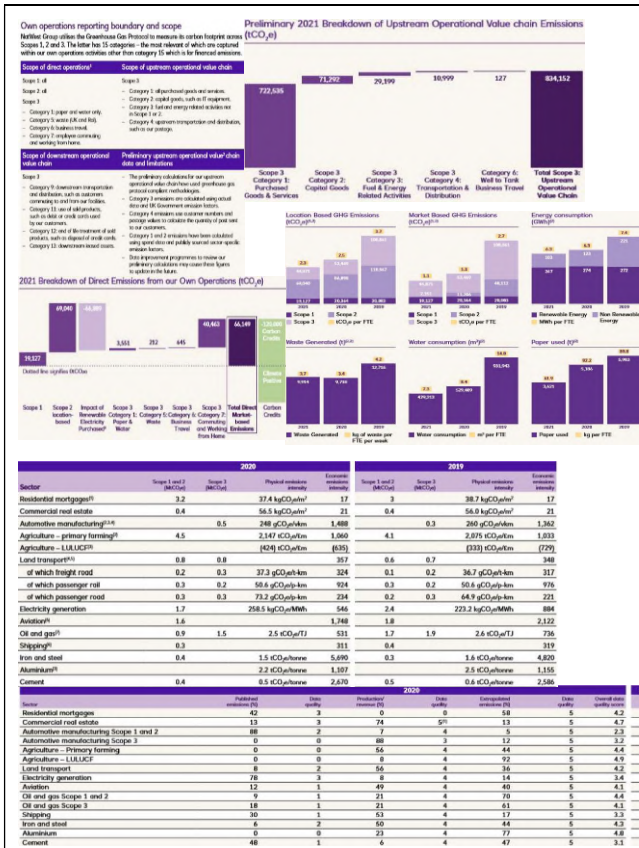
Data for flood risk analysis: We are using the Airbus Geospatial Financial Hub (GFH) to analyse the potential financial impact of climate change on individual properties in the Retail Banking mortgage portfolio. The GFH combines detailed data from multiple sources to enable assessment of climate change impacts at individual property level. Risks analysed include surface flooding, rivers, ground water as well as coastal flooding and clay-related shrink-swell. Airbus gathers multiple geospatial datasets, derived from industry specialists including Ordnance Survey, JBA Risk Management and Property Risk Inspection. It also calculates the physical risks to properties now and as global temperatures rise using climate data from the UK Climate Projections 2018 (UKCP18).

### 4a. Penggunaan Metrik

Kuantitatif: 4  
Kualitatif: 8  
Halaman: 11,58,60-62,65,70,77

| Sector                                                      |                                      | 2021   | 2020   |
|-------------------------------------------------------------|--------------------------------------|--------|--------|
| Utility and energy                                          | Of which fall under the CSF criteria | 5,706  | 5,761  |
| Mining                                                      |                                      | 999    | 2,921  |
| Oil and gas                                                 |                                      | 94     | 270    |
| Grand total of oil industries (NWM Group apportioned value) |                                      | 1,166  | 589    |
|                                                             |                                      | 71,210 | 77,471 |

| Sector                                                      |                                      | 2021   | 2020   |
|-------------------------------------------------------------|--------------------------------------|--------|--------|
| Utility and energy                                          | Of which fall under the CSF criteria | 5,706  | 5,761  |
| Mining                                                      |                                      | 999    | 2,921  |
| Oil and gas                                                 |                                      | 94     | 270    |
| Grand total of oil industries (NWM Group apportioned value) |                                      | 1,166  | 589    |
|                                                             |                                      | 71,210 | 77,471 |

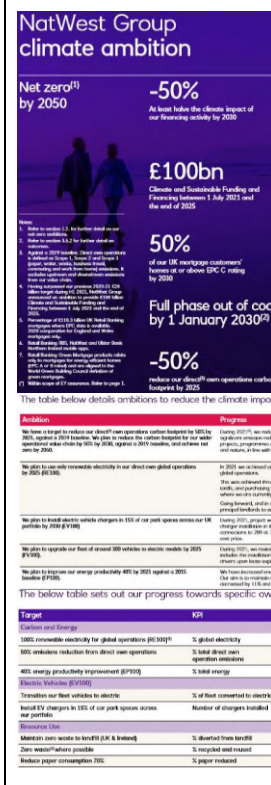


## 4b. Ruang Lingkup 1, 2, 3 Emisi GRK

Kuantitatif: 2

Kualitatif: 7

Halaman: 67,69, 79-80



## 4c. Penggunaan Target

Kuantitatif: 2

Kualitatif: 7

Halaman 3,35,68

# Lampiran 5 : Hasil Penilaian Pengungkapan Pelaporan Iklim dengan Rekomendasi TCFD Kuantitatif

| KUANITATIF |                          |                 |                    |                                      |                                 |                        |                                               |                              |                                                                |                                    |                                |                                       |    | Total |
|------------|--------------------------|-----------------|--------------------|--------------------------------------|---------------------------------|------------------------|-----------------------------------------------|------------------------------|----------------------------------------------------------------|------------------------------------|--------------------------------|---------------------------------------|----|-------|
| Tahun      | Emiten                   | Board Oversight | Management's Roles | Risks & Opportunities Identification | Impact of Risks & Opportunities | Resilience of Strategy | Processes for Identifying and Assessing Risks | Processes for Managing Risks | Processes for Climate-Related Risks Integrated to Overall Risk | Metrics Used in Line with Strategy | Scope 1, 2, 3 of GHG Emissions | Targets & Performance Against Targets |    |       |
| 2020       | Nippon Steel Corp.       | 1               | 3                  | 2                                    | 2                               | 2                      | 1                                             | 1                            | 2                                                              | 3                                  | 2                              | 3                                     | 22 |       |
|            | JFE Holdings, Inc        | 5               | 3                  | 3                                    | 3                               | 2                      | 2                                             | 3                            | 3                                                              | 2                                  | 1                              | 4                                     | 31 |       |
|            | Kobe Steel Ltd           | 2               | 0                  | 3                                    | 2                               | 0                      | 2                                             | 0                            | 5                                                              | 1                                  | 4                              | 4                                     | 23 |       |
|            | MUFG Bank                | 2               | 2                  | 4                                    | 2                               | 4                      | 3                                             | 2                            | 3                                                              | 5                                  | 2                              | 4                                     | 33 |       |
|            | Japan Post Bank          | 2               | 2                  | 2                                    | 3                               | 0                      | 2                                             | 1                            | 1                                                              | 1                                  | 1                              | 1                                     | 16 |       |
|            | Mizuho Financial Group   | 3               | 2                  | 2                                    | 3                               | 4                      | 2                                             | 3                            | 4                                                              | 2                                  | 3                              | 3                                     | 31 |       |
|            | Anglo American Plc       | 1               | 1                  | 2                                    | 2                               | 5                      | 1                                             | 5                            | 5                                                              | 1                                  | 1                              | 2                                     | 26 |       |
|            | Endeavour Mining PlC     | 3               | 4                  | 4                                    | 4                               | 0                      | 2                                             | 3                            | 0                                                              | 2                                  | 2                              | 3                                     | 27 |       |
|            | Rio Tinto                | 5               | 5                  | 2                                    | 2                               | 4                      | 4                                             | 4                            | 2                                                              | 5                                  | 3                              | 3                                     | 36 |       |
|            | Barclays                 | 4               | 5                  | 5                                    | 5                               | 4                      | 4                                             | 3                            | 3                                                              | 5                                  | 3                              | 0                                     | 40 |       |
|            | NatWest Group            | 5               | 4                  | 2                                    | 3                               | 4                      | 4                                             | 3                            | 3                                                              | 5                                  | 3                              | 1                                     | 38 |       |
|            | Lloyds Banking Group     | 4               | 5                  | 2                                    | 0                               | 5                      | 2                                             | 3                            | 3                                                              | 0                                  | 2                              | 2                                     | 28 |       |
|            | African Rainbow Minerals | 3               | 2                  | 5                                    | 4                               | 3                      | 3                                             | 0                            | 3                                                              | 3                                  | 3                              | 3                                     | 37 |       |
|            | Exxaro Resources         | 3               | 1                  | 3                                    | 1                               | 4                      | 3                                             | 0                            | 3                                                              | 3                                  | 1                              | 3                                     | 24 |       |
| 2021       | Gold Fields              | 2               | 2                  | 3                                    | 5                               | 3                      | 4                                             | 3                            | 3                                                              | 2                                  | 3                              | 4                                     | 19 |       |
|            | Standard Bank Group      | 3               | 3                  | 3                                    | 0                               | 0                      | 2                                             | 4                            | 0                                                              | 3                                  | 2                              | 3                                     | 18 |       |
|            | FirstRand                | 3               | 3                  | 3                                    | 2                               | 4                      | 3                                             | 0                            | 3                                                              | 2                                  | 2                              | 3                                     | 24 |       |
|            | ABSA Group               | 5               | 4                  | 5                                    | 2                               | 3                      | 0                                             | 3                            | 5                                                              | 5                                  | 3                              | 3                                     | 37 |       |
|            | Nippon Steel Corp.       | 3               | 2                  | 3                                    | 2                               | 5                      | 1                                             | 3                            | 2                                                              | 1                                  | 2                              | 2                                     | 23 |       |
|            | JFE Holdings, Inc        | 2               | 2                  | 3                                    | 2                               | 3                      | 3                                             | 4                            | 5                                                              | 1                                  | 1                              | 3                                     | 29 |       |
|            | Kobe Steel Ltd           | 1               | 3                  | 4                                    | 2                               | 2                      | 2                                             | 0                            | 0                                                              | 3                                  | 2                              | 3                                     | 21 |       |
|            | MUFG Bank                | 3               | 2                  | 4                                    | 1                               | 3                      | 2                                             | 2                            | 3                                                              | 2                                  | 1                              | 2                                     | 25 |       |
|            | Japan Post Bank          | 1               | 2                  | 1                                    | 3                               | 4                      | 2                                             | 0                            | 2                                                              | 2                                  | 1                              | 3                                     | 21 |       |
|            | Mizuho Financial Group   | 2               | 2                  | 3                                    | 2                               | 5                      | 2                                             | 2                            | 3                                                              | 1                                  | 2                              | 3                                     | 27 |       |
|            | Anglo American Plc       | 5               | 3                  | 2                                    | 4                               | 3                      | 5                                             | 3                            | 4                                                              | 1                                  | 3                              | 5                                     | 38 |       |
|            | Endeavour Mining PlC     | 1               | 2                  | 2                                    | 2                               | 4                      | 4                                             | 4                            | 5                                                              | 2                                  | 5                              | 5                                     | 37 |       |
|            | Rio Tinto                | 5               | 2                  | 3                                    | 2                               | 2                      | 3                                             | 1                            | 3                                                              | 3                                  | 2                              | 4                                     | 28 |       |
|            | Barclays                 | 3               | 5                  | 4                                    | 5                               | 3                      | 4                                             | 4                            | 5                                                              | 2                                  | 3                              | 2                                     | 36 |       |
| 2022       | NatWest Group            | 3               | 5                  | 3                                    | 2                               | 3                      | 4                                             | 4                            | 4                                                              | 5                                  | 2                              | 3                                     | 36 |       |
|            | Lloyds Banking Group     | 5               | 3                  | 3                                    | 5                               | 4                      | 3                                             | 5                            | 2                                                              | 2                                  | 3                              | 2                                     | 39 |       |
|            | African Rainbow Minerals | 3               | 2                  | 2                                    | 4                               | 5                      | 4                                             | 4                            | 3                                                              | 3                                  | 5                              | 3                                     | 38 |       |
|            | Exxaro Resources         | 3               | 2                  | 1                                    | 2                               | 0                      | 2                                             | 2                            | 5                                                              | 2                                  | 2                              | 2                                     | 27 |       |
|            | Gold Fields              | 1               | 2                  | 1                                    | 3                               | 3                      | 4                                             | 4                            | 1                                                              | 5                                  | 2                              | 3                                     | 29 |       |
|            | Standard Bank Group      | 5               | 2                  | 3                                    | 5                               | 3                      | 2                                             | 0                            | 4                                                              | 4                                  | 1                              | 3                                     | 28 |       |
|            | FirstRand                | 2               | 2                  | 3                                    | 2                               | 4                      | 3                                             | 2                            | 4                                                              | 1                                  | 4                              | 3                                     | 31 |       |
|            | ABSA Group               | 5               | 5                  | 5                                    | 2                               | 4                      | 5                                             | 5                            | 5                                                              | 5                                  | 4                              | 5                                     | 50 |       |

# Lampiran 6 : Hasil Penilaian Pengungkapan Pelaporan Iklim dengan Rekomendasi TCFD Kualitatif

| KUALITATIF               |                          |                 |                    |                                      |                                 |                        |                                               |                              |                                                                |                                    |                                |                                       |    |       |
|--------------------------|--------------------------|-----------------|--------------------|--------------------------------------|---------------------------------|------------------------|-----------------------------------------------|------------------------------|----------------------------------------------------------------|------------------------------------|--------------------------------|---------------------------------------|----|-------|
| Tahun                    | Emiten                   | Governance      |                    |                                      | Strategy                        |                        |                                               | Risk Management              |                                                                |                                    | Metrics and Targets            |                                       |    | Total |
|                          |                          | Board Oversight | Management's Roles | Risks & Opportunities Identification | Impact of Risks & Opportunities | Resilience of Strategy | Processes for Identifying and Assessing Risks | Processes for Managing Risks | Processes for Climate-Related Risks Integrated to Overall Risk | Metrics Used in Line with Strategy | Scope 1, 2, 3 of GHG Emissions | Targets & Performance Against Targets |    |       |
| 2020                     | Nippon Steel Corp.       | 1               | 4                  | 7                                    | 7                               | 7                      | 4                                             | 1                            | 1                                                              | 1                                  | 4                              | 7                                     | 1  | 44    |
|                          | JFE Holdings, Inc        | 3               | 1                  | 7                                    | 4                               | 4                      | 1                                             | 1                            | 0                                                              | 1                                  | 3                              | 7                                     | 3  | 35    |
|                          | Kobe Steel Ltd           | 4               | 0                  | 4                                    | 1                               | 0                      | 4                                             | 0                            | 1                                                              | 1                                  | 1                              | 7                                     | 7  | 29    |
|                          | MMFG Bank                | 1               | 4                  | 3                                    | 4                               | 8                      | 1                                             | 4                            | 7                                                              | 8                                  | 7                              | 3                                     | 50 |       |
|                          | Japan Post Bank          | 1               | 4                  | 4                                    | 3                               | 0                      | 1                                             | 4                            | 4                                                              | 4                                  | 7                              | 7                                     | 39 |       |
|                          | Mizuho Financial Group   | 1               | 4                  | 4                                    | 4                               | 7                      | 1                                             | 4                            | 4                                                              | 1                                  | 7                              | 5                                     | 42 |       |
|                          | Anglo American Plc       | 1               | 1                  | 4                                    | 5                               | 7                      | 4                                             | 1                            | 1                                                              | 1                                  | 7                              | 7                                     | 39 |       |
|                          | Endeavour Mining PLC     | 1               | 1                  | 1                                    | 1                               | 0                      | 1                                             | 1                            | 0                                                              | 4                                  | 4                              | 1                                     | 21 |       |
|                          | Rio Tinto                | 1               | 4                  | 4                                    | 4                               | 4                      | 4                                             | 3                            | 4                                                              | 4                                  | 7                              | 7                                     | 46 |       |
|                          | Barclays                 | 1               | 4                  | 4                                    | 7                               | 6                      | 4                                             | 4                            | 4                                                              | 4                                  | 0                              | 7                                     | 49 |       |
|                          | NatWest Group            | 1               | 4                  | 4                                    | 4                               | 7                      | 4                                             | 1                            | 1                                                              | 6                                  | 7                              | 3                                     | 42 |       |
|                          | Lloyds Banking Group     | 1               | 4                  | 4                                    | 0                               | 4                      | 4                                             | 1                            | 0                                                              | 3                                  | 7                              | 3                                     | 31 |       |
|                          | African Rainbow Minerals | 4               | 4                  | 3                                    | 7                               | 4                      | 1                                             | 1                            | 4                                                              | 1                                  | 7                              | 3                                     | 39 |       |
|                          | Exxaro Resources         | 1               | 4                  | 8                                    | 4                               | 7                      | 0                                             | 0                            | 4                                                              | 4                                  | 7                              | 1                                     | 40 |       |
| 2021                     | Gold Fields              | 4               | 4                  | 4                                    | 4                               | 4                      | 1                                             | 0                            | 4                                                              | 4                                  | 7                              | 7                                     | 40 |       |
|                          | Standard Bank Group      | 1               | 4                  | 5                                    | 1                               | 1                      | 1                                             | 1                            | 4                                                              | 8                                  | 7                              | 3                                     | 36 |       |
|                          | FirstRand                | 1               | 4                  | 4                                    | 0                               | 0                      | 4                                             | 0                            | 0                                                              | 4                                  | 7                              | 3                                     | 27 |       |
|                          | ABSA Group               | 1               | 4                  | 4                                    | 1                               | 1                      | 4                                             | 4                            | 7                                                              | 4                                  | 7                              | 7                                     | 40 |       |
|                          | Nippon Steel Corp.       | 1               | 1                  | 7                                    | 4                               | 7                      | 0                                             | 4                            | 1                                                              | 1                                  | 4                              | 7                                     | 43 |       |
|                          | JFE Holdings, Inc        | 1               | 4                  | 4                                    | 4                               | 4                      | 1                                             | 4                            | 1                                                              | 1                                  | 7                              | 4                                     | 35 |       |
|                          | Kobe Steel Ltd           | 4               | 4                  | 8                                    | 1                               | 1                      | 4                                             | 0                            | 0                                                              | 7                                  | 7                              | 7                                     | 39 |       |
|                          | MMFG Bank                | 4               | 0                  | 4                                    | 4                               | 8                      | 4                                             | 0                            | 4                                                              | 8                                  | 7                              | 7                                     | 54 |       |
|                          | Japan Post Bank          | 1               | 4                  | 4                                    | 8                               | 4                      | 1                                             | 4                            | 4                                                              | 0                                  | 7                              | 7                                     | 44 |       |
|                          | Mizuho Financial Group   | 4               | 4                  | 4                                    | 2                               | 4                      | 1                                             | 0                            | 4                                                              | 1                                  | 7                              | 8                                     | 39 |       |
|                          | Anglo American Plc       | 1               | 1                  | 1                                    | 1                               | 7                      | 1                                             | 1                            | 0                                                              | 1                                  | 7                              | 7                                     | 28 |       |
|                          | Endeavour Mining PLC     | 1               | 1                  | 1                                    | 0                               | 0                      | 4                                             | 7                            | 0                                                              | 7                                  | 7                              | 0                                     | 29 |       |
|                          | Rio Tinto                | 1               | 1                  | 4                                    | 3                               | 1                      | 4                                             | 0                            | 4                                                              | 1                                  | 8                              | 7                                     | 31 |       |
|                          | Barclays                 | 1               | 4                  | 4                                    | 8                               | 7                      | 4                                             | 1                            | 4                                                              | 3                                  | 7                              | 7                                     | 42 |       |
| 2022                     | NatWest Group            | 1               | 4                  | 4                                    | 7                               | 4                      | 1                                             | 4                            | 4                                                              | 8                                  | 7                              | 7                                     | 55 |       |
|                          | Lloyds Banking Group     | 4               | 1                  | 4                                    | 6                               | 8                      | 4                                             | 4                            | 1                                                              | 1                                  | 8                              | 8                                     | 55 |       |
|                          | African Rainbow Minerals | 4               | 4                  | 4                                    | 1                               | 4                      | 4                                             | 4                            | 1                                                              | 3                                  | 7                              | 7                                     | 43 |       |
|                          | Exxaro Resources         | 4               | 4                  | 0                                    | 1                               | 1                      | 4                                             | 4                            | 0                                                              | 7                                  | 7                              | 7                                     | 39 |       |
|                          | Gold Fields              | 4               | 4                  | 4                                    | 4                               | 7                      | 4                                             | 4                            | 4                                                              | 7                                  | 7                              | 4                                     | 53 |       |
|                          | Standard Bank Group      | 4               | 4                  | 4                                    | 0                               | 4                      | 4                                             | 0                            | 1                                                              | 1                                  | 7                              | 7                                     | 36 |       |
|                          | FirstRand                | 4               | 4                  | 4                                    | 8                               | 7                      | 4                                             | 0                            | 4                                                              | 1                                  | 7                              | 8                                     | 51 |       |
|                          | ABSA Group               | 1               | 1                  | 4                                    | 1                               | 1                      | 0                                             | 1                            | 4                                                              | 1                                  | 7                              | 3                                     | 31 |       |
|                          | Nippon Steel Corp.       | 1               | 4                  | 7                                    | 4                               | 8                      | 1                                             | 1                            | 1                                                              | 1                                  | 7                              | 7                                     | 42 |       |
|                          | JFE Holdings, Inc        | 1               | 4                  | 4                                    | 4                               | 4                      | 4                                             | 1                            | 0                                                              | 1                                  | 7                              | 7                                     | 38 |       |
|                          | Kobe Steel Ltd           | 1               | 4                  | 4                                    | 1                               | 3                      | 1                                             | 0                            | 0                                                              | 7                                  | 7                              | 7                                     | 35 |       |
|                          | MMFG Bank                | 4               | 4                  | 8                                    | 4                               | 8                      | 4                                             | 4                            | 4                                                              | 8                                  | 7                              | 4                                     | 59 |       |
|                          | Japan Post Bank          | 4               | 4                  | 4                                    | 8                               | 8                      | 4                                             | 0                            | 4                                                              | 4                                  | 8                              | 7                                     | 55 |       |
|                          | Mizuho Financial Group   | 4               | 4                  | 4                                    | 4                               | 8                      | 4                                             | 4                            | 4                                                              | 4                                  | 7                              | 8                                     | 55 |       |
| Anglo American Plc       | 4                        | 4               | 4                  | 1                                    | 7                               | 1                      | 4                                             | 1                            | 1                                                              | 7                                  | 7                              | 41                                    |    |       |
| Endeavour Mining PLC     | 4                        | 4               | 7                  | 7                                    | 3                               | 1                      | 1                                             | 1                            | 3                                                              | 7                                  | 3                              | 41                                    |    |       |
| Rio Tinto                | 1                        | 1               | 4                  | 7                                    | 7                               | 4                      | 1                                             | 4                            | 7                                                              | 7                                  | 7                              | 50                                    |    |       |
| Barclays                 | 1                        | 4               | 4                  | 1                                    | 8                               | 4                      | 1                                             | 4                            | 4                                                              | 5                                  | 7                              | 46                                    |    |       |
| NatWest Group            | 1                        | 4               | 4                  | 8                                    | 4                               | 4                      | 4                                             | 4                            | 1                                                              | 1                                  | 7                              | 48                                    |    |       |
| Lloyds Banking Group     | 4                        | 4               | 4                  | 1                                    | 7                               | 1                      | 1                                             | 4                            | 8                                                              | 8                                  | 8                              | 50                                    |    |       |
| African Rainbow Minerals | 1                        | 4               | 4                  | 1                                    | 4                               | 7                      | 1                                             | 4                            | 7                                                              | 7                                  | 7                              | 47                                    |    |       |
| Exxaro Resources         | 4                        | 4               | 7                  | 4                                    | 0                               | 4                      | 1                                             | 1                            | 7                                                              | 7                                  | 4                              | 43                                    |    |       |
| Gold Fields              | 4                        | 4               | 4                  | 7                                    | 7                               | 4                      | 4                                             | 1                            | 7                                                              | 7                                  | 4                              | 53                                    |    |       |
| Standard Bank Group      | 1                        | 1               | 4                  | 1                                    | 4                               | 4                      | 0                                             | 4                            | 7                                                              | 1                                  | 8                              | 35                                    |    |       |
| FirstRand                | 4                        | 4               | 4                  | 8                                    | 7                               | 4                      | 4                                             | 7                            | 7                                                              | 8                                  | 7                              | 64                                    |    |       |
| ABSA Group               | 4                        | 4               | 4                  | 1                                    | 4                               | 4                      | 4                                             | 1                            | 8                                                              | 7                                  | 7                              | 48                                    |    |       |

## Lampiran 7 : Tingkat Kualitas Pengungkapan Pelaporan Iklim Kuantitatif dan Kualitatif

### Analisis Kuantitatif

| No | Nama Perusahaan          | Skor |      |      | Presentase |      |      |
|----|--------------------------|------|------|------|------------|------|------|
|    |                          | 2020 | 2021 | 2022 | 2020       | 2021 | 2022 |
| 1  | Nippon Steel Corp.       | 22   | 17   | 23   | 40%        | 31%  | 42%  |
| 2  | JFE Holdings, Inc        | 31   | 24   | 29   | 56%        | 44%  | 53%  |
| 3  | Kobe Steel Ltd           | 23   | 18   | 21   | 42%        | 33%  | 38%  |
| 4  | MUFG Bank                | 33   | 19   | 25   | 60%        | 35%  | 45%  |
| 5  | Japan Post Bank          | 16   | 17   | 21   | 29%        | 31%  | 38%  |
| 6  | Mizuho Financial Group   | 31   | 27   | 27   | 56%        | 49%  | 49%  |
| 7  | Anglo American Plc       | 26   | 32   | 38   | 47%        | 58%  | 69%  |
| 8  | Endeavour Mining PLC     | 27   | 20   | 37   | 49%        | 36%  | 67%  |
| 9  | Rio Tinto                | 36   | 24   | 28   | 65%        | 44%  | 51%  |
| 10 | Barclays                 | 40   | 37   | 36   | 73%        | 67%  | 65%  |
| 11 | NatWest Group            | 38   | 43   | 36   | 69%        | 78%  | 65%  |
| 12 | Lloyds Banking Group     | 28   | 51   | 39   | 51%        | 93%  | 71%  |
| 13 | African Rainbow Minerals | 37   | 40   | 38   | 67%        | 73%  | 69%  |
| 14 | Exxaro Resources         | 24   | 24   | 27   | 44%        | 44%  | 49%  |
| 15 | Gold Fields              | 19   | 21   | 29   | 35%        | 38%  | 53%  |
| 16 | Standard Bank Group      | 34   | 23   | 28   | 62%        | 42%  | 51%  |
| 17 | FirstRand                | 18   | 29   | 31   | 33%        | 53%  | 56%  |
| 18 | ABSA Group               | 42   | 38   | 50   | 76%        | 69%  | 91%  |

### Analisis Kualitatif

| No | Nama Perusahaan        | Skor |      |      | Presentase |      |      |
|----|------------------------|------|------|------|------------|------|------|
|    |                        | 2020 | 2021 | 2022 | 2020       | 2021 | 2022 |
| 1  | Nippon Steel Corp.     | 44   | 43   | 42   | 50%        | 49%  | 48%  |
| 2  | JFE Holdings, Inc      | 35   | 35   | 38   | 40%        | 40%  | 43%  |
| 3  | Kobe Steel Ltd         | 29   | 39   | 35   | 33%        | 44%  | 40%  |
| 4  | MUFG Bank              | 50   | 54   | 59   | 57%        | 61%  | 67%  |
| 5  | Japan Post Bank        | 39   | 44   | 55   | 44%        | 50%  | 63%  |
| 6  | Mizuho Financial Group | 42   | 39   | 55   | 48%        | 44%  | 63%  |
| 7  | Anglo American Plc     | 39   | 28   | 41   | 44%        | 32%  | 47%  |
| 8  | Endeavour Mining PLC   | 21   | 29   | 41   | 24%        | 33%  | 47%  |

|    |                          |    |    |    |     |     |     |
|----|--------------------------|----|----|----|-----|-----|-----|
| 9  | Rio Tinto                | 46 | 31 | 50 | 52% | 35% | 57% |
| 10 | Barclays                 | 49 | 42 | 46 | 56% | 48% | 52% |
| 11 | NatWest Group            | 42 | 55 | 48 | 48% | 63% | 55% |
| 12 | Lloyds Banking Group     | 31 | 55 | 50 | 35% | 63% | 57% |
| 13 | African Rainbow Minerals | 39 | 43 | 47 | 44% | 49% | 53% |
| 14 | Exxaro Resources         | 40 | 39 | 43 | 45% | 44% | 49% |
| 15 | Gold Fields              | 40 | 53 | 53 | 45% | 60% | 60% |
| 16 | Standard Bank Group      | 36 | 36 | 35 | 41% | 41% | 40% |
| 17 | FirstRand                | 27 | 51 | 64 | 31% | 58% | 73% |
| 18 | ABSA Group               | 40 | 31 | 48 | 45% | 35% | 55% |



## Lampiran 8 : Hasil Perhitungan Tabel Kontigensi

$$Distance = \sqrt{(peringkat kuantitatif)^2 + (peringkat kualitatif)^2}$$

| KUANTITATIF |           |     |         |           | DISTANCE         | KUALITATIF |           |     |         |           |
|-------------|-----------|-----|---------|-----------|------------------|------------|-----------|-----|---------|-----------|
| Emiten      | Avg 3 Thn | %   | Tingkat | Peringkat | KECIL YG TERBAIK | Emiten     | Avg 3 Thn | %   | Tingkat | Peringkat |
| NS          | 20.67     | 38% | Rendah  | 16        | 18.36            | NS         | 43.00     | 49% | Sedang  | 9         |
| JF          | 28.00     | 51% | Sedang  | 10        | 17.20            | JF         | 36.00     | 41% | Sedang  | 14        |
| KS          | 20.67     | 38% | Rendah  | 17        | 23.69            | KS         | 34.33     | 39% | Rendah  | 17        |
| MU          | 25.67     | 47% | Sedang  | 13        | 13.04            | MU         | 54.33     | 62% | Tinggi  | 1         |
| JP          | 18.00     | 33% | Rendah  | 18        | 18.68            | JP         | 46.00     | 52% | Sedang  | 5         |
| MF          | 28.33     | 52% | Sedang  | 8         | 10.63            | MF         | 45.33     | 52% | Sedang  | 7         |
| AA          | 32.00     | 58% | Sedang  | 6         | 15.69            | AA         | 36.00     | 41% | Sedang  | 15        |
| EM          | 28.00     | 51% | Sedang  | 11        | 20.84            | EM         | 30.33     | 34% | Rendah  | 18        |
| RT          | 29.33     | 53% | Sedang  | 7         | 13.04            | RT         | 42.33     | 48% | Sedang  | 11        |
| BC          | 37.67     | 68% | Tinggi  | 5         | 7.81             | BC         | 45.67     | 52% | Sedang  | 6         |
| NW          | 39.00     | 71% | Tinggi  | 3         | 4.24             | NW         | 48.33     | 55% | Sedang  | 3         |
| LL          | 39.33     | 72% | Tinggi  | 2         | 7.76             | LL         | 45.33     | 52% | Sedang  | 8         |
| AR          | 38.33     | 70% | Tinggi  | 4         | 10.31            | AR         | 43.00     | 49% | Sedang  | 10        |
| EX          | 25.00     | 45% | Sedang  | 14        | 18.44            | EX         | 40.67     | 46% | Sedang  | 12        |
| GF          | 23.00     | 42% | Sedang  | 15        | 15.13            | GF         | 48.67     | 55% | Sedang  | 2         |
| SB          | 28.33     | 52% | Sedang  | 9         | 18.12            | SB         | 35.67     | 41% | Sedang  | 16        |
| FR          | 26.00     | 47% | Sedang  | 12        | 12.65            | FR         | 47.33     | 54% | Sedang  | 4         |
| AB          | 43.33     | 79% | Tinggi  | 1         | 13.04            | AB         | 39.67     | 45% | Sedang  | 13        |

| Emiten | Distance | Peringkat | Tingkat | Peringkat | KECIL YG TERBAIK |    |    |
|--------|----------|-----------|---------|-----------|------------------|----|----|
| NS     | 18.36    | 14        | Rendah  | 16        | 4.24             | NW | 1  |
| JF     | 17.20    | 12        | Sedang  | 10        | 7.76             | LL | 2  |
| KS     | 23.69    | 18        | Rendah  | 17        | 7.81             | BC | 3  |
| MU     | 13.04    | 7         | Sedang  | 13        | 10.31            | AR | 4  |
| JP     | 18.68    | 16        | Rendah  | 18        | 10.63            | MF | 5  |
| MF     | 10.63    | 5         | Sedang  | 8         | 12.65            | FR | 6  |
| AA     | 15.69    | 11        | Sedang  | 6         | 13.04            | MU | 7  |
| EM     | 20.84    | 17        | Sedang  | 11        | 13.04            | RT | 8  |
| RT     | 13.04    | 8         | Sedang  | 7         | 13.04            | AB | 9  |
| BC     | 7.81     | 3         | Tinggi  | 5         | 15.13            | GF | 10 |
| NW     | 4.24     | 1         | Tinggi  | 3         | 15.69            | AA | 11 |
| LL     | 7.76     | 2         | Tinggi  | 2         | 17.20            | JF | 12 |
| AR     | 10.31    | 4         | Tinggi  | 4         | 18.12            | SB | 13 |
| EX     | 18.44    | 15        | Sedang  | 14        | 18.36            | NS | 14 |
| GF     | 15.13    | 10        | Sedang  | 15        | 18.44            | EX | 15 |
| SB     | 18.12    | 13        | Sedang  | 9         | 18.68            | JP | 16 |
| FR     | 12.65    | 6         | Sedang  | 12        | 20.84            | EM | 17 |
| AB     | 13.04    | 9         | Tinggi  | 1         | 23.69            | KS | 18 |