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| 7.1.1 | | 1 |
| 7.1.2 | | 1 |
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1.3

1.3.1

| | | | | | | | |
|---|------|------|---|---|------|----|----|
| | 2024 | 2024 | 1 | 1 | 2024 | 12 | 31 |
| 3 | | | | 5 | | | |

1.3.2

1.3.3

1.4

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|---|--------------|------------|------|
| | GHG protocol | ISO14064-1 | 2018 |
| 1 | | | |

1.5

1.6

2.1

ISO 14064-1

"

"

GHG

2.2

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1-6

2.1

| | | | | |
|---|-------|--|--------------------|--------------------|
| | | | | |
| 1 | 1 GHG | | tCO ₂ e | |
| 1 | 1.1 | | | |
| 1 | 1.2 | | | |
| 1 | 1.3 | | | |
| 1 | 1.4 | | | |
| 1 | 1.5 | | | |
| 2 | 2 | | GHG | tCO ₂ e |
| 2 | 2.1 | | | |
| 2 | 2.2 | | | |
| 3 | 3 | | GHG | |
| 3 | 3.1 | | | |
| 3 | 3.2 | | | |
| 3 | 3.3 | | | |
| 3 | 3.4 | | | |
| 3 | 3.5 | | | |
| 4 | 4 | | GHG | |
| 4 | 4.1 | | | |
| 4 | 4.2 | | | |
| 4 | 4.3 | | | |
| 4 | 4.4 | | | |
| 4 | 4.5 | | | |
| 5 | 5 | | GHG | |
| 5 | 5.1 | | GHG | |
| 5 | 5.2 | | | |

| | | | | |
|---|-----|---|-----|-----|
| 5 | 5.3 | | | |
| 5 | 5.4 | | | |
| 6 | | 6 | GHG | GHG |

2.2

| | | | ISO140 | ISO140 | CO2 | CH4 | N2O | HFCs | PFCs | SF6 | NF3 |
|----|--------|--|--------------|--------------|-----|-----|-----|------|------|-----|-----|
| | | | 64-1 2018 | 64-1 2018 | | | | | | | |
| 1 | | | 1 | 1.1 | √ | √ | √ | | | | |
| 2 | | | 1 | 1.2 | √ | √ | √ | | | | |
| 3 | | | 1 | 1.3 | √ | √ | √ | | | | |
| 4 | -R22 | | 1 | 1.4 | | | | √ | | | |
| 5 | -R404a | | 1 | 1.4 | | | | √ | | | |
| 6 | CH4 | | 1 | 1.4 | | √ | | | | | |
| 7 | | | 2 | 2.1 | √ | | | | | | |
| 8 | | | 3 | 3.1 | √ | | | | | | |
| 9 | | | 3 | 3.1 | √ | | | | | | |
| 10 | | | 3 | 3.1 | √ | | | | | | |
| 11 | | | 3 | 3.1 | √ | | | | | | |
| 12 | | | 3 | 3.2 | √ | | | | | | |
| 13 | | | 3 | 3.2 | √ | | | | | | |
| 14 | | | 3 | 3.3 | √ | | | | | | |
| 15 | | | 3 | 3.3 | √ | | | | | | |
| 16 | | | 3 | 3.3 | √ | | | | | | |
| 17 | | | 3 | 3.3 | √ | | | | | | |

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|----|---|-----|---|
| 18 | 3 | 3.3 | √ |
| 19 | 3 | 3.4 | √ |
| 20 | 3 | 3.4 | √ |
| 21 | 3 | 3.4 | √ |
| 22 | 3 | 3.5 | √ |
| 23 | 3 | 3.5 | √ |
| 24 | 3 | 3.5 | √ |
| 25 | 4 | 4.1 | √ |
| 26 | 4 | 4.1 | √ |
| 27 | 4 | 4.1 | √ |
| 28 | 4 | 4.1 | √ |
| 29 | 4 | 4.1 | |

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|----|---|--|---|-----|---|--|--|--|--|--|--|--|--|
| 45 | | | 4 | 4.1 | √ | | | | | | | | |
| 46 | | | 4 | 4.1 | √ | | | | | | | | |
| 47 | | | 4 | 4.1 | √ | | | | | | | | |
| 48 | / | | 4 | 4.1 | √ | | | | | | | | |
| 49 | | | 4 | 4.1 | √ | | | | | | | | |
| 50 | | | 4 | 4.1 | √ | | | | | | | | |
| 51 | | | 4 | 4.1 | √ | | | | | | | | |
| 52 | | | 4 | 4.1 | √ | | | | | | | | |
| 53 | / | | 4 | 4.1 | √ | | | | | | | | |
| 54 | | | 4 | 4.1 | √ | | | | | | | | |
| 55 | | | 4 | 4.1 | √ | | | | | | | | |
| 56 | | | 4 | 4.1 | √ | | | | | | | | |
| 57 | | | 4 | 4.1 | √ | | | | | | | | |
| 58 | / | | 4 | 4.1 | √ | | | | | | | | |
| 59 | | | 4 | 4.1 | √ | | | | | | | | |
| 60 | | | 4 | 4.1 | √ | | | | | | | | |
| 61 | | | 4 | 4.1 | √ | | | | | | | | |
| 62 | | | 4 | 4.1 | √ | | | | | | | | |
| 63 | | | 4 | 4.1 | √ | | | | | | | | |
| 64 | | | 4 | 4.1 | √ | | | | | | | | |
| 65 | | | 4 | 4.1 | √ | | | | | | | | |
| 66 | / | | 4 | 4.1 | √ | | | | | | | | |
| 67 | | | 4 | 4.1 | √ | | | | | | | | |
| 68 | | | 4 | 4.1 | √ | | | | | | | | |
| 69 | | | 4 | 4.1 | √ | | | | | | | | |
| 70 | | | 4 | 4.1 | √ | | | | | | | | |
| 71 | | | 4 | 4.1 | √ | | | | | | | | |
| 72 | | | 4 | 4.1 | √ | | | | | | | | |
| 73 | | | 4 | 4.1 | √ | | | | | | | | |

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|---|------------|-----------|-------|----------|--------|----|----|----|------------|
| | | 40.70% | 0% | 0% | 0% | 0% | 0% | 0% | 40.70% |
| 3 | (t-CO2e/) | 2,163.79 | - | - | - | - | - | - | 2,163.79 |
| | | 1.61% | 0% | 0% | 0% | 0% | 0% | 0% | 1.61% |
| 4 | (t-CO2e/) | 39,458.00 | - | - | - | - | - | - | 77,102.84 |
| | | 29.39% | 0% | 0% | 0% | 0% | 0% | 0% | 57.42% |
| 5 | (t-CO2e/) | - | - | - | - | - | - | - | - |
| | | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 6 | (t-CO2e/) | - | - | - | - | - | - | - | - |
| | | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| | (t-CO2e/) | 96,387.22 | 2.26 | 0.006966 | 0.04 | - | - | - | 134,274.92 |
| | | 71.78% | 0.05% | 0% | 28.17% | 0% | 0% | 0% | 100% |

3.2.2

3.2

3.2

| | | | | | t-CO2e | (%) | | |
|---|--------|--|------------|------|-----------|--------|---|-----|
| 1 | | | 4,155.0 | M8 | 9.16 | 0.01% | 1 | 1.1 |
| 2 | | | 6,160.0 | L | 18.05 | 0.01% | 1 | 1.2 |
| 3 | | | 29,430.0 | KG | 92.48 | 0.07% | 1 | 1.3 |
| 4 | -R22 | | 6 | KG | 11.45 | 0.01% | 1 | 1.4 |
| 5 | -R404a | | 80.0 | KG | 166.43 | 0.12% | 1 | 1.4 |
| 6 | CH4 | | 123,945.0 | * | 59.13 | 0.04% | 1 | 1.4 |
| 7 | | | 95,829,544 | | 54,651.59 | 40.70% | 2 | 2.1 |
| 8 | | | 759,616 | t*KM | 114.09 | 0.08% | 3 | 3.1 |
| 9 | | | 13,406 | t*KM | 3.49 | 0.00% | 3 | 3.1 |

10

11,700

t*KM

0.33

0.00%

3

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|----|---|--|----------|----|-----------|--------|---|-----|
| 48 | / | | 22000 | kg | 68.24 | 0.05% | 4 | 4.1 |
| 49 | | | 941 | kg | 2.92 | 0.00% | 4 | 4.1 |
| 50 | | | 40680 | L | 62.81 | 0.05% | 4 | 4.1 |
| 51 | | | 44360 | L | 10.28 | 0.01% | 4 | 4.1 |
| 52 | | | 682955 | kg | 14,440.83 | 10.75% | 4 | 4.1 |
| 53 | / | | 76319 | kg | 236.74 | 0.18% | 4 | 4.1 |
| 54 | | | 8107 | kg | 25.15 | 0.02% | 4 | 4.1 |
| 55 | | | 10256 | kg | 28.72 | 0.02% | 4 | 4.1 |
| 56 | | | 10698.56 | kg | 19.47 | 0.01% | 4 | 4.1 |
| 57 | | | 629180 | kg | 1,258.36 | 0.94% | 4 | 4.1 |
| 58 | / | | 67378 | kg | 437.96 | 0.33% | 4 | 4.1 |
| 59 | | | 17775 | kg | 49.77 | 0.04% | 4 | 4.1 |
| 60 | | | 98712 | kg | 333.32 | 0.25% | 4 | 4.1 |
| 61 | | | 9669.4 | kg | 11.60 | 0.01% | 4 | 4.1 |
| 62 | | | 185625 | kg | 341.55 | 0.25% | 4 | 4.1 |
| 63 | | | 13175 | kg | 36.89 | 0.03% | 4 | 4.1 |
| 64 | | | 555042 | kg | 774.72 | 0.58% | 4 | 4.1 |
| 65 | | | 1210175 | kg | 2,946.78 | 2.19% | 4 | 4.1 |
| 66 | / | | 306608 | kg | 805.72 | 0.60% | 4 | 4.1 |
| 67 | | | 22426 | kg | 438.78 | 0.33% | 4 | 4.1 |
| 68 | | | 92000 | kg | 128.41 | 0.10% | 4 | 4.1 |
| 69 | | | 2329 | kg | 2.61 | 0.00% | 4 | 4.1 |
| 70 | | | 1440 | L | 0.61 | 0.00% | 4 | 4.1 |
| 71 | | | 13953.2 | kg | 14.23 | 0.01% | 4 | 4.1 |
| 72 | | | 1260 | kg | 2.64 | 0.00% | 4 | 4.1 |
| 73 | | | 261119 | kg | 506.31 | 0.38% | 4 | 4.1 |
| 74 | | | 1722 | kg | 3.17 | 0.00% | 4 | 4.1 |
| 75 | | | 5574 | kg | 5.57 | 0.00% | 4 | 4.1 |
| 76 | | | 475381 | kg | 874.70 | 0.65% | 4 | 4.1 |
| 77 | | | 9627 | kg | 9.82 | 0.01% | 4 | 4.1 |
| 78 | | | 3867.168 | kg | 3.87 | 0.00% | 4 | 4.1 |
| 79 | | | 3500 | kg | 2.98 | 0.00% | 4 | 4.1 |
| 80 | | | 28150 | kg | 12.38 | 0.01% | 4 | 4.1 |

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| 1 | | | | | 6 | 3 | 18 |
|----|---------|--|--|--|---|---|----|
| 2 | | | | | 6 | 2 | 12 |
| 3 | | | | | 6 | 1 | 6 |
| 4 | - R22 | | | | 3 | 1 | 3 |
| 5 | - R404a | | | | 3 | 2 | 6 |
| 6 | CH4 | | | | 3 | 5 | 15 |
| 7 | | | | | 6 | 2 | 12 |
| 8 | | | | | 3 | 2 | 6 |
| 9 | | | | | 3 | 2 | 6 |
| 10 | | | | | 3 | 5 | 15 |
| 11 | | | | | 3 | 1 | 3 |
| 12 | | | | | 3 | 2 | 6 |
| 13 | | | | | 3 | 2 | 6 |
| 14 | | | | | 1 | 2 | 2 |

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|----|---------|--|--|--|---|---|----|
| 15 | | | | | 1 | 5 | 5 |
| 16 | | | | | 1 | 1 | 1 |
| 17 | | | | | 1 | 2 | 2 |
| 18 | | | | | 1 | 2 | 2 |
| 19 | | | | | 1 | 2 | 2 |
| 20 | | | | | 1 | 2 | 2 |
| 21 | | | | | 1 | 5 | 5 |
| 22 | | | | | 1 | 2 | 2 |
| 23 | | | | | 1 | 2 | 2 |
| 24 | | | | | 1 | 5 | 5 |
| 25 | | | | | 6 | 2 | 12 |
| 26 | | | | | 6 | 1 | 6 |
| 27 | | | | | 6 | 1 | 6 |
| 28 | | | | | 3 | 5 | 15 |
| 29 | | | | | 3 | 5 | 15 |
| 30 | | | | | 3 | 5 | 15 |
| 31 | | | | | 3 | 1 | 3 |
| 32 | | | | | 3 | 1 | 3 |
| 33 | 15*0.8(| | | | 6 | 5 | 30 |
| 34 | 1700m | | | | 6 | 1 | 6 |
| 35 | | | | | 3 | 1 | 3 |
| 36 | | | | | 3 | 1 | 3 |
| 37 | | | | | 6 | 1 | 6 |
| 38 | | | | | 6 | 4 | 24 |
| 39 | | | | | 3 | 1 | 3 |
| 40 | | | | | 3 | 5 | 15 |
| 41 | | | | | 6 | 5 | 30 |
| 42 | | | | | 6 | 5 | 30 |
| 43 | | | | | 6 | 5 | 30 |
| 44 | | | | | 6 | 5 | 30 |
| 45 | | | | | 3 | 5 | 15 |
| 46 | | | | | 6 | 5 | 30 |
| 47 | | | | | 6 | 4 | 24 |
| 48 | / | | | | 3 | 5 | 15 |
| 49 | | | | | 3 | 5 | 15 |
| 50 | | | | | 6 | 5 | 30 |
| 51 | | | | | 6 | 1 | 6 |
| 52 | | | | | 6 | 1 | 6 |
| 53 | / | | | | 3 | 5 | 15 |

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|----|---|--|--|--|---|---|----|
| 54 | | | | | 3 | 5 | 15 |
| 55 | | | | | 3 | 5 | 15 |
| 56 | | | | | 6 | 5 | 30 |
| 57 | | | | | 3 | 5 | 15 |
| 58 | / | | | | 6 | 5 | 30 |
| 59 | | | | | 3 | 5 | 15 |
| 60 | | | | | 3 | 5 | 15 |
| 61 | | | | | 6 | 5 | 30 |
| 62 | | | | | 3 | 5 | 15 |
| 63 | | | | | 6 | 5 | 30 |
| 64 | | | | | 6 | 1 | 6 |
| 65 | | | | | 6 | 1 | 6 |
| 66 | / | | | | 6 | 1 | 6 |
| 67 | | | | | 6 | 1 | 6 |
| 68 | | | | | 6 | 1 | 6 |
| 69 | | | | | 3 | 1 | 3 |
| 70 | | | | | 3 | 1 | 3 |
| 71 | | | | | 3 | 1 | 3 |
| 72 | | | | | 3 | 1 | 3 |
| 73 | | | | | 6 | 1 | 6 |
| 74 | | | | | 3 | 5 | 15 |
| 75 | | | | | 6 | 5 | 30 |
| 76 | | | | | 6 | 1 | 6 |
| 77 | | | | | 3 | 1 | 3 |
| 78 | | | | | 3 | 5 | 15 |
| 79 | | | | | 6 | 2 | 12 |
| 80 | | | | | 6 | 2 | 12 |

2022

1 -

GHG = ×

kg m³

kWh

t*km . km .

kg

kg

1 0.84kg/L

2 0.775kg/L GB17930-2016 2 V

2 - CH4 :

= BOD × B₀ × MCF × (1 -)

BOD 50g/ / BOD 40-60g/

BOD 50g/

B₀ B₀ BOD B₀ 0.6 kg CH₄ /kg BOD

MCF MCF MCF=0.6 IPCC 2006 6 6.2

6.3

/ 5%

3 - :

GHG = × × GWP *8%

IPCC

8%

1 GWP IPCC2021

5.2.3

IPCC

—6 —3 —1

/ —6 / —5 —4 —3

—2 —1

| | |
|----|-------|
| 1. | 1~6 |
| 2. | 7~12 |
| 3. | 13~18 |
| 4. | 19~24 |
| 5. | 25~30 |
| 6. | 31~36 |

1> 1.4

2> 1.5

3> 4.1

| | | | | | | |
|----|-----|-----|-----|---|--|-----|
| 4> | 4 | | GHG | 5 | | GHG |
| 6 | GHG | GHG | | | | |

7.1.1

7.1.2

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6 2025-2030

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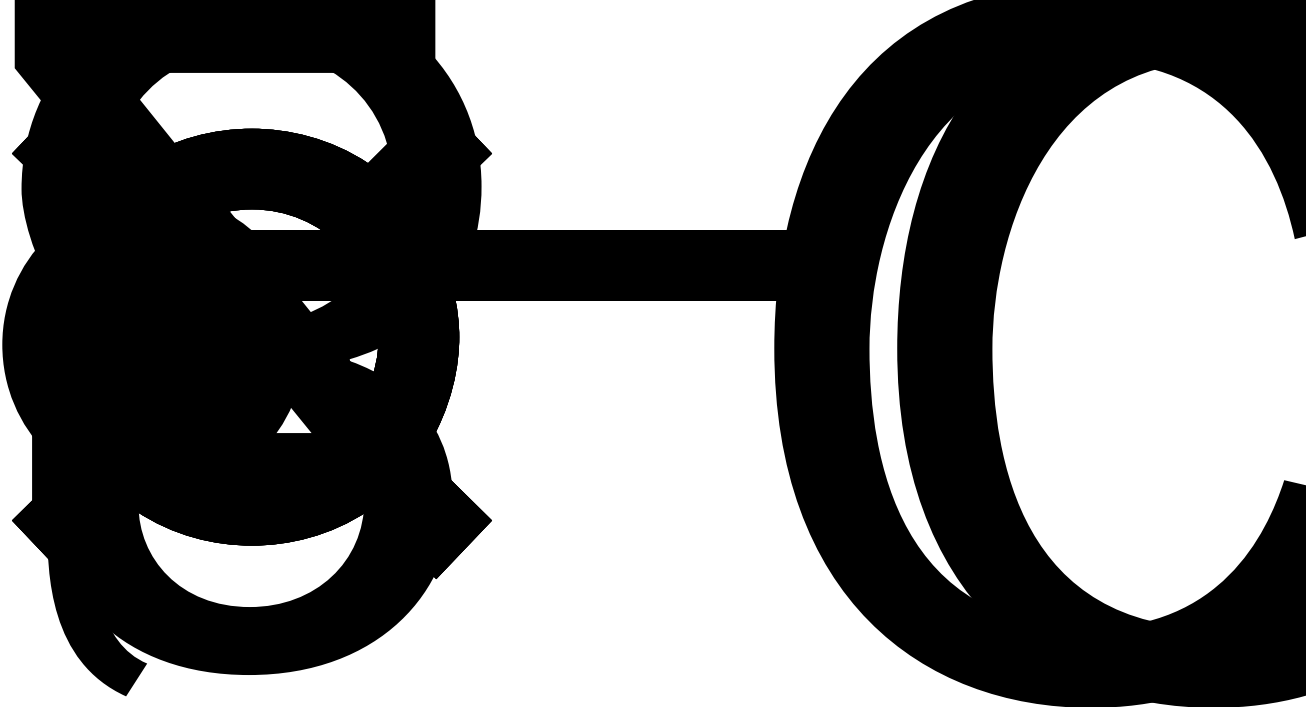
2024

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APPENDIX

| | | | |
|---|--|------|----|
| 1 | ISO14064-1-2018 | | |
| 2 | GB/T 2589-2020 | | |
| 3 | 2006 IPCC Guidelines for National Greenhouse Gas Inventories | | |
| 4 | Greenhouse Gas Protocol, Corporate Accounting and Reporting Standard revised | | |
| 5 | IPCC2021 6 | | |
| 6 | GB17930-2016 | | |
| 7 | | | |
| 8 | 2022 | 2024 | 33 |
| 9 | 2017 | | |

5



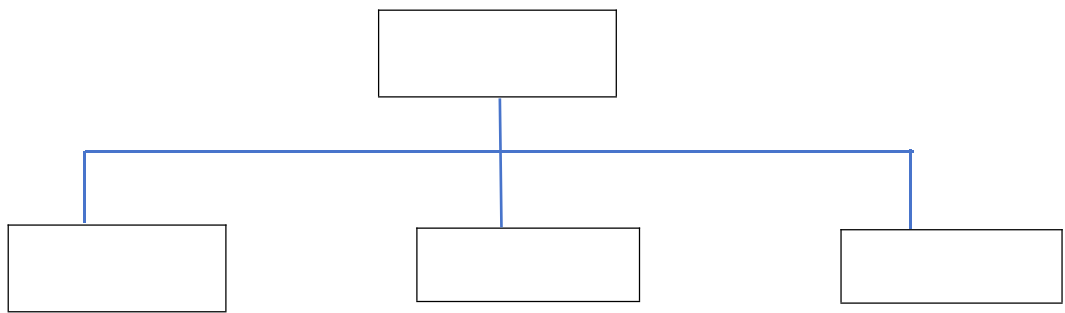
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| 7.1.1 | | <i>16</i> |
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|----|--------|--------|
| 1 | 1.20 | 0.02% |
| 2 | 0.67 | 0.01% |
| 3 | 0.08 | 0.00% |
| 4 | 10.91 | 0.18% |
| 5 | 794.82 | 13.17% |
| 6 | 12.87 | 0.21% |
| 7 | 8.64 | 0.14% |
| 8 | 0.40 | 0.01% |
| 9 | 2.70 | 0.04% |
| 10 | 2.24 | 0.04% |
| 11 | 4.59 | 0.08% |
| 12 | 4.92 | 0.08% |
| 13 | 0.10 | 0.00% |
| 14 | 0.03 | 0.00% |
| 15 | 0.04 | 0.00% |
| 16 | 0.86 | 0.01% |
| 17 | 0.03 | 0.00% |
| 18 | 0.06 | 0.00% |
| 19 | | |

| | | | | | | | | |
|----|--|--|--|--|----------|--------|--|--|
| 22 | | | | | 9.31 | 0.15% | | |
| 23 | | | | | 115.79 | 1.92% | | |
| 24 | | | | | 4,720.18 | 78.22% | | |
| 25 | | | | | 1.82 | 0.03% | | |
| 26 | | | | | 6.41 | 0.11% | | |
| 27 | | | | | 11.57 | 0.19% | | |
| 28 | | | | | 136.83 | 2.27% | | |
| 29 | | | | | 65.33 | 1.08% | | |
| 30 | | | | | 71.50 | 1.18% | | |
| 31 | | | | | 29.88 | 0.50% | | |
| 32 | | | | | 16.60 | 0.28% | | |
| 33 | | | | | 3.82 | 0.06% | | |

2024

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2022

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BOD

40-60g/

BOD

50g/

o

o

o

4

IPCC

1> 1.4

2> 1.5

3> 4.1

4>

4

GHG

5

GHG

6

GHG

GHG

7.1.1

7.1.2

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6 2025-2030

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| 3.2.2 | | 11 |
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| | | 16 |
| 7.1.1 | | |
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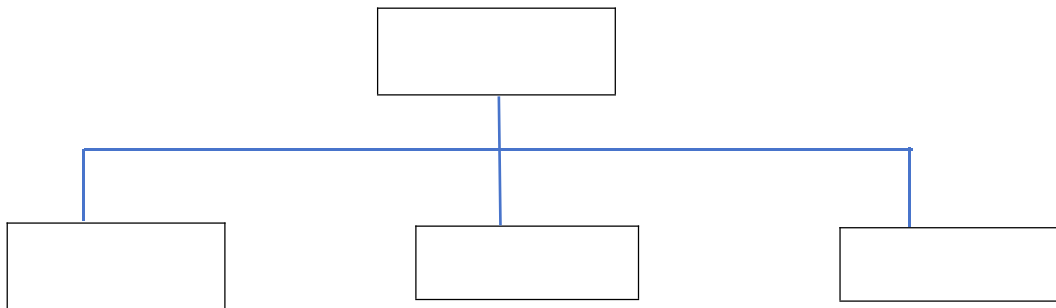
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| 1,090.152 | 74.25% |
| 4.550 | 0.31% |
| 1.884 | 0.13% |
| 0.228 | 0.02% |
| 0.778 | 0.05% |
| 3.811 | 0.26% |
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| 1.181 | 0.08% |
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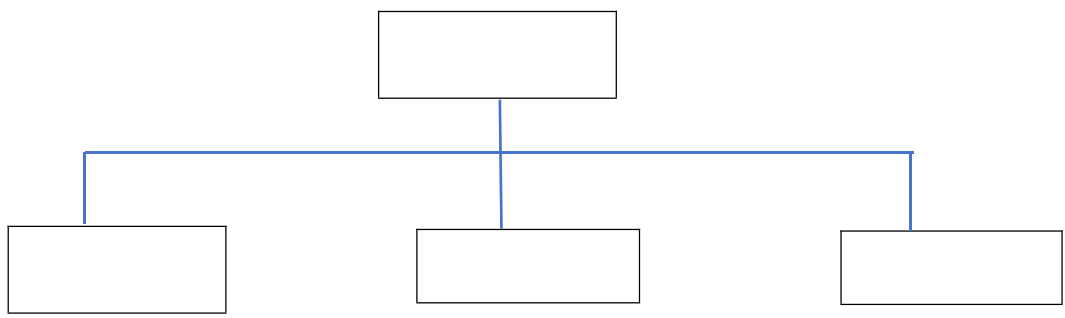
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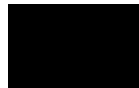
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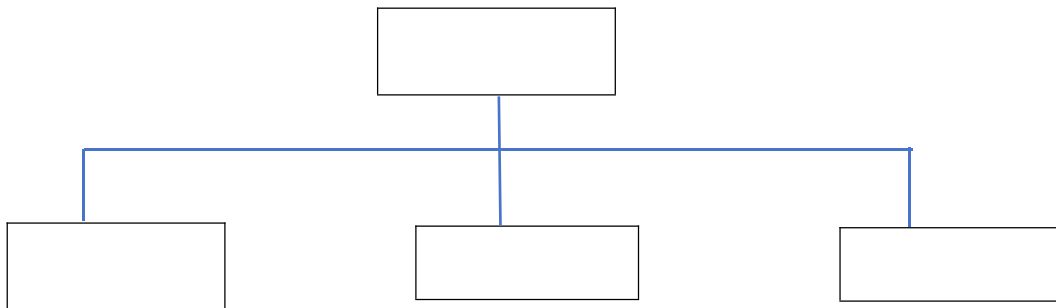
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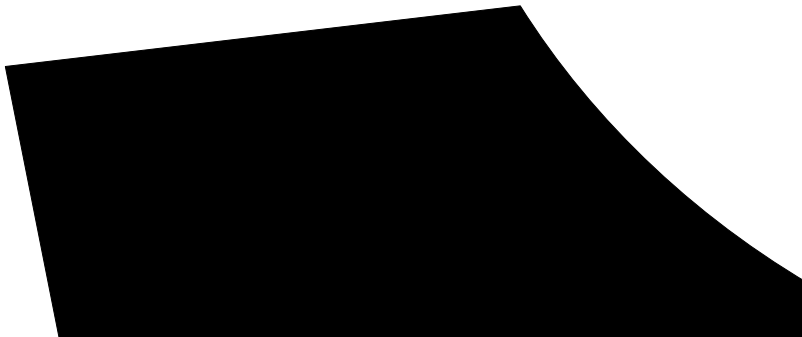
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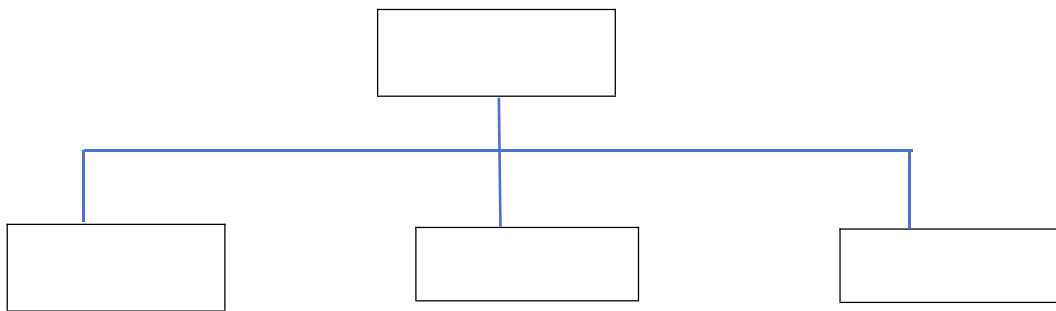
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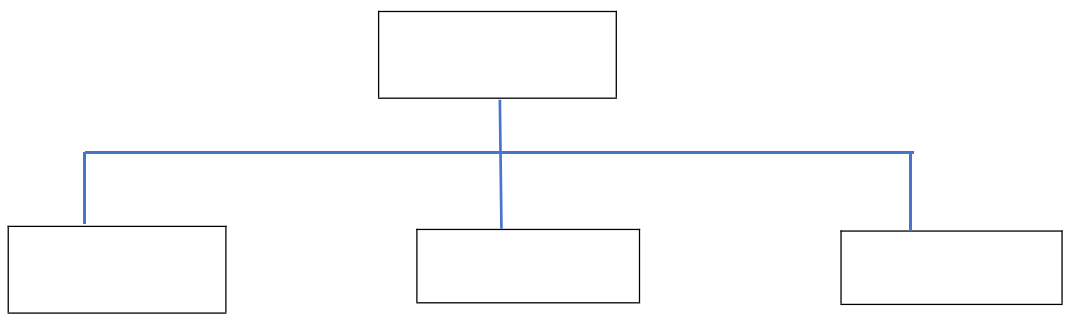
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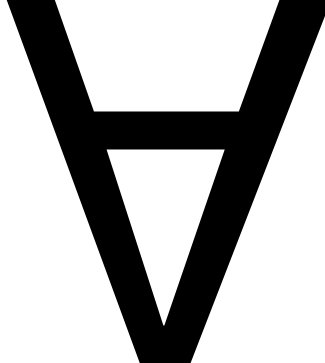
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