

| 2014 million manhours worked : 2,549781 | | | | 1,071370 | | | 0,274769 | | | 0,791333 | | | 0,412309 | | | 1 | | |
|---|--|----------------|---|------------------|-------------|---|-----------|-------------|---|-----------|-------------|---|-----------|-------------|---|---------------------|-------------|---|
| scope | item | unit | conversionfactor unit to kg CO2-eq. | Arendonk + Group | | | Balén | | | Hoboken | | | Zary | | | Newcastle-Upon-Tyne | | |
| | | | | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour |
| 1 | gas consumption for heating natural gas | m ³ | 1,89 | 31.606 | 59,73 | 55,76 | 497.915 | 941,06 | 3424,91 | 461.064 | 871,41 | 1101,19 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for heating propane | L | 1,725 | | 0,00 | 0,00 | 200.060 | 345,10 | 1255,98 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding propane | kg | 2,974 | 5.463 | 16,25 | 15,16 | 5.835 | 17,35 | 63,16 | 56.358 | 167,62 | 211,82 | 10.989 | 32,68 | 79,27 | | 0,00 | 0,00 |
| 1 | gas consumption for welding acetylene | kg | 3,385 | 19.095 | 64,64 | 60,33 | 1.995 | 6,75 | 24,58 | 20.425 | 69,14 | 87,37 | 1.488 | 5,04 | 12,22 | | 0,00 | 0,00 |
| 1 | gas consumption for welding CO ₂ + Euromix (15% CO ₂) | kg | 1 | 23.473 | 23,47 | 21,91 | 30.153 | 30,15 | 109,74 | 18.275 | 18,28 | 23,09 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | fuel consumption for transport of passenger diesel | L | 3,2 | 307.826 | 985,04 | 919,42 | 23.051 | 73,76 | 268,45 | 28.100 | 89,92 | 113,63 | 45.000 | 144,00 | 349,25 | | 0,00 | 0,00 |
| 1 | fuel consumption for transport of goods diesel + fuel oil | L | 3,2 | 363.001 | 1161,60 | 1084,22 | 24.743 | 79,18 | 288,16 | 147.866 | 473,17 | 597,94 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | fuel consumption for heating fuel oil | L | 3,185 | 254.151 | 809,47 | 755,55 | 59.068 | 188,13 | 684,69 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity gray | kWh | 0,526 | 2.559.184 | 1346,13 | 1256,46 | 1.294.624 | 680,97 | 2478,34 | 4.599.174 | 2419,17 | 3057,08 | 2.376.819 | 1250,21 | 3032,21 | | 0,00 | 0,00 |
| 2 | electricity wind | kWh | 0 | 1.582.790 | 0,00 | 0,00 | 800.692 | 0,00 | 0,00 | 2.844.472 | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity water | kWh | 0 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity biomass | kWh | 0,075 | 195.626 | 14,67 | 13,69 | 98.962 | 7,42 | 27,01 | 351.564 | 26,37 | 33,32 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity thermal | kWh | 0 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity solar | kWh | 0 | 17.465 | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | city heating browncoal | Gj | 64,3 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 4.616 | 296,81 | 719,87 | | 0,00 | 0,00 |
| 2 | business travel - plane <700km | km | 0,297 | 180.568 | 53,63 | 50,06 | 5.384 | 1,60 | 5,82 | 3.620 | 1,08 | 1,36 | 28.266 | 8,40 | 20,36 | | 0,00 | 0,00 |
| 2 | business travel - plane 700-2500km | km | 0,2 | 84.524 | 16,90 | 15,78 | 5.336 | 1,07 | 3,88 | 1.530 | 0,31 | 0,39 | 7.200 | 1,44 | 3,49 | | 0,00 | 0,00 |
| 2 | business travel - plane >2500km | km | 0,147 | 410.880 | 60,40 | 56,38 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - train stoptrain / intercity | km | 0,024 | 8.088 | 0,19 | 0,18 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - train high-speed | km | 0,026 | 86.608 | 2,25 | 2,10 | | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |

white applicable, OK yellow applicable, no data or doubtful grey not applicable orange incomplete blue transposed data of 2013

| | | TOTAL | | Arendonk (incl. Group) | | | Balén | | | Hoboken | | | Zary | | | Newcastle Upon Tyne | | |
|------------------------------------|--------------------------------|---------------|-----------------|------------------------|---------------|---|----------------|---------------|---|----------------|---------------|---|----------------|---------------|---|---------------------|--------------|---|
| | | % CO2-eq. | ton CO2-eq. | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour |
| SCOPE 1 | gas consumption for heating | 17,24% | 2217,31 | 59,73 | 1,29% | 55,76 | 1286,16 | 54,21% | 4680,89 | 871,41 | 21,07% | 1101,19 | 0,00 | 0,00% | 0,00 | 0,00 | ##### | 0,00 |
| | gas consumption for welding | 3,51% | 451,37 | 104,36 | 2,26% | 97,40 | 54,26 | 2,29% | 197,48 | 255,03 | 6,17% | 322,28 | 37,72 | 2,17% | 91,48 | 0,00 | ##### | 0,00 |
| | fuel consumption for transport | 23,38% | 3006,68 | 2146,65 | 46,52% | 2003,65 | 152,94 | 6,45% | 556,61 | 563,09 | 13,61% | 711,57 | 144,00 | 8,28% | 349,25 | 0,00 | ##### | 0,00 |
| | fuel consumption for heating | 7,76% | 997,60 | 809,47 | 17,54% | 755,55 | 188,13 | 7,93% | 684,69 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | ##### | 0,00 |
| | SUM SCOPE 1 | 51,88% | 6672,95 | 3120,21 | 67,62% | 2912,35 | 1681,50 | 70,87% | 6119,67 | 1689,53 | 40,85% | 2135,05 | 181,72 | 10,45% | 440,74 | 0,00 | ##### | 0,00 |
| percentage of total scope 1 | | | | 46,76% | | | 25,20% | | | 25,32% | | | 2,72% | | | 0,00% | | |
| SCOPE 2 | electricity - gray | 44,29% | 5696,48 | 1346,13 | 29,17% | 1256,46 | 680,97 | 28,70% | 2478,34 | 2419,17 | 58,48% | 3057,08 | 1250,21 | 71,91% | 3032,21 | 0,00 | ##### | 0,00 |
| | electricity - green | 0,38% | 48,46 | 14,67 | 0,32% | 13,69 | 7,42 | 0,31% | 27,01 | 26,37 | 0,64% | 33,32 | 0,00 | 0,00% | 0,00 | 0,00 | ##### | 0,00 |
| | city heating - other | 2,31% | 296,81 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 296,81 | 17,07% | 719,87 | 0,00 | ##### | 0,00 |
| | business travel | 1,14% | 147,26 | 133,38 | 2,89% | 124,49 | 2,67 | 0,11% | 9,70 | 1,38 | 0,03% | 1,75 | 9,84 | 0,57% | 23,85 | 0,00 | ##### | 0,00 |
| | SUM SCOPE 2 | 48,12% | 6189,01 | 1494,18 | 32,38% | 1394,65 | 691,06 | 29,13% | 2515,06 | 2446,91 | 59,15% | 3092,14 | 1556,85 | 89,55% | 3775,93 | 0,00 | ##### | 0,00 |
| percentage of total scope 2 | | | | 24,14% | | | 11,17% | | | 39,54% | | | 25,16% | | | 0,00% | | |
| SUM TOTAL | | | 12861,96 | 4614,39 | | 4307,00 | 2372,56 | | 8634,73 | 4136,45 | | 5227,19 | 1738,57 | | 4216,67 | 0,00 | | 0,00 |
| percentage of total | | | | 35,88% | | | 18,45% | | | 32,16% | | | 13,52% | | | 0,00% | | |

| 2016 million manhours worked : 1,194850 | | | | 0,473850 | | | 0,141 | | | 0,37 | | | 0,21 | | | 1 | | |
|---|---|------|---|------------------|-------------|---------------------------------|---------|-------------|---------------------------------|-----------|-------------|---------------------------------|-----------|-------------|---------------------------------|---------------------|-------------|---------------------------------|
| scope | item | unit | conversionfactor unit to kg CO2-eq. | Arendonk + Group | | | Balén | | | Hoboken | | | Zary | | | Newcastle-Upon-Tyne | | |
| | | | | data | ton CO2-eq. | kg CO2-eq. / 1000 manhour | data | ton CO2-eq. | kg CO2-eq. / 1000 manhour | data | ton CO2-eq. | kg CO2-eq. / 1000 manhour | data | ton CO2-eq. | kg CO2-eq. / 1000 manhour | data | ton CO2-eq. | kg CO2-eq. / 1000 manhour |
| 1 | gas consumption for heating <i>natural gas</i> | m³ | 1,89 | 18.480 | 34,93 | 73,71 | 47.022 | 88,87 | 630,29 | 354.698 | 670,38 | 1811,84 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for heating <i>propane</i> | L | 1,725 | | 0,00 | 0,00 | 213.826 | 368,85 | 2615,96 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>propane</i> | kg | 2,974 | 83 | 0,25 | 0,52 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | 3.399 | 10,11 | 48,14 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>acetylene</i> | kg | 3,385 | 5.192 | 17,57 | 37,09 | 68 | 0,23 | 1,64 | 1.254 | 4,24 | 11,47 | 1.494 | 5,06 | 24,08 | | 0,00 | 0,00 |
| | gas consumption for welding <i>propylene (Apachi)</i> | kg | 3,356 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>CO2 + Euromix (15% CO2)</i> | kg | 1 | 12.111 | 12,11 | 25,56 | 800 | 0,80 | 5,67 | 9.611 | 9,61 | 25,98 | 7.564 | 7,56 | 36,02 | | 0,00 | 0,00 |
| 1 | fuel consumption for transport of <i>passenger diesel</i> | L | 3,2 | 116.324 | 372,24 | 785,56 | 11.333 | 36,26 | 257,20 | 12.329 | 39,45 | 106,63 | 18.217 | 58,29 | 277,59 | | 0,00 | 0,00 |
| 1 | fuel consumption for transport of <i>diesel + fuel oil</i> | L | 3,2 | 20.737 | 66,36 | 140,04 | 7.264 | 23,24 | 164,86 | 241.689 | 773,40 | 2090,28 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | fuel consumption for heating <i>fuel oil</i> | L | 3,185 | 205.918 | 655,85 | 1384,09 | 91.194 | 290,45 | 2059,95 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>gray</i> | kWh | 0,526 | 1.224.178 | 643,92 | 1358,91 | 619.118 | 325,66 | 2309,62 | 3.080.898 | 1620,55 | 4379,87 | 1.410.000 | 741,66 | 3531,71 | | 0,00 | 0,00 |
| 2 | electricity <i>wind</i> | kWh | 0 | 850.284 | 0,00 | 0,00 | 430.024 | 0,00 | 0,00 | 2.139.916 | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>water</i> | kWh | 0 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>biomass</i> | kWh | 0,075 | 9.511 | 0,71 | 1,51 | 4.810 | 0,36 | 2,56 | 23.936 | 1,80 | 4,85 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>thermal</i> | kWh | 0 | 3.805 | 0,00 | 0,00 | 1.924 | 0,00 | 0,00 | 9.576 | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>solar</i> | kWh | 0 | 56.796 | 0,00 | 0,00 | 24.050 | 0,00 | 0,00 | 119.678 | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | city heating <i>browncoal</i> | Gj | 64,3 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 4.635 | 298,00 | 1419,07 | | 0,00 | 0,00 |
| 2 | business travel - plane <i><700km</i> | km | 0,297 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - plane <i>700-2500km</i> | km | 0,2 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - plane <i>>2500km</i> | km | 0,147 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - train <i>stoptrain / intercity</i> | km | 0,024 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - train <i>high-speed</i> | km | 0,026 | - | 0,00 | 0,00 | | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |

white applicable, OK yellow applicable, no data or doubtful grey not applicable orange incomplete blue transposed data of 2015

| SCOPE 1 | TOTAL | Arendonk (incl. Group) | | | | | Balén | | | Hoboken | | | Zary | | | Newcastle Upon Tyne | | |
|----------------------------|------------------------------------|------------------------|-------------|-------------|-----------|------------------------------|-------------|-----------|------------------------------|-------------|-----------|------------------------------|-------------|-----------|------------------------------|---------------------|-----------|------------------------------|
| | | % CO2-eq. | ton CO2-eq. | ton CO2-eq. | % CO2-eq. | kg CO2-eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO2-eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO2-eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO2-eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO2-eq. / 1000 manhour |
| | gas consumption for heating | 16,20% | 1163,03 | 34,93 | 1,94% | 73,71 | 457,72 | 40,34% | 3246,25 | 670,38 | 21,49% | 1811,84 | 0,00 | 0,00% | 0,00 | 0,00 | ##### | 0,00 |
| | gas consumption for welding | 0,94% | 67,55 | 29,93 | 1,66% | 63,17 | 1,03 | 0,09% | 7,32 | 13,86 | 0,44% | 37,45 | 22,73 | 2,03% | 108,24 | 0,00 | ##### | 0,00 |
| | fuel consumption for transport | 19,07% | 1369,26 | 438,60 | 24,31% | 925,60 | 59,51 | 5,24% | 422,05 | 812,86 | 26,06% | 2196,91 | 58,29 | 5,20% | 277,59 | 0,00 | ##### | 0,00 |
| | fuel consumption for heating | 13,18% | 946,30 | 655,85 | 36,36% | 1384,09 | 290,45 | 25,60% | 2059,95 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | ##### | 0,00 |
| | SUM SCOPE 1 | 49,40% | 3546,14 | 1159,30 | 64,27% | 2446,56 | 808,72 | 71,27% | 5735,57 | 1497,09 | 47,99% | 4046,20 | 81,02 | 7,23% | 385,83 | 0,00 | ##### | 0,00 |
| | percentage of total scope 1 | | | 32,69% | | | 22,81% | | | 42,22% | | | 2,28% | | | 0,00% | | |
| SCOPE 2 | electricity - gray | 46,41% | 3331,79 | 643,92 | 35,70% | 1358,91 | 325,66 | 28,70% | 2309,62 | 1620,55 | 51,95% | 4379,87 | 741,66 | 66,18% | 3531,71 | 0,00 | ##### | 0,00 |
| | electricity - green | 0,04% | 2,87 | 0,71 | 0,04% | 1,51 | 0,36 | 0,03% | 2,56 | 1,80 | 0,06% | 4,85 | 0,00 | 0,00% | 0,00 | 0,00 | ##### | 0,00 |
| | city heating - other | 4,15% | 298,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 298,00 | 26,59% | 1419,07 | 0,00 | ##### | 0,00 |
| | business travel | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | ##### | 0,00 |
| | SUM SCOPE 2 | 50,60% | 3632,66 | 644,63 | 35,73% | 1360,41 | 326,02 | 28,73% | 2312,18 | 1622,35 | 52,01% | 4384,72 | 1039,66 | 92,77% | 4950,78 | 0,00 | ##### | 0,00 |
| | percentage of total scope 2 | | | 17,75% | | | 8,97% | | | 44,66% | | | 28,62% | | | 0,00% | | |
| | SUM TOTAL | | 7178,80 | 1803,93 | | 3806,97 | 1134,73 | | 8047,75 | 3119,44 | | 8430,92 | 1120,69 | | 5336,61 | 0,00 | | 0,00 |
| percentage of total | | | 25,13% | | | 15,81% | | | 43,45% | | | 15,61% | | | 0,00% | | | |

| 2017 million manhours worked : 2,419511 | | | | 0,939831 | | | 0,211644 | | | 0,54743 | | | 0,36326 | | | 0,357346 | | |
|---|---|----------------|---|------------------|-------------|--|-----------|-------------|--|-----------|-------------|--|-----------|-------------|--|---------------------|-------------|--|
| scope | item | unit | conversionfactor unit to kg CO2-eq. | Arendonk + Group | | | Balen | | | Hoboken | | | Zary | | | Newcastle-Upon-Tyne | | |
| | | | | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour |
| 1 | gas consumption for heating <i>natural gas</i> | m ³ | 1,89 | 27.084 | 51,19 | 54,47 | 44.940 | 84,94 | 401,32 | 330.314 | 624,29 | 1140,41 | | 0,00 | 0,00 | 15.118 | 28,57 | 79,96 |
| 1 | gas consumption for heating <i>propane</i> | L | 1,725 | | 0,00 | 0,00 | 223.988 | 386,38 | 1825,61 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>propane</i> | kg | 2,974 | 13.910 | 41,37 | 44,02 | 7.400 | 22,01 | 103,98 | 17.134 | 50,96 | 93,09 | 2.904 | 8,64 | 23,78 | 26.499 | 78,81 | 220,55 |
| 1 | gas consumption for welding <i>acetylene</i> | kg | 3,385 | 28.761 | 97,36 | 103,59 | 150 | 0,51 | 2,40 | 4.802 | 16,25 | 29,69 | 1.182 | 4,00 | 11,01 | | 0,00 | 0,00 |
| | gas consumption for welding <i>propylene (Apachi)</i> | kg | 3,356 | 4.185 | 14,04 | 14,94 | 500 | 1,68 | 7,93 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>CO₂ + Euromix (15% CO₂)</i> | kg | 1 | 27.984 | 27,98 | 29,78 | 23.464 | 23,46 | 110,87 | 8.794 | 8,79 | 16,06 | 4.365 | 4,37 | 12,02 | 7.511 | 7,51 | 21,02 |
| 1 | fuel consumption for transport of <i>passenger diesel</i> | L | 3,2 | 116.794 | 373,74 | 397,67 | 8.477 | 27,13 | 128,17 | 12.216 | 39,09 | 71,41 | 29.575 | 94,64 | 260,53 | | 0,00 | 0,00 |
| 1 | fuel consumption for transport of <i>goods diesel + fuel oil</i> | L | 3,2 | 212.756 | 680,82 | 724,40 | 12.199 | 39,04 | 184,45 | 239.193 | 765,42 | 1398,20 | | 0,00 | 0,00 | 551.315 | 1764,21 | 4936,98 |
| 1 | fuel consumption for heating <i>fuel oil</i> | L | 3,185 | 283.021 | 901,42 | 959,13 | 90.939 | 289,64 | 1368,53 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>gray</i> | kWh | 0,649 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 1.427.610 | 926,52 | 2550,57 | 1.420.205 | 921,71 | 2579,33 |
| 2 | electricity <i>wind</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 896.971 | 0,00 | 0,00 |
| 2 | electricity <i>water</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>biomass</i> | kWh | 0,075 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 94.037 | 7,05 | 19,74 |
| 2 | electricity <i>thermal</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>solar</i> | kWh | 0 | 2.899.045 | 0,00 | 0,00 | 1.971.713 | 0,00 | 0,00 | 4.602.465 | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | city heating <i>browncoal</i> | Gj | 64,3 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 3.985 | 256,26 | 705,44 | | 0,00 | 0,00 |
| 2 | business travel - plane <i><700km</i> | km | 0,297 | 91.159 | 27,07 | 28,81 | 702 | 0,21 | 0,99 | 13.562 | 4,03 | 7,36 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - plane <i>700-2500km</i> | km | 0,2 | 528.782 | 105,76 | 112,53 | 3.764 | 0,75 | 3,56 | 61.889 | 12,38 | 22,61 | 2.576 | 0,52 | 1,42 | | 0,00 | 0,00 |
| 2 | business travel - plane <i>>2500km</i> | km | 0,147 | 540.061 | 79,39 | 84,47 | 38.030 | 5,59 | 26,41 | 100.950 | 14,84 | 27,11 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - train <i>stoptrain / intercity</i> | km | 0,024 | 4.459 | 0,11 | 0,11 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - train <i>high-speed</i> | km | 0,026 | 80.690 | 2,10 | 2,23 | | 0,00 | 0,00 | 5.940 | 0,15 | 0,28 | | 0,00 | 0,00 | | 0,00 | 0,00 |

white applicable, OK yellow applicable, no data or doubtful grey not applicable orange incomplete blue transposed data of 2016

| SCOPE 1 | item | TOTAL | | Arendonk (incl. Group) | | | Balen | | | Hoboken | | | Zary | | | Newcastle Upon Tyne | | |
|----------------------------|------------------------------------|---------------|----------------|------------------------|---------------|---|---------------|---------------|---|----------------|---------------|---|----------------|----------------|---|---------------------|----------------|---|
| | | % CO2-eq. | ton CO2-eq. | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour |
| | gas consumption for heating | 13,17% | 1175,37 | 51,19 | 2,13% | 54,47 | 471,32 | 53,48% | 2226,93 | 624,29 | 40,64% | 1140,41 | 0,00 | 0,00% | 0,00 | 28,57 | 1,02% | 79,96 |
| | gas consumption for welding | 4,57% | 407,74 | 180,75 | 7,52% | 192,33 | 47,66 | 5,41% | 225,17 | 76,01 | 4,95% | 138,84 | 17,00 | 1,31% | 46,81 | 86,32 | 3,07% | 241,57 |
| | fuel consumption for transport | 42,41% | 3784,08 | 1054,56 | 43,90% | 1122,07 | 66,16 | 7,51% | 312,62 | 804,51 | 52,37% | 1469,61 | 94,64 | 7,31% | 260,53 | 1764,21 | 62,83% | 4936,98 |
| | fuel consumption for heating | 13,35% | 1191,06 | 901,42 | 37,52% | 959,13 | 289,64 | 32,86% | 1368,53 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 |
| | SUM SCOPE 1 | 73,50% | 6558,26 | 2187,92 | 91,07% | 2328,00 | 874,78 | 99,26% | 4133,25 | 1504,81 | 97,96% | 2748,86 | 111,64 | 8,62% | 307,34 | 1879,10 | 66,92% | 5258,50 |
| | percentage of total scope 1 | | | 33,36% | | | 13,34% | | | 22,95% | | | 1,70% | | | 28,65% | | |
| SCOPE 2 | electricity - gray | 20,71% | 1848,23 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 926,52 | 71,55% | 2550,57 | 921,71 | 32,83% | 2579,33 |
| | electricity - green | 0,08% | 7,05 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 7,05 | 0,25% | 19,74 |
| | city heating - other | 2,87% | 256,26 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 256,26 | 19,79% | 705,44 | 0,00 | 0,00% | 0,00 |
| | business travel | 2,83% | 252,89 | 214,42 | 8,93% | 228,15 | 6,55 | 0,74% | 30,96 | 31,40 | 2,04% | 57,36 | 0,52 | 0,04% | 1,42 | 0,00 | 0,00% | 0,00 |
| | SUM SCOPE 2 | 26,50% | 2364,43 | 214,42 | 8,93% | 228,15 | 6,55 | 0,74% | 30,96 | 31,40 | 2,04% | 57,36 | 1183,29 | 91,38% | 3257,42 | 928,77 | 33,08% | 2599,07 |
| | percentage of total scope 2 | | | 9,07% | | | 0,28% | | | 1,33% | | | 50,05% | | | 39,28% | | |
| | SUM TOTAL | | 8922,69 | 2402,35 | | 2556,15 | 881,33 | | 4164,20 | 1536,21 | | | 2806,22 | 1294,93 | | 3564,76 | 2807,87 | |
| percentage of total | | | | 26,92% | | | 9,88% | | | 17,22% | | | 14,51% | | | 31,47% | | |

| 2018 million manhours worked : 2,373789 | | | | 0,647428 | | | 0,179301 | | | 0,693512 | | | 0,353416 | | | 0,500132 | | |
|---|---|----------------|---|------------------|-------------|--|-----------|-------------|--|-----------|-------------|--|-----------|-------------|--|---------------------|-------------|--|
| scope | item | unit | conversionfactor unit to kg CO2-eq. | Arendonk + Group | | | Balen | | | Hoboken | | | Zary | | | Newcastle-Upon-Tyne | | |
| | | | | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour |
| 1 | gas consumption for heating <i>natural gas</i> | m ³ | 1,89 | 19.221 | 36,33 | 56,11 | 39.728 | 75,09 | 418,77 | 312.821 | 591,23 | 852,52 | | 0,00 | 0,00 | 9.371 | 17,71 | 35,41 |
| 1 | gas consumption for heating <i>propane</i> | L | 1,725 | | 0,00 | 0,00 | 281.244 | 485,15 | 2705,76 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>propane</i> | kg | 2,974 | 8.634 | 25,68 | 39,66 | 1.215 | 3,61 | 20,15 | 44.797 | 133,23 | 192,11 | 3.102 | 9,23 | 26,10 | 16.426 | 48,85 | 97,68 |
| 1 | gas consumption for welding <i>acetylene</i> | kg | 3,385 | 2.772 | 9,38 | 14,49 | - | 0,00 | 0,00 | 2.408 | 8,15 | 11,75 | 1.152 | 3,90 | 11,03 | | 0,00 | 0,00 |
| | gas consumption for welding <i>propylene (Apachi)</i> | kg | 3,356 | 4.909 | 16,47 | 25,45 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>CO₂ + Euromix (15% CO₂)</i> | kg | 1 | 18.226 | 18,23 | 28,15 | 16.024 | 16,02 | 89,37 | 18.407 | 18,41 | 26,54 | 5.691 | 5,69 | 16,10 | 4.656 | 4,66 | 9,31 |
| 1 | fuel consumption for transport of <i>passenger diesel</i> | L | 3,2 | 128.399 | 410,88 | 634,63 | 9.802 | 31,37 | 174,94 | 18.173 | 58,15 | 83,85 | 20.000 | 64,00 | 181,09 | | 0,00 | 0,00 |
| 1 | fuel consumption for transport of <i>diesel + fuel oil</i> | L | 3,2 | 290.650 | 930,08 | 1436,58 | 13.271 | 42,47 | 236,85 | 340.913 | 1090,92 | 1573,04 | | 0,00 | 0,00 | 341.749 | 1093,60 | 2186,61 |
| 1 | fuel consumption for heating <i>fuel oil</i> | L | 3,185 | 224.380 | 714,65 | 1103,83 | 130.034 | 414,16 | 2309,85 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>gray</i> | kWh | 0,649 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 1.457.715 | 946,06 | 2676,89 | 880.355 | 571,35 | 1142,40 |
| 2 | electricity <i>wind</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 556.014 | 0,00 | 0,00 |
| 2 | electricity <i>water</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>biomass</i> | kWh | 0,075 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 58.292 | 4,37 | 8,74 |
| 2 | electricity <i>thermal</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>solar</i> | kWh | 0 | 2.783.822 | 0,00 | 0,00 | 1.765.938 | 0,00 | 0,00 | 5.032.595 | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | city heating <i>browncoal</i> | Gj | 64,3 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 4.299 | 276,43 | 782,15 | | 0,00 | 0,00 |
| 2 | business travel - plane <i><700km</i> | km | 0,297 | 358.237 | 106,40 | 164,34 | 2.476 | 0,74 | 4,10 | 19.568 | 5,81 | 8,38 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - plane <i>700-2500km</i> | km | 0,2 | 218.170 | 43,63 | 67,40 | - | 0,00 | 0,00 | 3.330 | 0,67 | 0,96 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - plane <i>>2500km</i> | km | 0,147 | 517.713 | 76,10 | 117,55 | - | 0,00 | 0,00 | 16.003 | 2,35 | 3,39 | - | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - train <i>stoptrain / intercity</i> | km | 0,024 | 7.412 | 0,18 | 0,27 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | business travel - train <i>high-speed</i> | km | 0,026 | 114.023 | 2,96 | 4,58 | | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |

white applicable, OK yellow applicable, no data or doubtful grey not applicable orange incomplete blue transposed data of 2017

| SCOPE 1 | TOTAL | Arendonk (incl. Group) | | | | | Balen | | | Hoboken | | | Zary | | | Newcastle Upon Tyne | | | |
|----------------------------|------------------------------------|------------------------|-------------|-------------|-----------|---|-------------|-----------|---|-------------|-----------|---|-------------|-----------|---|---------------------|-----------|---|--|
| | | % CO2-eq. | ton CO2-eq. | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | ton CO2-eq. | % CO2-eq. | kg CO ₂ -eq. / 1000 manhour | |
| | gas consumption for heating | 14,33% | 1205,50 | 36,33 | 1,52% | 56,11 | 560,23 | 52,43% | 3124,53 | 591,23 | 30,97% | 852,52 | 0,00 | 0,00% | 0,00 | 17,71 | 1,02% | 35,41 | |
| | gas consumption for welding | 3,82% | 321,52 | 69,76 | 2,92% | 107,75 | 19,64 | 1,84% | 109,52 | 159,79 | 8,37% | 230,41 | 18,82 | 1,44% | 53,24 | 53,51 | 3,07% | 106,99 | |
| | fuel consumption for transport | 44,23% | 3721,46 | 1340,96 | 56,08% | 2071,21 | 73,83 | 6,91% | 411,79 | 1149,08 | 60,19% | 1656,89 | 64,00 | 4,90% | 181,09 | 1093,60 | 62,83% | 2186,61 | |
| | fuel consumption for heating | 13,42% | 1128,81 | 714,65 | 29,89% | 1103,83 | 414,16 | 38,76% | 2309,85 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | |
| | SUM SCOPE 1 | 75,79% | 6377,29 | 2161,70 | 90,41% | 3338,90 | 1067,86 | 99,93% | 5955,69 | 1900,10 | 99,54% | 2739,82 | 82,82 | 6,34% | 234,33 | 1164,82 | 66,92% | 2329,02 | |
| | percentage of total scope 1 | | | 33,90% | | | 16,74% | | | 29,79% | | | 1,30% | | | 18,27% | | | |
| SCOPE 2 | electricity - gray | 18,03% | 1517,41 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 946,06 | 72,48% | 2676,89 | 571,35 | 32,83% | 1142,40 | |
| | electricity - green | 0,05% | 4,37 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 4,37 | 0,25% | 8,74 | |
| | city heating - other | 3,29% | 276,43 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 276,43 | 21,18% | 782,15 | 0,00 | 0,00% | 0,00 | |
| | business travel | 2,84% | 238,84 | 229,28 | 9,59% | 354,13 | 0,74 | 0,07% | 4,10 | 8,83 | 0,46% | 12,73 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | |
| | SUM SCOPE 2 | 24,21% | 2037,05 | 229,28 | 9,59% | 354,13 | 0,74 | 0,07% | 4,10 | 8,83 | 0,46% | 12,73 | 1222,48 | 93,66% | 3459,05 | 575,72 | 33,08% | 1151,14 | |
| | percentage of total scope 2 | | | 11,26% | | | 0,04% | | | 0,43% | | | 60,01% | | | 28,26% | | | |
| | SUM TOTAL | | 8414,34 | 2390,97 | | 3693,03 | 1068,60 | | 5959,79 | 1908,93 | | 2752,55 | 1305,30 | | 3693,38 | 1740,54 | | 3480,16 | |
| percentage of total | | | 28,42% | | | 12,70% | | 22,69% | | | | 15,51% | | | 20,69% | | | | |

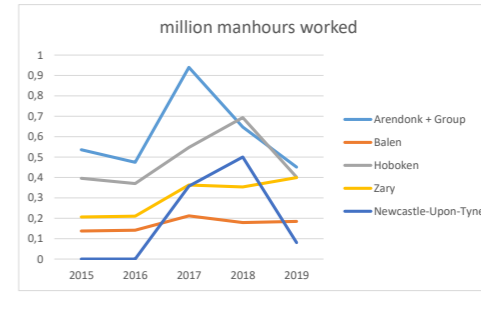
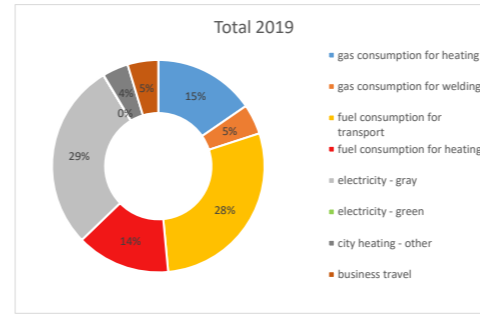
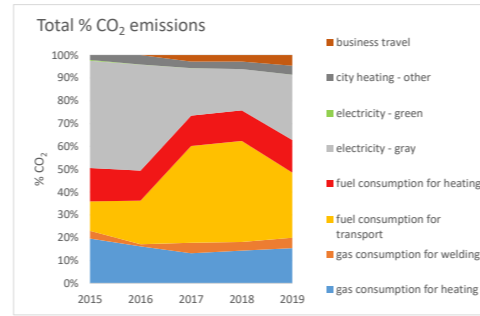
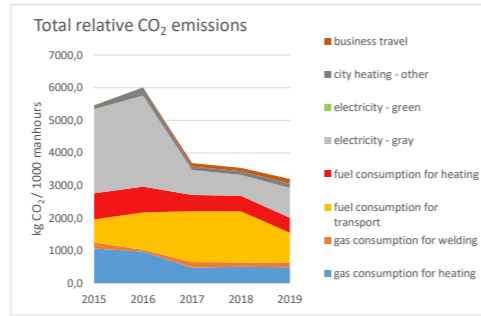
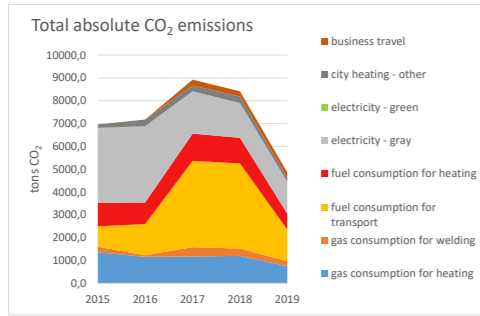
| 2019 million manhours worked : 1,515989 | | | | 0,450720 | | | 0,18423 | | | 0,401405 | | | 0,399193 | | | 0,080441 | | |
|---|---|----------------|---|------------------|-------------|--|-----------|-------------|--|-----------|-------------|--|-----------|-------------|--|---------------------|-------------|--|
| scope | item | unit | conversionfactor unit to kg CO2-eq. | Arendonk + Group | | | Balen | | | Hoboken | | | Zary | | | Newcastle-Upon-Tyne | | |
| | | | | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour | data | ton CO2-eq. | kg CO ₂ -eq. / 1000 manhour |
| 1 | gas consumption for heating <i>natural gas</i> | m ³ | 1,89 | 13.495 | 25,51 | 56,59 | 23.858 | 45,09 | 244,76 | 213.417 | 403,36 | 1004,87 | | 0,00 | 0,00 | 16.411 | 31,02 | 385,58 |
| 1 | gas consumption for heating <i>propane</i> | L | 1,725 | | 0,00 | 0,00 | 141.353 | 243,83 | 1323,53 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>propane</i> | kg | 2,974 | 4.899 | 14,57 | 32,33 | 4.842 | 14,40 | 78,17 | - | 0,00 | 0,00 | 2.145 | 6,38 | 15,98 | 1.577 | 4,69 | 58,31 |
| 1 | gas consumption for welding <i>acetylene</i> | kg | 3,385 | 4.344 | 14,70 | 32,62 | 510 | 1,73 | 9,37 | 18.360 | 62,15 | 154,83 | 2.286 | 7,74 | 19,38 | | 0,00 | 0,00 |
| | gas consumption for welding <i>propylene (Apachi)</i> | kg | 3,356 | 5.102 | 17,12 | 37,99 | - | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 1 | gas consumption for welding <i>CO₂ + Euromix (15% CO₂)</i> | kg | 1 | 18.023 | 18,02 | 39,99 | 28.080 | 28,08 | 152,42 | 24.345 | 24,35 | 60,65 | 7.545 | 7,55 | 18,90 | 1.462 | 1,46 | 18,17 |
| 1 | fuel consumption for transport of passenger <i>diesel</i> | L | 3,2 | 128.667 | 411,73 | 913,50 | 12.275 | 39,28 | 213,21 | 20.852 | 66,73 | 166,23 | 15.487 | 49,56 | 124,15 | | 0,00 | 0,00 |
| 1 | fuel consumption for transport of goods <i>diesel + fuel oil</i> | L | 3,2 | 142.394 | 455,66 | 1010,96 | 14.282 | 45,70 | 248,07 | 91.645 | 293,26 | 730,59 | | 0,00 | 0,00 | 7.120 | 22,78 | 283,24 |
| 1 | fuel consumption for heating <i>fuel oil</i> | L | 3,185 | 137.392 | 437,59 | 970,88 | 80.176 | 255,36 | 1386,10 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>gray</i> | kWh | 0,649 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 1.550.123 | 1006,03 | 2520,16 | 587.766 | 381,46 | 4742,11 |
| 2 | electricity <i>wind</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 140.913 | 0,00 | 0,00 |
| 2 | electricity <i>water</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>biomass</i> | kWh | 0,075 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 24.867 | 1,87 | 23,19 |
| 2 | electricity <i>thermal</i> | kWh | 0 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | electricity <i>solar</i> | kWh | 0 | 2.868.378 | 0,00 | 0,00 | 1.755.400 | 0,00 | 0,00 | 3.783.610 | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 |
| 2 | city heating <i>browncoal</i> | Gj | 64,3 | | 0,00 | 0,00 | | 0,00 | 0,00 | | 0,00 | 0,00 | 2.974 | 191,23 | 479,04 | | 0,00 | 0,00 |
| 2 | business travel - plane <700km | km | 0,297 | 356.887 | 106,00 | 235,17 | - | 0,00 | 0,00 | 2.614 | 0,78 | 1,93 | - | 0,00 | 0,00 | - | 0,00 | 0,00 |
| 2 | business travel - plane 700-2500km | km | 0,2 | 309.538 | 61,91 | 137,35 | 2.868 | 0,57 | 3,11 | 11.875 | 2,38 | 5,92 | - | 0,00 | 0,00 | - | 0,00 | 0,00 |
| 2 | business travel - plane >2500km | km | 0,147 | 356.170 | 52,36 | 116,16 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | - | 0,00 | 0,00 |
| 2 | business travel - train <i>stoptrain / intercity</i> | km | 0,024 | 2.760 | 0,07 | 0,15 | - | 0,00 | 0,00 | - | 0,00 | 0,00 | | 0,00 | 0,00 | 3.976 | 0,10 | 1,19 |
| 2 | business travel - train <i>high-speed</i> | km | 0,026 | 93.220 | 2,42 | 5,38 | 5.448 | 0,14 | 0,77 | - | 0,00 | 0,00 | | 0,00 | 0,00 | - | 0,00 | 0,00 |

white applicable, OK yellow applicable, no data or doubtful grey not applicable orange incomplete blue transposed data of 2018

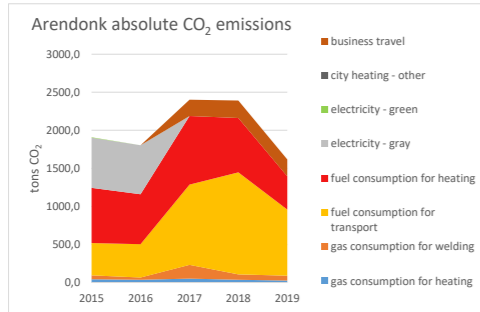
| | | TOTAL | | Arendonk (incl. Group) | | | Balen | | | Hoboken | | | Zary | | | Newcastle Upon Tyne | | |
|----------------------------|------------------------------------|------------------------|--------------------------|--------------------------|------------------------|---|--------------------------|------------------------|---|--------------------------|------------------------|---|--------------------------|------------------------|---|--------------------------|------------------------|---|
| | | % CO ₂ -eq. | ton CO ₂ -eq. | ton CO ₂ -eq. | % CO ₂ -eq. | kg CO ₂ -eq. / 1000 manhour | ton CO ₂ -eq. | % CO ₂ -eq. | kg CO ₂ -eq. / 1000 manhour | ton CO ₂ -eq. | % CO ₂ -eq. | kg CO ₂ -eq. / 1000 manhour | ton CO ₂ -eq. | % CO ₂ -eq. | kg CO ₂ -eq. / 1000 manhour | ton CO ₂ -eq. | % CO ₂ -eq. | kg CO ₂ -eq. / 1000 manhour |
| S C O P E 1 | gas consumption for heating | 15,42% | 748,81 | 25,51 | 1,58% | 56,59 | 288,93 | 42,86% | 1568,29 | 403,36 | 47,29% | 1004,87 | 0,00 | 0,00% | 0,00 | 31,02 | 7,00% | 385,58 |
| | gas consumption for welding | 4,59% | 222,94 | 64,42 | 3,98% | 142,93 | 44,21 | 6,56% | 239,96 | 86,49 | 10,14% | 215,48 | 21,66 | 1,71% | 54,27 | 6,15 | 1,39% | 76,48 |
| | fuel consumption for transport | 28,51% | 1384,71 | 867,40 | 53,62% | 1924,47 | 84,98 | 12,61% | 461,28 | 359,99 | 42,20% | 896,83 | 49,56 | 3,91% | 124,15 | 22,78 | 5,14% | 283,24 |
| | fuel consumption for heating | 14,27% | 692,95 | 437,59 | 27,05% | 970,88 | 255,36 | 37,88% | 1386,10 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 |
| | SUM SCOPE 1 | 62,79% | 3049,41 | 1394,91 | 86,23% | 3094,86 | 673,48 | 99,89% | 3655,63 | 849,84 | 99,63% | 2117,17 | 71,22 | 5,61% | 178,41 | 59,95 | 13,52% | 745,30 |
| | percentage of total scope 1 | | | 45,74% | | | 22,09% | | | 27,87% | | | 2,34% | | | | 1,97% | |
| S C O P E 2 | electricity - gray | 28,57% | 1387,49 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 1006,03 | 79,31% | 2520,16 | 381,46 | 86,04% | 4742,11 |
| | electricity - green | 0,04% | 1,87 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 1,87 | 0,42% | 23,19 |
| | city heating - other | 3,94% | 191,23 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 0,00 | 0,00% | 0,00 | 191,23 | 15,08% | 479,04 | 0,00 | 0,00% | 0,00 |
| | business travel | 4,67% | 226,71 | 222,75 | 13,77% | 494,21 | 0,72 | 0,11% | 3,88 | 3,15 | 0,37% | 7,85 | 0,00 | 0,00% | 0,00 | 0,10 | 0,02% | 1,19 |
| | SUM SCOPE 2 | 37,21% | 1807,30 | 222,75 | 13,77% | 494,21 | 0,72 | 0,11% | 3,88 | 3,15 | 0,37% | 7,85 | 1197,26 | 94,39% | 2999,20 | 383,42 | 86,48% | 4766,48 |
| | percentage of total scope 2 | | | 12,33% | | | 0,04% | | | 0,17% | | | 66,25% | | | 21,22% | | |
| | SUM TOTAL | | 4856,70 | 1617,66 | | 3589,07 | 674,19 | | 3659,51 | 852,99 | | 2125,02 | 1268,48 | | 3177,61 | 443,37 | | 5511,79 |
| | percentage of total | | | 33,31% | | | 13,88% | | | 17,56% | | | 26,12% | | | 9,13% | | |

| | |
|---------------------------------|---|
| Reporting organization : | Smulders Group |
| Responsible : | Carla Wellens |
| Reporting period : | see tabs |
| Organizational boundary : | lemants, scope 1&2 according to SKAO CO ₂ -Performanceladder 3 cfr. D-GR-ENV-001 - Organizational boundaries CO ₂ -p |
| Direct GHG emissions : | = scope 1 |
| Combustion of biomass : | no supplier-specific conversion factor, general factor co2emissiefactoren.nl |
| GHG removals : | not applicable |
| Exclusion of sources or sinks : | not applicable |
| Indirect GHG emissions : | = scope 2 |
| Base year : | 2014 |
| Changes or recalculations : | 2015: new conversion factors according to http://co2emissiefactoren.nl/ 2015: added: CO ₂ related to working hours 2015: added: weldinggas Euromix 15% CO ₂ 2015: added: city heating Spomasz 2015: removed: refrigerants, according to SKAO CO ₂ -Performanceladder 3 2015: baseyear 2014: Scholt Stroometiket 2014 in stead of Eneco 2013 2015: better registration of travel data = significant rise compared to baseyear 2014 2016: new responsible, Carla Wellens 2016: new conversion factors according to http://co2emissiefactoren.nl/ (<i>natural gas, city heating</i>) 2016: update: new data gasoline on yards, added to "transport of goods" 2016: site Abu Dhabi 2017: new conversion factors according to http://co2emissiefactoren.nl/ (<i>natural gas for heating, gray electricity, biomass, train IC</i>) 2017: as gray energy conversion factor is adjusted to reality (<i>rising do to more coal</i>) it is not correct to adjust the factor in previous years. Earlier factors are kept. Additional argument is that the factor <i>coal</i> is bigger in the Netherlands than Belgium. 2017: train IC Netherlands conversion factor to 0 because switch to 100% green energy, Not applicable for Belgium. Conversion factor stop train is used. 2017: the small sites of Angus India, Qatar and Abu Dhabi are removed, as together they represent less than 50 tons of CO ₂ emissions. Yearly evaluation based on site activity. Air travel to these sites is now included in Arendonk overhead. They represent +50%. 2017: site Smulders Newcastle-Upon-Tyne, added to previous years as an equal percentage. Both calculations (with/without Newcastle) are going to be kept to compare historic data. |
| Methodologies : | according to SKAO CO ₂ -Performanceladder 3 |
| Changes of methodologies : | not applicable |
| Emission or removal factors : | according to http://co2emissiefactoren.nl/ |
| Uncertainties : | cfr. P-ENV-GR-xxx - Identification and analysis of energy sources |
| ISO 14064 statement : | This report is in accordance with chapter 7.3 of ISO 14064:2006 |
| Annex : | VREG Scholt Stroometiket 2014 VREG Scholt Stroometiket 2015 VREG Scholt Stroometiket 2016 Scholt contract WaarborgZon 2017 - 2019 |

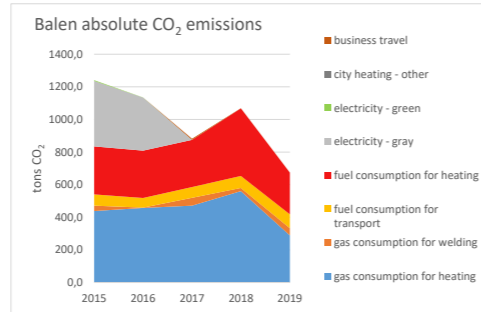
Smulders Group



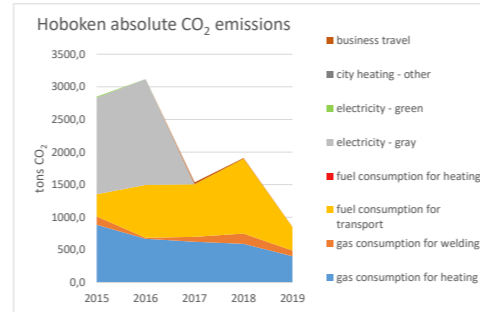
Arendonk (+overhead)



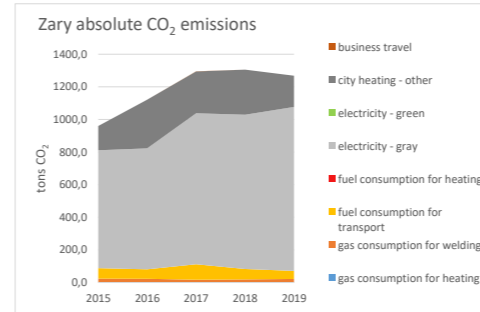
Balen



Hoboken



Zary



Newcastle

