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|----------------|------------------------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| AP | mol H ⁺ eq. | 2,54E-02 | 4,47E-04 | 1,47E-03 | 8,32E-03 | 3,04E-03 | 6,69E-06 | 2,12E-04 | 2,91E-03 | 4,03E-06 | -6,00E-03 |
| EP-freshwater | kg P eq. | 1,10E-03 | 1,00E-05 | 6,00E-05 | 3,33E-04 | 1,23E-04 | 1,28E-06 | 4,89E-06 | 5,67E-05 | 3,69E-08 | -1,78E-04 |
| EP-marine | kg N eq. | 7,43E-03 | 1,06E-04 | 4,60E-04 | 2,85E-03 | 9,47E-04 | 1,47E-06 | 4,31E-05 | 1,44E-03 | 1,43E-06 | -2,19E-03 |
| EP-terrestrial | mol N eq. | 7,64E-02 | 1,16E-03 | 4,78E-03 | 6,85E-03 | 9,82E-03 | 1,63E-05 | 4,70E-04 | 1,56E-02 | 1,57E-05 | -2,46E-02 |
| POCP | kg NMVOC eq. | 2,69E-02 | 4,56E-04 | 1,61E-03 | 2,30E-03 | 3,31E-03 | 3,72E-06 | 1,81E-04 | 4,07E-03 | 4,58E-06 | -6,36E-03 |
| ADP-M&M | kg Sb eq. | 3,97E-05 | 3,75E-07 | 2,06E-06 | 6,08E-06 | 4,27E-06 | 2,26E-08 | 2,65E-07 | 3,47E-07 | 1,23E-09 | -1,72E-05 |
| ADP-fossil | MJ | 4,41E+01 | 2,10E+00 | 2,45E+00 | 7,33E+00 | 5,07E+00 | 2,38E-02 | 1,13E+00 | 8,98E-01 | 1,56E-02 | -9,27E+00 |
| WDP | m ³ | 7,81E-01 | 8,57E-03 | 4,12E-02 | -2,71E+00 | 8,54E-02 | 2,82E-04 | 3,34E-03 | 2,08E-02 | 7,99E-05 | -1,97E-01 |

GWP-total: Global Warming Potential; **GWP-fossil:** Global Warming Potential fossil fuels; **GWP-biogenic:** Global Warming Potential biogenic; **GWP-LULUC:** Global Warming Potential land use and land use change; **ODP:** Depletion potential of the stratospheric ozone layer; **AP:** Acidification potential, Accumulated Exceedance; **EP-freshwater:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; See “additional Norwegian requirements” for indicator given as PO₄ eq. **EP-marine:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-terrestrial:** Eutrophication potential, Accumulated Exceedance; **POCP:** Formation potential of tropospheric ozone; **ADP-M&M:** Abiotic depletion potential for non-fossil resources (minerals and metals); **ADP-fossil:** Abiotic depletion potential for fossil resources; **WDP:** Water deprivation potential, deprivation weighted water consumption

Additional environmental impact indicators

| Indicator | Unit | A1-A3 | A4 | A5 | B2 | B3 | C1 | C2 | C3 | C4 | D |
|-----------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| PM | Disease incidence | 9,48E-07 | 1,36E-08 | 4,96E-08 | 4,02E-08 | 1,04E-07 | 3,84E-11 | 4,73E-09 | 2,28E-08 | 8,15E-11 | -4,11E-07 |
| IRP | kBq U235 eq. | 4,34E-01 | 1,09E-02 | 2,32E-02 | 5,03E-02 | 4,78E-02 | 4,15E-04 | 5,83E-03 | 3,63E-03 | 7,25E-05 | -1,42E-01 |
| ETP-fw | CTUe | 9,75E+01 | 1,77E+00 | 5,22E+00 | 5,03E+01 | 1,08E+01 | 4,09E-02 | 8,89E-01 | 2,53E+00 | 8,45E-03 | -5,12E+01 |
| HTP-c | CTUh | 1,09E-08 | 5,31E-11 | 2,57E-09 | 1,63E-09 | 4,94E-09 | 9,47E-13 | 2,86E-11 | 3,63E-08 | 2,07E-13 | -1,07E-09 |
| HTP-nc | CTUh | 1,23E-07 | 2,07E-09 | 6,99E-09 | 2,23E-08 | 1,41E-08 | 2,72E-11 | 8,98E-10 | 8,97E-09 | 4,07E-12 | -3,68E-08 |
| SQP | Dimensionless | 2,41E+03 | 2,91E+00 | 1,21E+02 | 1,43E+01 | 2,54E+02 | 2,90E-02 | 7,89E-01 | 2,59E-01 | 4,58E-02 | -1,73E+02 |

PM: Particulate matter emissions; **IRP:** Ionising radiation, human health; **ETP-fw:** Ecotoxicity (freshwater); **ETP-c:** Human toxicity, cancer effects; **HTP-nc:** Human toxicity, non-cancer effects; **SQP:** Land use related impacts / soil quality

Classification of disclaimers to the declaration of core and additional environmental impact indicators

| ILCD classification | Indicator | Disclaimer |
|--|---|------------|
| ILCD type / level 1 | Global warming potential (GWP) | None |
| | Depletion potential of the stratospheric ozone layer (ODP) | None |
| | Potential incidence of disease due to PM emissions (PM) | None |
| | Acidification potential, Accumulated Exceedance (AP) | None |
| | Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater) | None |
| ILCD type / level 2 | Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine) | None |
| | Eutrophication potential, Accumulated Exceedance (EP-terrestrial) | None |
| | Formation potential of tropospheric ozone (POCP) | None |
| | Potential Human exposure efficiency relative to U235 (IRP) | 1 |
| ILCD type / level 3 | Abiotic depletion potential for non-fossil resources (ADP-minerals&metals) | 2 |
| | Abiotic depletion potential for fossil resources (ADP-fossil) | 2 |
| | Water (user) deprivation potential, deprivation-weighted water consumption (WDP) | 2 |
| | Potential Comparative Toxic Unit for ecosystems (ETP-fw) | 2 |
| | Potential Comparative Toxic Unit for humans (HTP-c) | 2 |
| | Potential Comparative Toxic Unit for humans (HTP-nc) | 2 |
| | Potential Soil quality index (SQP) | 2 |
| <p>Disclaimer 1 – This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.</p> | | |
| <p>Disclaimer 2 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator</p> | | |

Resource use

| Parameter | Unit | A1-A3 | A4 | A5 | B2 | B3 | C1 | C2 | C3 | C4 | D |
|-----------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| RPEE | MJ | 4,69E+02 | 3,16E-02 | 2,35E+01 | 5,59E-01 | 4,93E+01 | 2,04E-02 | 1,62E-02 | 4,29E-02 | 4,07E-04 | -6,20E+01 |
| RPEM | MJ | 1,77E+02 | 0,00E+00 | 8,85E+00 | 6,50E-02 | 1,86E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| TPE | MJ | 4,69E+02 | 3,16E-02 | 2,35E+01 | 6,24E-01 | 4,93E+01 | 2,04E-02 | 1,62E-02 | 4,29E-02 | 4,07E-04 | -6,20E+01 |
| NRPE | MJ | 4,27E+01 | 2,10E+00 | 2,38E+00 | 4,37E+00 | 4,92E+00 | 2,38E-02 | 1,13E+00 | 8,98E-01 | 1,56E-02 | -9,27E+00 |
| NRPM | MJ | 3,48E+01 | 0,00E+00 | 1,74E+00 | 4,27E-01 | 3,66E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| TRPE | MJ | 4,29E+01 | 2,10E+00 | 2,39E+00 | 4,79E+00 | 4,94E+00 | 2,38E-02 | 1,13E+00 | 8,98E-01 | 1,56E-02 | -9,27E+00 |
| SM | kg | 1,90E-03 | 0,00E+00 | 9,50E-05 | 1,06E-03 | 2,00E-04 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| RSF | MJ | 1,28E+01 | 0,00E+00 | 6,39E-01 | 2,40E-04 | 1,34E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| NRSF | MJ | 9,78E-06 | 0,00E+00 | 4,89E-07 | 1,96E-05 | 1,03E-06 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| W | m ³ | 1,55E-01 | 2,79E-04 | 8,09E-03 | 1,85E-01 | 1,68E-02 | 6,25E-05 | 1,20E-04 | 4,42E-03 | 2,02E-05 | -1,87E-01 |

RPEE Renewable primary energy resources used as energy carrier; RPEM Renewable primary energy resources used as raw materials; TPE Total use of renewable primary energy resources; NRPE Non renewable primary energy resources used as energy carrier; NRPM Non renewable primary energy resources used as materials; TRPE Total use of non renewable primary energy resources; SM Use of secondary materials; RSF Use of renewable secondary fuels; NRSF Use of non renewable secondary fuels; W Use of net fresh water

End of life - Waste

| Parameter | Unit | A1-A3 | A4 | A5 | B2 | B3 | C1 | C2 | C3 | C4 | D |
|-----------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| HW | KG | 2,64E-02 | 1,34E-04 | 4,30E-03 | 4,56E-03 | 8,23E-03 | 3,90E-06 | 5,82E-05 | 8,26E-04 | 5,07E-02 | -6,03E-03 |
| NHW | KG | 1,42E+00 | 2,43E-01 | 9,35E-02 | 3,46E-01 | 1,90E-01 | 1,59E-04 | 5,93E-02 | 5,99E-02 | 2,94E-02 | -2,39E-01 |
| RW | KG | 2,37E-04 | 1,41E-05 | 1,32E-05 | 2,34E-05 | 2,74E-05 | 1,04E-07 | 7,65E-06 | 2,13E-06 | 9,60E-08 | -4,56E-05 |

HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW Radioactive waste disposed

End of life – output flow

| Parameter | Unit | A1-A3 | A4 | A5 | B2 | B3 | C1 | C2 | C3 | C4 | D |
|-----------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CR | kg | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MR | kg | 2,01E-03 | 0,00E+00 | 2,01E-02 | 0,00E+00 | 2,21E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MER | kg | 0,00E+00 | 0,00E+00 | 4,58E-01 | 0,00E+00 | 9,63E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | MJ | 2,82E-03 | 0,00E+00 | 1,41E-04 | 0,00E+00 | 2,96E-04 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| ETE | MJ | 2,40E-02 | 0,00E+00 | 1,20E-03 | 0,00E+00 | 2,52E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |

CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy



Reading example: 9,0 E-03 = $9,0 \cdot 10^{-3}$ = 0,009

Information describing the biogenic carbon content at the factory gate

| Biogenic carbon content | Unit | Value |
|---|------|-------|
| Biogenic carbon content in product | kg C | 3,89 |
| Biogenic carbon content in the accompanying packaging | kg C | 0 |

Bibliography

| | |
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| SSB (2020) Table 04727 | District Heating Balance (GWh) |
| SSB (2020) Table 04730 | Consumption of fuel for gross production of district heating, by source of energy |
| SSB (2020) Table 09469 | Net production of district heating, by heating system |

| | | | |
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