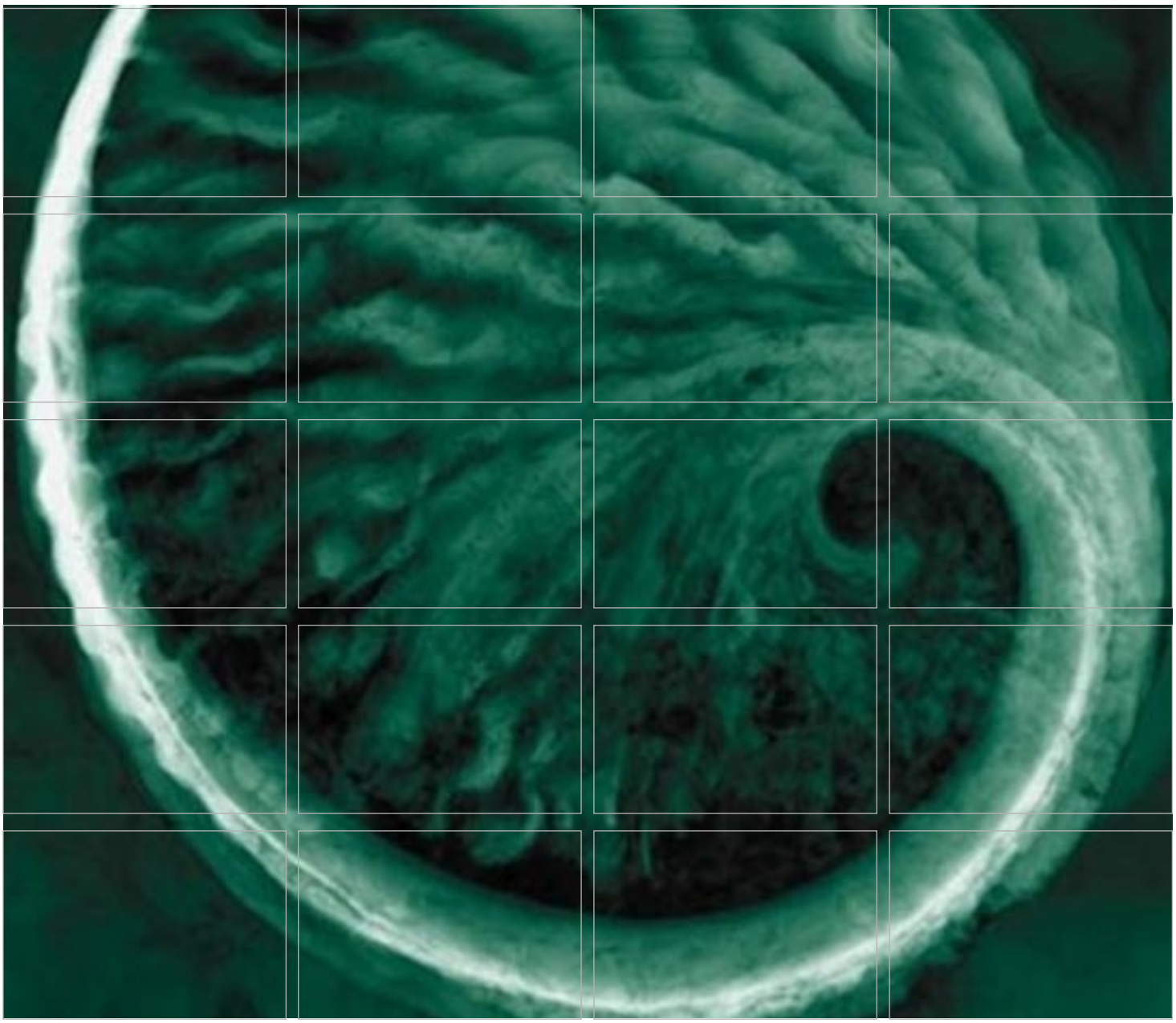

# Carbon Balances and Energy Impacts of the Management of UK Wastes

## Defra R&D Project WRT 237

## Annex D

December 2006

*Delivering sustainable solutions in a more competitive world*

Annex D

# Greenhouse Gas Emission and Fossil Energy Demand Estimates

## D1 NET GREENHOUSE GAS AND FOSSIL ENERGY DEMAND ESTIMATES OVER TIME

Net greenhouse gas and fossil energy demand estimates quantified over the assessment period for each material and scenario are presented in the following tables. Where appropriate, the net greenhouse gas and energy implications of landfilling waste materials have also been separately detailed.

### D1.1 PAPER AND CARD

*Table D1.1 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 13.7 | -3.7 | -1.5 | -52.3 | -19.4 | 7.4 | 0.04 | 0.6 |
| 2006 | 13.7 | -3.5 | -1.3 | -53.7 | -20.8 | 7.4 | 0.23 | -0.9 |
| 2007 | 13.7 | -3.3 | -1.2 | -55.1 | -22.2 | 7.4 | 0.41 | -2.2 |
| 2008 | 13.7 | -3.2 | -1.0 | -56.4 | -23.5 | 7.4 | 0.57 | -3.5 |
| 2009 | 13.7 | -3.0 | -0.8 | -57.6 | -24.7 | 7.4 | 0.73 | -4.8 |
| 2010 | 13.7 | -2.9 | -0.7 | -58.8 | -25.9 | 7.4 | 0.88 | -5.9 |
| 2011 | 13.7 | -2.7 | -0.5 | -59.9 | -27.0 | 7.4 | 1.02 | -7.0 |
| 2012 | 13.7 | -2.6 | -0.4 | -60.9 | -28.0 | 7.4 | 1.15 | -8.1 |
| 2013 | 13.7 | -2.5 | -0.3 | -61.9 | -29.0 | 7.4 | 1.28 | -9.0 |
| 2014 | 13.7 | -2.4 | -0.2 | -62.8 | -30.0 | 7.4 | 1.40 | -10.0 |
| 2015 | 13.7 | -2.2 | -0.1 | -63.7 | -30.8 | 7.4 | 1.51 | -10.9 |
| 2016 | 13.7 | -2.1 | 0.0 | -64.6 | -31.7 | 7.4 | 1.62 | -11.7 |
| 2017 | 13.7 | -2.0 | 0.2 | -65.4 | -32.5 | 7.4 | 1.72 | -12.5 |
| 2018 | 13.7 | -1.9 | 0.2 | -66.1 | -33.2 | 7.4 | 1.81 | -13.3 |
| 2019 | 13.7 | -1.8 | 0.3 | -66.8 | -33.9 | 7.4 | 1.90 | -14.0 |
| 2020 | 13.7 | -1.8 | 0.4 | -67.5 | -34.6 | 7.4 | 1.99 | -14.6 |
| 2021 | 13.7 | -1.7 | 0.5 | -68.1 | -35.3 | 7.4 | 2.07 | -15.3 |
| 2022 | 13.7 | -1.6 | 0.6 | -68.7 | -35.9 | 7.4 | 2.15 | -15.9 |
| 2023 | 13.7 | -1.5 | 0.7 | -69.3 | -36.4 | 7.4 | 2.22 | -16.5 |
| 2024 | 13.7 | -1.5 | 0.7 | -69.9 | -37.0 | 7.4 | 2.29 | -17.0 |
| 2025 | 13.7 | -1.4 | 0.8 | -70.4 | -37.5 | 7.4 | 2.36 | -17.5 |
| 2026 | 13.7 | -1.3 | 0.9 | -70.9 | -38.0 | 7.4 | 2.42 | -18.0 |
| 2027 | 13.7 | -1.3 | 0.9 | -71.3 | -38.5 | 7.4 | 2.48 | -18.5 |
| 2028 | 13.7 | -1.2 | 1.0 | -71.8 | -38.9 | 7.4 | 2.54 | -18.9 |
| 2029 | 13.7 | -1.2 | 1.0 | -72.2 | -39.3 | 7.4 | 2.59 | -19.4 |
| 2030 | 13.7 | -1.1 | 1.1 | -72.6 | -39.7 | 7.4 | 2.64 | -19.8 |
| 2031 | 13.7 | -1.1 | 1.1 | -73.0 | -40.1 | 7.4 | 2.69 | -20.1 |
| 2035 | - | 2.3 | 2.3 | -17.9 | -17.9 | - | 2.29 | -17.9 |
| 2045 | - | 1.4 | 1.4 | -10.6 | -10.6 | - | 1.35 | -10.6 |
| 2055 | - | 0.8 | 0.8 | -6.3 | -6.3 | - | 0.81 | -6.3 |
| 2065 | - | 0.5 | 0.5 | -3.8 | -3.8 | - | 0.49 | -3.8 |
| 2075 | - | 0.3 | 0.3 | -2.4 | -2.4 | - | 0.30 | -2.4 |
| 2085 | - | 0.2 | 0.2 | -1.4 | -1.4 | - | 0.19 | -1.4 |
| 2095 | - | 0.1 | 0.1 | -0.9 | -0.9 | - | 0.11 | -0.9 |
| 2105 | - | 0.1 | 0.1 | -0.6 | -0.6 | - | 0.07 | -0.6 |

*Table D1.2 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 13.7 | -3.7 | -1.5 | -52.3 | -19.4 | 7.4 | 0.04 | 0.6 |
| 2006 | 13.7 | -3.6 | -1.4 | -54.7 | -21.3 | 7.3 | 0.23 | -0.9 |
| 2007 | 13.7 | -3.5 | -1.2 | -57.1 | -23.0 | 7.1 | 0.40 | -2.2 |
| 2008 | 13.7 | -3.4 | -1.1 | -59.4 | -24.7 | 7.0 | 0.56 | -3.5 |
| 2009 | 13.7 | -3.4 | -1.0 | -61.6 | -26.3 | 6.9 | 0.71 | -4.7 |
| 2010 | 13.7 | -3.3 | -0.9 | -63.6 | -27.7 | 6.8 | 0.84 | -5.7 |
| 2011 | 13.7 | -3.2 | -0.8 | -65.6 | -29.1 | 6.6 | 0.97 | -6.7 |
| 2012 | 13.7 | -3.2 | -0.7 | -67.5 | -30.5 | 6.5 | 1.08 | -7.7 |
| 2013 | 13.7 | -3.2 | -0.7 | -69.4 | -31.7 | 6.4 | 1.19 | -8.5 |
| 2014 | 13.7 | -3.2 | -0.6 | -71.1 | -32.9 | 6.3 | 1.29 | -9.3 |
| 2015 | 13.7 | -3.1 | -0.5 | -72.8 | -34.0 | 6.1 | 1.38 | -10.0 |
| 2016 | 13.7 | -3.1 | -0.5 | -74.4 | -35.0 | 6.0 | 1.46 | -10.7 |
| 2017 | 13.7 | -3.1 | -0.5 | -75.9 | -36.0 | 5.9 | 1.53 | -11.3 |
| 2018 | 13.7 | -3.1 | -0.4 | -77.4 | -36.9 | 5.8 | 1.60 | -11.8 |
| 2019 | 13.7 | -3.2 | -0.4 | -78.9 | -37.8 | 5.7 | 1.66 | -12.3 |
| 2020 | 13.7 | -3.2 | -0.4 | -80.3 | -38.6 | 5.5 | 1.72 | -12.7 |
| 2021 | 13.7 | -3.2 | -0.4 | -81.6 | -39.4 | 5.4 | 1.77 | -13.1 |
| 2022 | 13.7 | -3.2 | -0.3 | -82.9 | -40.1 | 5.3 | 1.81 | -13.5 |
| 2023 | 13.7 | -3.3 | -0.3 | -84.1 | -40.8 | 5.2 | 1.85 | -13.8 |
| 2024 | 13.7 | -3.3 | -0.3 | -85.3 | -41.5 | 5.1 | 1.88 | -14.1 |
| 2025 | 13.7 | -3.3 | -0.3 | -86.4 | -42.1 | 4.9 | 1.91 | -14.3 |
| 2026 | 13.7 | -3.4 | -0.3 | -87.5 | -42.6 | 4.8 | 1.94 | -14.5 |
| 2027 | 13.7 | -3.4 | -0.4 | -88.6 | -43.2 | 4.7 | 1.96 | -14.7 |
| 2028 | 13.7 | -3.5 | -0.4 | -89.6 | -43.7 | 4.6 | 1.97 | -14.9 |
| 2029 | 13.7 | -3.5 | -0.4 | -90.6 | -44.1 | 4.5 | 1.99 | -15.0 |
| 2030 | 13.7 | -3.6 | -0.4 | -91.6 | -44.6 | 4.4 | 2.00 | -15.1 |
| 2031 | 13.7 | -3.7 | -0.4 | -92.5 | -45.0 | 4.3 | 2.00 | -15.1 |
| 2035 | - | 1.7 | 1.7 | -13.2 | -13.2 | - | 1.69 | -13.2 |
| 2045 | - | 1.0 | 1.0 | -7.8 | -7.8 | - | 1.00 | -7.8 |
| 2055 | - | 0.6 | 0.6 | -4.7 | -4.7 | - | 0.60 | -4.7 |
| 2065 | - | 0.4 | 0.4 | -2.8 | -2.8 | - | 0.36 | -2.8 |
| 2075 | - | 0.2 | 0.2 | -1.7 | -1.7 | - | 0.22 | -1.7 |
| 2085 | - | 0.1 | 0.1 | -1.1 | -1.1 | - | 0.14 | -1.1 |
| 2095 | - | 0.1 | 0.1 | -0.7 | -0.7 | - | 0.09 | -0.7 |
| 2105 | - | 0.1 | 0.1 | -0.4 | -0.4 | - | 0.05 | -0.4 |

*Table D1.3 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 13.7 | -3.7 | -1.5 | -52.3 | -19.4 | 7.4 | 0.04 | 0.6 |
| 2006 | 13.7 | -3.5 | -1.3 | -53.7 | -20.8 | 7.2 | 0.23 | -0.9 |
| 2007 | 13.7 | -3.3 | -1.2 | -55.1 | -22.2 | 7.0 | 0.40 | -2.2 |
| 2008 | 13.7 | -3.2 | -1.0 | -56.4 | -23.5 | 6.8 | 0.55 | -3.4 |
| 2009 | 13.7 | -3.0 | -0.8 | -57.6 | -24.7 | 6.6 | 0.69 | -4.6 |
| 2010 | 13.7 | -2.9 | -0.7 | -58.8 | -25.9 | 6.3 | 0.82 | -5.6 |
| 2011 | 13.7 | -2.7 | -0.5 | -59.9 | -27.0 | 6.1 | 0.93 | -6.5 |
| 2012 | 13.7 | -2.6 | -0.4 | -60.9 | -28.0 | 5.9 | 1.03 | -7.3 |
| 2013 | 13.7 | -3.7 | -1.5 | -52.3 | -19.4 | 5.7 | 1.12 | -8.0 |
| 2014 | 13.7 | -3.6 | -1.4 | -56.1 | -21.5 | 5.5 | 1.20 | -8.7 |
| 2015 | 13.7 | -3.6 | -1.2 | -60.0 | -23.6 | 5.3 | 1.27 | -9.3 |
| 2016 | 13.7 | -3.6 | -1.1 | -63.9 | -25.6 | 5.1 | 1.33 | -9.8 |
| 2017 | 13.7 | -3.6 | -1.0 | -67.9 | -27.6 | 4.9 | 1.38 | -10.2 |
| 2018 | 13.7 | -3.6 | -0.9 | -71.9 | -29.5 | 4.7 | 1.42 | -10.6 |
| 2019 | 13.7 | -3.6 | -0.8 | -76.0 | -31.4 | 4.5 | 1.46 | -10.9 |
| 2020 | 13.7 | -3.7 | -0.8 | -80.1 | -33.2 | 4.3 | 1.49 | -11.1 |
| 2021 | 13.7 | -3.8 | -0.7 | -84.3 | -35.0 | 4.1 | 1.51 | -11.3 |
| 2022 | 13.7 | -3.9 | -0.7 | -88.6 | -36.8 | 3.8 | 1.52 | -11.4 |
| 2023 | 13.7 | -4.0 | -0.7 | -92.9 | -38.5 | 3.6 | 1.53 | -11.5 |
| 2024 | 13.7 | -4.1 | -0.7 | -97.4 | -40.2 | 3.4 | 1.53 | -11.5 |
| 2025 | 13.7 | -4.3 | -0.7 | -101.9 | -41.9 | 3.2 | 1.52 | -11.5 |
| 2026 | 13.7 | -4.5 | -0.7 | -106.5 | -43.6 | 3.0 | 1.51 | -11.4 |
| 2027 | 13.7 | -4.7 | -0.7 | -111.1 | -45.3 | 2.8 | 1.49 | -11.3 |
| 2028 | 13.7 | -4.9 | -0.8 | -115.9 | -47.0 | 2.6 | 1.47 | -11.2 |
| 2029 | 13.7 | -5.1 | -0.8 | -120.8 | -48.7 | 2.4 | 1.45 | -11.0 |
| 2030 | 13.7 | -5.3 | -0.9 | -125.8 | -50.3 | 2.2 | 1.42 | -10.8 |
| 2031 | 13.7 | -5.6 | -0.9 | -130.8 | -52.0 | 2.0 | 1.39 | -10.6 |
| 2035 | - | -5.9 | -1.0 | -136.0 | -53.7 | - | 1.14 | -8.9 |
| 2045 | - | -6.2 | -1.1 | -141.3 | -55.4 | - | 0.68 | -5.3 |
| 2055 | - | -6.5 | -1.2 | -146.7 | -57.1 | - | 0.41 | -3.2 |
| 2065 | - | -6.8 | -1.3 | -152.2 | -58.8 | - | 0.25 | -1.9 |
| 2075 | - | -7.1 | -1.4 | -157.9 | -60.5 | - | 0.15 | -1.2 |
| 2085 | - | -7.5 | -1.5 | -163.6 | -62.3 | - | 0.09 | -0.7 |
| 2095 | - | -7.8 | -1.7 | -169.5 | -64.0 | - | 0.06 | -0.5 |
| 2105 | - | -8.2 | -1.8 | -175.5 | -65.8 | - | 0.04 | -0.3 |

*Table D1.4 Combined Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 13.7 | -3.7 | -1.5 | -52.3 | -19.4 | 7.4 | 0.04 | 0.6 |
| 2006 | 13.7 | -3.6 | -1.4 | -55.0 | -21.3 | 7.2 | 0.23 | -0.9 |
| 2007 | 13.7 | -3.5 | -1.2 | -57.6 | -23.2 | 7.1 | 0.40 | -2.2 |
| 2008 | 13.7 | -3.5 | -1.1 | -60.1 | -24.9 | 6.9 | 0.56 | -3.5 |
| 2009 | 13.7 | -3.4 | -1.0 | -62.5 | -26.6 | 6.8 | 0.70 | -4.6 |
| 2010 | 13.7 | -3.4 | -0.9 | -64.8 | -28.1 | 6.6 | 0.84 | -5.7 |
| 2011 | 13.7 | -3.3 | -0.8 | -67.0 | -29.6 | 6.5 | 0.96 | -6.7 |
| 2012 | 13.7 | -3.3 | -0.8 | -69.1 | -30.9 | 6.3 | 1.07 | -7.6 |
| 2013 | 13.7 | -3.3 | -0.7 | -71.1 | -32.2 | 6.2 | 1.18 | -8.4 |
| 2014 | 13.7 | -3.3 | -0.7 | -73.1 | -33.4 | 6.0 | 1.27 | -9.2 |
| 2015 | 13.7 | -3.3 | -0.6 | -75.0 | -34.6 | 5.9 | 1.35 | -9.8 |
| 2016 | 13.7 | -3.3 | -0.6 | -76.8 | -35.7 | 5.7 | 1.43 | -10.5 |
| 2017 | 13.7 | -3.3 | -0.5 | -78.5 | -36.7 | 5.6 | 1.50 | -11.0 |
| 2018 | 13.7 | -3.4 | -0.5 | -80.2 | -37.6 | 5.4 | 1.56 | -11.5 |
| 2019 | 13.7 | -3.4 | -0.5 | -81.8 | -38.5 | 5.3 | 1.61 | -12.0 |
| 2020 | 13.7 | -3.4 | -0.5 | -83.4 | -39.4 | 5.1 | 1.66 | -12.4 |
| 2021 | 13.7 | -3.5 | -0.5 | -84.9 | -40.2 | 5.0 | 1.70 | -12.7 |
| 2022 | 13.7 | -3.5 | -0.5 | -86.3 | -40.9 | 4.8 | 1.74 | -13.0 |
| 2023 | 13.7 | -3.6 | -0.5 | -87.7 | -41.6 | 4.7 | 1.77 | -13.3 |
| 2024 | 13.7 | -3.6 | -0.5 | -89.1 | -42.3 | 4.6 | 1.80 | -13.5 |
| 2025 | 13.7 | -3.7 | -0.5 | -90.4 | -42.9 | 4.4 | 1.82 | -13.7 |
| 2026 | 13.7 | -3.8 | -0.5 | -91.7 | -43.5 | 4.3 | 1.83 | -13.8 |
| 2027 | 13.7 | -3.8 | -0.6 | -92.9 | -44.1 | 4.1 | 1.85 | -13.9 |
| 2028 | 13.7 | -3.9 | -0.6 | -94.1 | -44.6 | 4.0 | 1.85 | -14.0 |
| 2029 | 13.7 | -4.0 | -0.6 | -95.3 | -45.0 | 3.9 | 1.86 | -14.0 |
| 2030 | 13.7 | -4.1 | -0.7 | -96.4 | -45.5 | 3.7 | 1.86 | -14.1 |
| 2031 | 13.7 | -4.2 | -0.7 | -97.5 | -45.9 | 3.6 | 1.85 | -14.1 |
| 2035 | - | 1.6 | 1.6 | -12.2 | -12.2 | - | 1.56 | -12.2 |
| 2045 | - | 0.9 | 0.9 | -7.2 | -7.2 | - | 0.92 | -7.2 |
| 2055 | - | 0.6 | 0.6 | -4.3 | -4.3 | - | 0.55 | -4.3 |
| 2065 | - | 0.3 | 0.3 | -2.6 | -2.6 | - | 0.34 | -2.6 |
| 2075 | - | 0.2 | 0.2 | -1.6 | -1.6 | - | 0.21 | -1.6 |
| 2085 | - | 0.1 | 0.1 | -1.0 | -1.0 | - | 0.13 | -1.0 |
| 2095 | - | 0.1 | 0.1 | -0.6 | -0.6 | - | 0.08 | -0.6 |
| 2105 | - | 0.0 | 0.0 | -0.4 | -0.4 | - | 0.05 | -0.4 |

## *D1.2 KITCHEN AND FOOD WASTE*

### *Table D1.5 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 11.8 | -0.16 | 0.02 | -3.9 | -0.1 | 9.4 | 0.05 | 0.7 |
| 2006 | 11.8 | 0.02 | 0.21 | -5.4 | -1.5 | 9.4 | 0.24 | -0.7 |
| 2007 | 11.8 | 0.19 | 0.37 | -6.7 | -2.8 | 9.4 | 0.40 | -2.0 |
| 2008 | 11.8 | 0.33 | 0.52 | -7.8 | -4.0 | 9.4 | 0.55 | -3.1 |
| 2009 | 11.8 | 0.46 | 0.65 | -8.8 | -5.0 | 9.4 | 0.68 | -4.1 |
| 2010 | 11.8 | 0.58 | 0.76 | -9.7 | -5.9 | 9.4 | 0.80 | -5.0 |
| 2011 | 11.8 | 0.68 | 0.87 | -10.5 | -6.7 | 9.4 | 0.90 | -5.8 |
| 2012 | 11.8 | 0.77 | 0.96 | -11.3 | -7.4 | 9.4 | 0.99 | -6.6 |
| 2013 | 11.8 | 0.86 | 1.04 | -11.9 | -8.1 | 9.4 | 1.07 | -7.2 |
| 2014 | 11.8 | 0.93 | 1.11 | -12.5 | -8.6 | 9.4 | 1.15 | -7.8 |
| 2015 | 11.8 | 0.99 | 1.18 | -13.0 | -9.1 | 9.4 | 1.21 | -8.3 |
| 2016 | 11.8 | 1.05 | 1.23 | -13.4 | -9.6 | 9.4 | 1.27 | -8.7 |
| 2017 | 11.8 | 1.10 | 1.29 | -13.8 | -10.0 | 9.4 | 1.32 | -9.1 |
| 2018 | 11.8 | 1.15 | 1.33 | -14.2 | -10.3 | 9.4 | 1.37 | -9.5 |
| 2019 | 11.8 | 1.19 | 1.37 | -14.5 | -10.6 | 9.4 | 1.41 | -9.8 |
| 2020 | 11.8 | 1.23 | 1.41 | -14.8 | -10.9 | 9.4 | 1.44 | -10.1 |
| 2021 | 11.8 | 1.26 | 1.44 | -15.0 | -11.2 | 9.4 | 1.48 | -10.3 |
| 2022 | 11.8 | 1.29 | 1.47 | -15.2 | -11.4 | 9.4 | 1.51 | -10.5 |
| 2023 | 11.8 | 1.31 | 1.50 | -15.4 | -11.6 | 9.4 | 1.53 | -10.7 |
| 2024 | 11.8 | 1.33 | 1.52 | -15.6 | -11.8 | 9.4 | 1.55 | -10.9 |
| 2025 | 11.8 | 1.35 | 1.54 | -15.8 | -11.9 | 9.4 | 1.58 | -11.1 |
| 2026 | 11.8 | 1.37 | 1.56 | -15.9 | -12.1 | 9.4 | 1.59 | -11.2 |
| 2027 | 11.8 | 1.39 | 1.57 | -16.0 | -12.2 | 9.4 | 1.61 | -11.3 |
| 2028 | 11.8 | 1.40 | 1.59 | -16.1 | -12.3 | 9.4 | 1.62 | -11.4 |
| 2029 | 11.8 | 1.42 | 1.60 | -16.2 | -12.4 | 9.4 | 1.64 | -11.5 |
| 2030 | 11.8 | 1.43 | 1.61 | -16.3 | -12.5 | 9.4 | 1.65 | -11.6 |
| 2031 | 11.8 | 1.44 | 1.62 | -16.4 | -12.6 | 9.4 | 1.66 | -11.7 |
| 2035 | - | 1.14 | 1.14 | -8.8 | -8.8 | - | 1.14 | -8.8 |
| 2045 | - | 0.36 | 0.36 | -2.7 | -2.7 | - | 0.36 | -2.7 |
| 2055 | - | 0.11 | 0.11 | -0.8 | -0.8 | - | 0.11 | -0.8 |
| 2065 | - | 0.04 | 0.04 | -0.2 | -0.2 | - | 0.04 | -0.2 |
| 2075 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.01 | -0.1 |
| 2085 | - | 0.003 | 0.003 | -0.01 | -0.01 | - | 0.004 | -0.015 |
| 2095 | - | 0.001 | 0.001 | -0.001 | -0.001 | - | 0.002 | -0.001 |
| 2105 | - | 0.0003 | 0.0003 | 0.002 | 0.002 | - | 0.001 | 0.002 |

*Table D1.6 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 11.8 | -0.16 | 0.02 | -3.9 | -0.1 | 9.4 | 0.05 | 0.7 |
| 2006 | 11.8 | 0.04 | 0.22 | -5.3 | -1.4 | 9.2 | 0.24 | -0.7 |
| 2007 | 11.8 | 0.22 | 0.39 | -6.4 | -2.5 | 9.0 | 0.40 | -2.0 |
| 2008 | 11.8 | 0.37 | 0.54 | -7.4 | -3.4 | 8.8 | 0.53 | -3.1 |
| 2009 | 11.8 | 0.51 | 0.66 | -8.3 | -4.1 | 8.5 | 0.65 | -4.0 |
| 2010 | 11.8 | 0.62 | 0.77 | -9.0 | -4.8 | 8.3 | 0.75 | -4.8 |
| 2011 | 11.8 | 0.72 | 0.87 | -9.5 | -5.3 | 8.1 | 0.83 | -5.5 |
| 2012 | 11.8 | 0.81 | 0.95 | -10.0 | -5.6 | 7.9 | 0.90 | -6.0 |
| 2013 | 11.8 | 0.89 | 1.02 | -10.4 | -5.9 | 7.6 | 0.95 | -6.5 |
| 2014 | 11.8 | 0.95 | 1.08 | -10.6 | -6.1 | 7.4 | 1.00 | -6.9 |
| 2015 | 11.8 | 1.00 | 1.13 | -10.8 | -6.3 | 7.2 | 1.04 | -7.2 |
| 2016 | 11.8 | 1.05 | 1.17 | -10.9 | -6.3 | 7.0 | 1.06 | -7.4 |
| 2017 | 11.8 | 1.09 | 1.20 | -11.0 | -6.3 | 6.8 | 1.08 | -7.6 |
| 2018 | 11.8 | 1.12 | 1.22 | -11.0 | -6.3 | 6.5 | 1.09 | -7.7 |
| 2019 | 11.8 | 1.14 | 1.24 | -11.0 | -6.2 | 6.3 | 1.10 | -7.8 |
| 2020 | 11.8 | 1.16 | 1.26 | -10.9 | -6.0 | 6.1 | 1.10 | -7.9 |
| 2021 | 11.8 | 1.18 | 1.26 | -10.8 | -5.9 | 5.9 | 1.10 | -7.9 |
| 2022 | 11.8 | 1.19 | 1.27 | -10.6 | -5.6 | 5.7 | 1.09 | -7.8 |
| 2023 | 11.8 | 1.20 | 1.27 | -10.4 | -5.4 | 5.5 | 1.08 | -7.8 |
| 2024 | 11.8 | 1.20 | 1.27 | -10.2 | -5.1 | 5.3 | 1.06 | -7.7 |
| 2025 | 11.8 | 1.20 | 1.26 | -9.9 | -4.8 | 5.1 | 1.05 | -7.6 |
| 2026 | 11.8 | 1.20 | 1.25 | -9.7 | -4.5 | 4.9 | 1.02 | -7.4 |
| 2027 | 11.8 | 1.19 | 1.24 | -9.4 | -4.2 | 4.7 | 1.00 | -7.3 |
| 2028 | 11.8 | 1.19 | 1.23 | -9.1 | -3.8 | 4.4 | 0.98 | -7.1 |
| 2029 | 11.8 | 1.18 | 1.21 | -8.8 | -3.5 | 4.2 | 0.95 | -6.9 |
| 2030 | 11.8 | 1.17 | 1.20 | -8.4 | -3.1 | 4.0 | 0.92 | -6.7 |
| 2031 | 11.8 | 1.16 | 1.18 | -8.1 | -2.7 | 3.8 | 0.89 | -6.5 |
| 2035 | - | 0.59 | 0.59 | -4.7 | -4.7 | - | 0.59 | -4.7 |
| 2045 | - | 0.19 | 0.19 | -1.5 | -1.5 | - | 0.19 | -1.5 |
| 2055 | - | 0.06 | 0.06 | -0.5 | -0.5 | - | 0.06 | -0.5 |
| 2065 | - | 0.02 | 0.02 | -0.2 | -0.2 | - | 0.02 | -0.2 |
| 2075 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.01 | -0.1 |
| 2085 | - | 0.002 | 0.002 | -0.018 | -0.018 | - | 0.0023 | -0.0182 |
| 2095 | - | 0.001 | 0.001 | -0.006 | -0.006 | - | 0.0008 | -0.0064 |
| 2105 | - | 0.0003 | 0.0003 | -0.002 | -0.002 | - | 0.0003 | -0.0024 |

*Table D1.7 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 11.8 | -0.16 | 0.02 | -3.9 | -0.1 | 9.4 | 0.05 | 0.7 |
| 2006 | 11.8 | -0.03 | 0.19 | -6.7 | -2.0 | 9.2 | 0.25 | -0.7 |
| 2007 | 11.8 | 0.05 | 0.32 | -9.4 | -3.9 | 8.9 | 0.42 | -2.0 |
| 2008 | 11.8 | 0.12 | 0.44 | -12.0 | -5.5 | 8.5 | 0.56 | -3.1 |
| 2009 | 11.8 | 0.16 | 0.52 | -14.4 | -7.0 | 8.2 | 0.68 | -4.0 |
| 2010 | 11.8 | 0.18 | 0.59 | -16.7 | -8.3 | 7.9 | 0.78 | -4.8 |
| 2011 | 11.8 | 0.18 | 0.64 | -18.8 | -9.5 | 7.6 | 0.86 | -5.4 |
| 2012 | 11.8 | 0.17 | 0.68 | -20.8 | -10.6 | 7.3 | 0.92 | -6.0 |
| 2013 | 11.8 | 0.14 | 0.70 | -22.7 | -11.6 | 6.9 | 0.97 | -6.4 |
| 2014 | 11.8 | 0.10 | 0.70 | -24.5 | -12.4 | 6.6 | 1.01 | -6.7 |
| 2015 | 11.8 | 0.05 | 0.70 | -26.2 | -13.2 | 6.3 | 1.04 | -7.0 |
| 2016 | 11.8 | 0.00 | 0.69 | -27.8 | -14.0 | 6.0 | 1.06 | -7.2 |
| 2017 | 11.8 | -0.07 | 0.67 | -29.4 | -14.6 | 5.7 | 1.07 | -7.3 |
| 2018 | 11.8 | -0.15 | 0.64 | -30.9 | -15.2 | 5.4 | 1.07 | -7.3 |
| 2019 | 11.8 | -0.23 | 0.60 | -32.4 | -15.8 | 5.0 | 1.07 | -7.3 |
| 2020 | 11.8 | -0.32 | 0.56 | -33.8 | -16.3 | 4.7 | 1.06 | -7.3 |
| 2021 | 11.8 | -0.41 | 0.51 | -35.2 | -16.7 | 4.4 | 1.04 | -7.2 |
| 2022 | 11.8 | -0.51 | 0.46 | -36.6 | -17.1 | 4.1 | 1.02 | -7.1 |
| 2023 | 11.8 | -0.62 | 0.40 | -37.9 | -17.5 | 3.8 | 0.99 | -6.9 |
| 2024 | 11.8 | -0.73 | 0.34 | -39.2 | -17.9 | 3.4 | 0.96 | -6.7 |
| 2025 | 11.8 | -0.84 | 0.28 | -40.4 | -18.2 | 3.1 | 0.93 | -6.5 |
| 2026 | 11.8 | -0.95 | 0.21 | -41.7 | -18.5 | 2.8 | 0.89 | -6.3 |
| 2027 | 11.8 | -1.07 | 0.14 | -42.9 | -18.8 | 2.5 | 0.85 | -6.0 |
| 2028 | 11.8 | -1.19 | 0.07 | -44.1 | -19.1 | 2.2 | 0.81 | -5.8 |
| 2029 | 11.8 | -1.31 | -0.01 | -45.3 | -19.4 | 1.9 | 0.77 | -5.5 |
| 2030 | 11.8 | -1.43 | -0.08 | -46.4 | -19.6 | 1.5 | 0.72 | -5.2 |
| 2031 | 11.8 | -1.60 | -0.20 | -47.5 | -19.8 | 1.2 | 0.63 | -4.8 |
| 2035 | - | 0.41 | 0.41 | -3.2 | -3.2 | - | 0.41 | -3.2 |
| 2045 | - | 0.13 | 0.13 | -1.0 | -1.0 | - | 0.13 | -1.0 |
| 2055 | - | 0.04 | 0.04 | -0.3 | -0.3 | - | 0.04 | -0.3 |
| 2065 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.01 | -0.1 |
| 2075 | - | 0.004 | 0.004 | -0.03 | -0.03 | - | 0.0040 | -0.0313 |
| 2085 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.0013 | -0.0098 |
| 2095 | - | 0.0004 | 0.0004 | -0.003 | -0.003 | - | 0.0004 | -0.0031 |
| 2105 | - | 0.0001 | 0.0001 | -0.001 | -0.001 | - | 0.0001 | -0.0010 |

*Table D1.8 Combined Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 11.8 | -0.16 | 0.02 | -3.9 | -0.1 | 9.4 | 0.05 | 0.7 |
| 2006 | 11.8 | 0.05 | 0.23 | -5.5 | -1.5 | 9.2 | 0.25 | -0.7 |
| 2007 | 11.8 | 0.22 | 0.40 | -6.9 | -2.7 | 8.9 | 0.42 | -2.0 |
| 2008 | 11.8 | 0.36 | 0.55 | -8.2 | -3.7 | 8.6 | 0.56 | -3.1 |
| 2009 | 11.8 | 0.48 | 0.67 | -9.3 | -4.5 | 8.3 | 0.68 | -4.0 |
| 2010 | 11.8 | 0.59 | 0.78 | -10.3 | -5.2 | 8.0 | 0.78 | -4.8 |
| 2011 | 11.8 | 0.67 | 0.87 | -11.1 | -5.8 | 7.7 | 0.86 | -5.4 |
| 2012 | 11.8 | 0.74 | 0.94 | -11.8 | -6.3 | 7.4 | 0.93 | -6.0 |
| 2013 | 11.8 | 0.80 | 1.00 | -12.4 | -6.6 | 7.1 | 0.98 | -6.4 |
| 2014 | 11.8 | 0.84 | 1.05 | -12.9 | -6.9 | 6.8 | 1.02 | -6.7 |
| 2015 | 11.8 | 0.88 | 1.09 | -13.3 | -7.0 | 6.5 | 1.05 | -7.0 |
| 2016 | 11.8 | 0.90 | 1.11 | -13.7 | -7.1 | 6.3 | 1.07 | -7.2 |
| 2017 | 11.8 | 0.91 | 1.13 | -14.0 | -7.2 | 6.0 | 1.08 | -7.3 |
| 2018 | 11.8 | 0.92 | 1.14 | -14.2 | -7.2 | 5.7 | 1.08 | -7.4 |
| 2019 | 11.8 | 0.92 | 1.14 | -14.4 | -7.1 | 5.4 | 1.08 | -7.4 |
| 2020 | 11.8 | 0.92 | 1.14 | -14.5 | -7.0 | 5.1 | 1.07 | -7.3 |
| 2021 | 11.8 | 0.90 | 1.13 | -14.6 | -6.8 | 4.8 | 1.05 | -7.2 |
| 2022 | 11.8 | 0.89 | 1.12 | -14.6 | -6.6 | 4.6 | 1.03 | -7.1 |
| 2023 | 11.8 | 0.87 | 1.10 | -14.6 | -6.4 | 4.3 | 1.01 | -7.0 |
| 2024 | 11.8 | 0.84 | 1.08 | -14.6 | -6.1 | 4.0 | 0.98 | -6.8 |
| 2025 | 11.8 | 0.81 | 1.06 | -14.6 | -5.9 | 3.7 | 0.95 | -6.6 |
| 2026 | 11.8 | 0.78 | 1.03 | -14.5 | -5.6 | 3.4 | 0.92 | -6.4 |
| 2027 | 11.8 | 0.75 | 1.00 | -14.4 | -5.2 | 3.2 | 0.88 | -6.2 |
| 2028 | 11.8 | 0.72 | 0.97 | -14.3 | -4.9 | 2.9 | 0.84 | -5.9 |
| 2029 | 11.8 | 0.68 | 0.93 | -14.2 | -4.6 | 2.6 | 0.80 | -5.6 |
| 2030 | 11.8 | 0.64 | 0.90 | -14.0 | -4.2 | 2.3 | 0.76 | -5.3 |
| 2031 | 11.8 | 0.56 | 0.82 | -13.8 | -3.8 | 2.1 | 0.67 | -5.0 |
| 2035 | - | 0.44 | 0.44 | -3.4 | -3.4 | - | 0.44 | -3.4 |
| 2045 | - | 0.14 | 0.14 | -1.1 | -1.1 | - | 0.14 | -1.1 |
| 2055 | - | 0.05 | 0.05 | -0.4 | -0.4 | - | 0.05 | -0.4 |
| 2065 | - | 0.02 | 0.02 | -0.1 | -0.1 | - | 0.02 | -0.1 |
| 2075 | - | 0.01 | 0.01 | -0.04 | -0.04 | - | 0.005 | -0.041 |
| 2085 | - | 0.002 | 0.002 | -0.01 | -0.01 | - | 0.002 | -0.014 |
| 2095 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.001 | -0.005 |
| 2105 | - | 0.0003 | 0.0003 | -0.002 | -0.002 | - | 0.0003 | -0.002 |

## *D1.3 GREEN WASTE*

### *Table D1.9 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 10.6 | -0.07 | 0.06 | -2.3 | 0.5 | 8.4 | 0.04 | 0.7 |
| 2006 | 10.6 | 0.02 | 0.14 | -2.9 | -0.1 | 8.4 | 0.13 | 0.0 |
| 2007 | 10.6 | 0.09 | 0.22 | -3.5 | -0.7 | 8.4 | 0.20 | -0.5 |
| 2008 | 10.6 | 0.15 | 0.28 | -4.0 | -1.2 | 8.4 | 0.27 | -1.0 |
| 2009 | 10.6 | 0.21 | 0.34 | -4.5 | -1.6 | 8.4 | 0.32 | -1.5 |
| 2010 | 10.6 | 0.26 | 0.39 | -4.9 | -2.0 | 8.4 | 0.37 | -1.9 |
| 2011 | 10.6 | 0.31 | 0.43 | -5.2 | -2.4 | 8.4 | 0.42 | -2.3 |
| 2012 | 10.6 | 0.35 | 0.48 | -5.5 | -2.7 | 8.4 | 0.46 | -2.6 |
| 2013 | 10.6 | 0.39 | 0.51 | -5.8 | -3.0 | 8.4 | 0.50 | -2.9 |
| 2014 | 10.6 | 0.42 | 0.54 | -6.1 | -3.3 | 8.4 | 0.53 | -3.1 |
| 2015 | 10.6 | 0.45 | 0.57 | -6.3 | -3.5 | 8.4 | 0.56 | -3.3 |
| 2016 | 10.6 | 0.47 | 0.60 | -6.5 | -3.7 | 8.4 | 0.58 | -3.5 |
| 2017 | 10.6 | 0.50 | 0.62 | -6.7 | -3.9 | 8.4 | 0.61 | -3.7 |
| 2018 | 10.6 | 0.52 | 0.64 | -6.8 | -4.0 | 8.4 | 0.63 | -3.9 |
| 2019 | 10.6 | 0.54 | 0.66 | -7.0 | -4.2 | 8.4 | 0.65 | -4.0 |
| 2020 | 10.6 | 0.55 | 0.68 | -7.1 | -4.3 | 8.4 | 0.66 | -4.1 |
| 2021 | 10.6 | 0.57 | 0.69 | -7.2 | -4.4 | 8.4 | 0.68 | -4.3 |
| 2022 | 10.6 | 0.58 | 0.70 | -7.3 | -4.5 | 8.4 | 0.69 | -4.4 |
| 2023 | 10.6 | 0.59 | 0.72 | -7.4 | -4.6 | 8.4 | 0.70 | -4.5 |
| 2024 | 10.6 | 0.60 | 0.73 | -7.5 | -4.7 | 8.4 | 0.71 | -4.5 |
| 2025 | 10.6 | 0.61 | 0.74 | -7.6 | -4.8 | 8.4 | 0.72 | -4.6 |
| 2026 | 10.6 | 0.62 | 0.74 | -7.6 | -4.8 | 8.4 | 0.73 | -4.7 |
| 2027 | 10.6 | 0.63 | 0.75 | -7.7 | -4.9 | 8.4 | 0.74 | -4.7 |
| 2028 | 10.6 | 0.63 | 0.76 | -7.7 | -4.9 | 8.4 | 0.74 | -4.8 |
| 2029 | 10.6 | 0.64 | 0.76 | -7.8 | -5.0 | 8.4 | 0.75 | -4.8 |
| 2030 | 10.6 | 0.64 | 0.77 | -7.8 | -5.0 | 8.4 | 0.75 | -4.9 |
| 2031 | 10.6 | 0.65 | 0.77 | -7.9 | -5.1 | 8.4 | 0.76 | -4.9 |
| 2035 | - | 0.50 | 0.50 | -3.9 | -3.9 | - | 0.50 | -3.9 |
| 2045 | - | 0.16 | 0.16 | -1.3 | -1.3 | - | 0.16 | -1.3 |
| 2055 | - | 0.05 | 0.05 | -0.4 | -0.4 | - | 0.05 | -0.4 |
| 2065 | - | 0.02 | 0.02 | -0.1 | -0.1 | - | 0.02 | -0.1 |
| 2075 | - | 0.01 | 0.01 | -0.05 | -0.05 | - | 0.006 | -0.048 |
| 2085 | - | 0.002 | 0.002 | -0.02 | -0.02 | - | 0.002 | -0.017 |
| 2095 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.001 | -0.006 |
| 2105 | - | 0.0003 | 0.0003 | -0.002 | -0.002 | - | 0.0003 | -0.002 |

*Table D1.10 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 10.6 | -0.07 | 0.06 | -2.3 | 0.5 | 8.4 | 0.04 | 0.7 |
| 2006 | 10.6 | 0.03 | 0.15 | -2.9 | 0.0 | 8.2 | 0.13 | 0.0 |
| 2007 | 10.6 | 0.12 | 0.23 | -3.4 | -0.4 | 8.0 | 0.20 | -0.6 |
| 2008 | 10.6 | 0.19 | 0.30 | -3.8 | -0.7 | 7.7 | 0.25 | -1.0 |
| 2009 | 10.6 | 0.26 | 0.37 | -4.1 | -1.0 | 7.5 | 0.30 | -1.5 |
| 2010 | 10.6 | 0.31 | 0.42 | -4.4 | -1.2 | 7.3 | 0.35 | -1.8 |
| 2011 | 10.6 | 0.36 | 0.46 | -4.6 | -1.3 | 7.1 | 0.38 | -2.1 |
| 2012 | 10.6 | 0.41 | 0.50 | -4.8 | -1.4 | 6.9 | 0.41 | -2.4 |
| 2013 | 10.6 | 0.45 | 0.54 | -4.9 | -1.5 | 6.6 | 0.43 | -2.6 |
| 2014 | 10.6 | 0.48 | 0.57 | -5.0 | -1.5 | 6.4 | 0.45 | -2.7 |
| 2015 | 10.6 | 0.51 | 0.59 | -5.0 | -1.5 | 6.2 | 0.47 | -2.9 |
| 2016 | 10.6 | 0.53 | 0.62 | -5.0 | -1.4 | 6.0 | 0.48 | -3.0 |
| 2017 | 10.6 | 0.56 | 0.63 | -5.0 | -1.3 | 5.8 | 0.48 | -3.1 |
| 2018 | 10.6 | 0.58 | 0.65 | -5.0 | -1.2 | 5.6 | 0.49 | -3.1 |
| 2019 | 10.6 | 0.59 | 0.66 | -4.9 | -1.1 | 5.4 | 0.49 | -3.1 |
| 2020 | 10.6 | 0.61 | 0.67 | -4.8 | -1.0 | 5.2 | 0.49 | -3.2 |
| 2021 | 10.6 | 0.62 | 0.68 | -4.7 | -0.8 | 5.0 | 0.48 | -3.2 |
| 2022 | 10.6 | 0.63 | 0.68 | -4.6 | -0.6 | 4.8 | 0.48 | -3.1 |
| 2023 | 10.6 | 0.64 | 0.69 | -4.5 | -0.5 | 4.6 | 0.47 | -3.1 |
| 2024 | 10.6 | 0.64 | 0.69 | -4.3 | -0.3 | 4.4 | 0.46 | -3.1 |
| 2025 | 10.6 | 0.65 | 0.69 | -4.2 | 0.0 | 4.2 | 0.45 | -3.0 |
| 2026 | 10.6 | 0.65 | 0.69 | -4.0 | 0.2 | 4.0 | 0.44 | -2.9 |
| 2027 | 10.6 | 0.66 | 0.69 | -3.8 | 0.4 | 3.8 | 0.43 | -2.9 |
| 2028 | 10.6 | 0.66 | 0.69 | -3.6 | 0.6 | 3.6 | 0.41 | -2.8 |
| 2029 | 10.6 | 0.66 | 0.69 | -3.4 | 0.9 | 3.4 | 0.40 | -2.7 |
| 2030 | 10.6 | 0.66 | 0.69 | -3.2 | 1.1 | 3.2 | 0.38 | -2.6 |
| 2031 | 10.6 | 0.66 | 0.68 | -3.0 | 1.4 | 3.0 | 0.37 | -2.5 |
| 2035 | - | 0.25 | 0.25 | -1.9 | -1.9 | - | 0.25 | -1.9 |
| 2045 | - | 0.09 | 0.09 | -0.7 | -0.7 | - | 0.09 | -0.7 |
| 2055 | - | 0.03 | 0.03 | -0.3 | -0.3 | - | 0.03 | -0.3 |
| 2065 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.01 | -0.1 |
| 2075 | - | 0.01 | 0.01 | -0.04 | -0.04 | - | 0.005 | -0.039 |
| 2085 | - | 0.002 | 0.002 | -0.02 | -0.02 | - | 0.002 | -0.016 |
| 2095 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.001 | -0.007 |
| 2105 | - | 0.0004 | 0.0004 | -0.003 | -0.003 | - | 0.0004 | -0.003 |

*Table D1.11 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 10.6 | -0.07 | 0.06 | -2.3 | 0.5 | 8.4 | 0.04 | 0.7 |
| 2006 | 10.6 | -0.08 | 0.11 | -4.8 | -0.9 | 8.1 | 0.13 | 0.0 |
| 2007 | 10.6 | -0.10 | 0.14 | -7.1 | -2.1 | 7.8 | 0.20 | -0.6 |
| 2008 | 10.6 | -0.14 | 0.16 | -9.4 | -3.3 | 7.6 | 0.27 | -1.1 |
| 2009 | 10.6 | -0.19 | 0.17 | -11.7 | -4.5 | 7.3 | 0.32 | -1.5 |
| 2010 | 10.6 | -0.25 | 0.17 | -13.8 | -5.6 | 7.0 | 0.36 | -1.8 |
| 2011 | 10.6 | -0.31 | 0.16 | -15.9 | -6.6 | 6.7 | 0.40 | -2.1 |
| 2012 | 10.6 | -0.38 | 0.15 | -18.0 | -7.5 | 6.4 | 0.42 | -2.4 |
| 2013 | 10.6 | -0.46 | 0.13 | -20.0 | -8.4 | 6.1 | 0.45 | -2.6 |
| 2014 | 10.6 | -0.54 | 0.10 | -21.9 | -9.3 | 5.9 | 0.46 | -2.7 |
| 2015 | 10.6 | -0.63 | 0.07 | -23.9 | -10.1 | 5.6 | 0.47 | -2.9 |
| 2016 | 10.6 | -0.72 | 0.04 | -25.8 | -10.9 | 5.3 | 0.48 | -3.0 |
| 2017 | 10.6 | -0.82 | 0.00 | -27.6 | -11.7 | 5.0 | 0.49 | -3.0 |
| 2018 | 10.6 | -0.92 | -0.04 | -29.5 | -12.5 | 4.7 | 0.49 | -3.1 |
| 2019 | 10.6 | -1.02 | -0.08 | -31.3 | -13.2 | 4.5 | 0.48 | -3.1 |
| 2020 | 10.6 | -1.12 | -0.13 | -33.1 | -13.9 | 4.2 | 0.48 | -3.1 |
| 2021 | 10.6 | -1.23 | -0.18 | -34.9 | -14.6 | 3.9 | 0.47 | -3.0 |
| 2022 | 10.6 | -1.34 | -0.23 | -36.6 | -15.2 | 3.6 | 0.46 | -3.0 |
| 2023 | 10.6 | -1.45 | -0.28 | -38.4 | -15.9 | 3.3 | 0.45 | -2.9 |
| 2024 | 10.6 | -1.56 | -0.34 | -40.1 | -16.5 | 3.0 | 0.43 | -2.9 |
| 2025 | 10.6 | -1.68 | -0.40 | -41.8 | -17.2 | 2.8 | 0.42 | -2.8 |
| 2026 | 10.6 | -1.79 | -0.46 | -43.5 | -17.8 | 2.5 | 0.40 | -2.7 |
| 2027 | 10.6 | -1.91 | -0.51 | -45.2 | -18.4 | 2.2 | 0.38 | -2.6 |
| 2028 | 10.6 | -2.03 | -0.58 | -46.9 | -19.0 | 1.9 | 0.37 | -2.5 |
| 2029 | 10.6 | -2.15 | -0.64 | -48.6 | -19.6 | 1.6 | 0.35 | -2.4 |
| 2030 | 10.6 | -2.27 | -0.70 | -50.3 | -20.2 | 1.3 | 0.32 | -2.3 |
| 2031 | 10.6 | -2.41 | -0.78 | -52.0 | -20.8 | 1.1 | 0.29 | -2.1 |
| 2035 | - | 0.18 | 0.18 | -1.4 | -1.4 | - | 0.18 | -1.4 |
| 2045 | - | 0.06 | 0.06 | -0.5 | -0.5 | - | 0.06 | -0.5 |
| 2055 | - | 0.02 | 0.02 | -0.1 | -0.1 | - | 0.02 | -0.1 |
| 2065 | - | 0.01 | 0.01 | -0.05 | -0.05 | - | 0.006 | -0.049 |
| 2075 | - | 0.002 | 0.002 | -0.02 | -0.02 | - | 0.002 | -0.016 |
| 2085 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.001 | -0.005 |
| 2095 | - | 0.0002 | 0.0002 | -0.002 | -0.002 | - | 0.0002 | -0.002 |
| 2105 | - | 0.0001 | 0.0001 | -0.001 | -0.001 | - | 0.0001 | -0.001 |

## *D1.4 AGRICULTURAL CROP WASTE*

### *Table D1.12 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 6.6 | -0.15 | -0.03 | -10.3 | -0.5 | 0.01 | 0.00005 | 0.00079 |
| 2006 | 6.6 | -0.15 | -0.03 | -10.3 | -0.5 | 0.01 | 0.00006 | 0.00073 |
| 2007 | 6.6 | -0.15 | -0.03 | -10.3 | -0.5 | 0.01 | 0.00007 | 0.00066 |
| 2008 | 6.6 | -0.15 | -0.03 | -10.3 | -0.5 | 0.01 | 0.00008 | 0.00061 |
| 2009 | 6.6 | -0.15 | -0.03 | -10.3 | -0.5 | 0.01 | 0.00008 | 0.00056 |
| 2010 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00009 | 0.00051 |
| 2011 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00009 | 0.00048 |
| 2012 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00010 | 0.00044 |
| 2013 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00010 | 0.00041 |
| 2014 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00011 | 0.00038 |
| 2015 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00011 | 0.00036 |
| 2016 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00011 | 0.00034 |
| 2017 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00011 | 0.00032 |
| 2018 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00012 | 0.00030 |
| 2019 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00012 | 0.00028 |
| 2020 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00012 | 0.00027 |
| 2021 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00012 | 0.00026 |
| 2022 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00012 | 0.00025 |
| 2023 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00012 | 0.00024 |
| 2024 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00013 | 0.00023 |
| 2025 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00013 | 0.00022 |
| 2026 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00013 | 0.00021 |
| 2027 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00013 | 0.00021 |
| 2028 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00013 | 0.00020 |
| 2029 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00013 | 0.00020 |
| 2030 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00013 | 0.00019 |
| 2031 | 6.6 | -0.15 | -0.02 | -10.3 | -0.5 | 0.01 | 0.00013 | 0.00019 |
| 2035 | - | 0.0001 | 0.0001 | -0.0004 | -0.0004 | - | 0.00005 | -0.00043 |
| 2045 | - | 0.00002 | 0.00002 | -0.0001 | -0.0001 | - | 0.00002 | -0.00013 |
| 2055 | - | 0.00001 | 0.00001 | -0.00004 | -0.00004 | - | 0.00001 | -0.00004 |
| 2065 | - | 0.000002 | 0.000002 | -0.00001 | -0.00001 | - | 0.000002 | -0.000013 |
| 2075 | - | 0.000001 | 0.000001 | -0.000004 | -0.000004 | - | 0.000001 | -0.000004 |
| 2085 | - | 0.0000002 | 0.0000002 | -0.000001 | -0.000001 | - | 0.0000002 | -0.0000013 |
| 2095 | - | 0.0000001 | 0.0000001 | -0.0000004 | -0.0000004 | - | 0.0000001 | -0.0000004 |
| 2105 | - | 0.00000002 | 0.00000002 | -0.0000001 | -0.0000001 | - | 0.00000002 | -0.0000001 |

*Table D1.13 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 6.6 | -0.15 | -0.03 | -10.3 | -0.5 | 0.01 | 0.00005 | 0.0008 |
| 2006 | 6.6 | -0.14 | -0.02 | -10.1 | -0.4 | 0.02 | 0.00010 | 0.0012 |
| 2007 | 6.6 | -0.13 | -0.02 | -9.9 | -0.4 | 0.02 | 0.00018 | 0.0014 |
| 2008 | 6.6 | -0.12 | -0.01 | -9.7 | -0.3 | 0.03 | 0.00029 | 0.0013 |
| 2009 | 6.6 | -0.12 | -0.01 | -9.5 | -0.3 | 0.04 | 0.00044 | 0.0011 |
| 2010 | 6.6 | -0.11 | -0.01 | -9.3 | -0.2 | 0.05 | 0.00064 | 0.0005 |
| 2011 | 6.6 | -0.10 | 0.00 | -9.1 | -0.2 | 0.05 | 0.00086 | -0.0002 |
| 2012 | 6.6 | -0.09 | 0.00 | -8.9 | -0.1 | 0.06 | 0.0011 | -0.0012 |
| 2013 | 6.6 | -0.09 | 0.01 | -8.7 | -0.1 | 0.07 | 0.0014 | -0.0024 |
| 2014 | 6.6 | -0.08 | 0.01 | -8.5 | 0.0 | 0.08 | 0.0018 | -0.0039 |
| 2015 | 6.6 | -0.07 | 0.02 | -8.3 | 0.0 | 0.09 | 0.0021 | -0.0056 |
| 2016 | 6.6 | -0.06 | 0.02 | -8.1 | 0.1 | 0.10 | 0.0026 | -0.0075 |
| 2017 | 6.6 | -0.05 | 0.02 | -7.9 | 0.1 | 0.12 | 0.0030 | -0.0097 |
| 2018 | 6.6 | -0.04 | 0.03 | -7.7 | 0.2 | 0.13 | 0.0035 | -0.0121 |
| 2019 | 6.6 | -0.04 | 0.03 | -7.5 | 0.2 | 0.14 | 0.0040 | -0.0148 |
| 2020 | 6.6 | -0.03 | 0.04 | -7.3 | 0.3 | 0.15 | 0.0046 | -0.0177 |
| 2021 | 6.6 | -0.02 | 0.04 | -7.1 | 0.3 | 0.17 | 0.0052 | -0.0209 |
| 2022 | 6.6 | -0.01 | 0.05 | -6.9 | 0.4 | 0.18 | 0.0058 | -0.0243 |
| 2023 | 6.6 | -0.003 | 0.05 | -6.7 | 0.4 | 0.20 | 0.0065 | -0.0279 |
| 2024 | 6.6 | 0.005 | 0.06 | -6.5 | 0.5 | 0.21 | 0.0072 | -0.0318 |
| 2025 | 6.6 | 0.01 | 0.06 | -6.3 | 0.5 | 0.23 | 0.0080 | -0.0359 |
| 2026 | 6.6 | 0.02 | 0.07 | -6.0 | 0.6 | 0.24 | 0.0088 | -0.0403 |
| 2027 | 6.6 | 0.03 | 0.07 | -5.8 | 0.6 | 0.26 | 0.0096 | -0.0449 |
| 2028 | 6.6 | 0.04 | 0.08 | -5.6 | 0.7 | 0.27 | 0.0105 | -0.0497 |
| 2029 | 6.6 | 0.05 | 0.08 | -5.4 | 0.7 | 0.29 | 0.0114 | -0.0548 |
| 2030 | 6.6 | 0.06 | 0.08 | -5.2 | 0.8 | 0.31 | 0.0124 | -0.0602 |
| 2031 | 6.6 | 0.06 | 0.09 | -5.0 | 0.8 | 0.33 | 0.0134 | -0.0650 |
| 2035 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.0100 | -0.0781 |
| 2045 | - | 0.005 | 0.005 | -0.04 | -0.04 | - | 0.0047 | -0.0365 |
| 2055 | - | 0.002 | 0.002 | -0.02 | -0.02 | - | 0.0022 | -0.0171 |
| 2065 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.0010 | -0.0080 |
| 2075 | - | 0.0005 | 0.0005 | -0.004 | -0.004 | - | 0.0005 | -0.0037 |
| 2085 | - | 0.0002 | 0.0002 | -0.002 | -0.002 | - | 0.0002 | -0.0017 |
| 2095 | - | 0.0001 | 0.0001 | -0.001 | -0.001 | - | 0.0001 | -0.0008 |
| 2105 | - | 0.00005 | 0.00005 | -0.0004 | -0.0004 | - | 0.00005 | -0.0004 |

*Table D1.14 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 6.6 | -0.15 | -0.03 | -10.3 | -0.5 | 0.01 | 0.00005 | 0.0008 |
| 2006 | 6.6 | -0.22 | -0.05 | -11.5 | -1.0 | 0.02 | 0.00010 | 0.0012 |
| 2007 | 6.6 | -0.31 | -0.08 | -12.8 | -1.4 | 0.02 | 0.00014 | 0.0016 |
| 2008 | 6.6 | -0.39 | -0.11 | -14.1 | -1.9 | 0.03 | 0.00019 | 0.0019 |
| 2009 | 6.6 | -0.48 | -0.14 | -15.5 | -2.4 | 0.03 | 0.00024 | 0.0022 |
| 2010 | 6.6 | -0.57 | -0.17 | -16.9 | -3.0 | 0.04 | 0.00030 | 0.0025 |
| 2011 | 6.6 | -0.66 | -0.20 | -18.4 | -3.5 | 0.05 | 0.00035 | 0.0028 |
| 2012 | 6.6 | -0.76 | -0.23 | -19.9 | -4.1 | 0.05 | 0.00041 | 0.0030 |
| 2013 | 6.6 | -0.86 | -0.27 | -21.4 | -4.7 | 0.06 | 0.00048 | 0.0033 |
| 2014 | 6.6 | -0.96 | -0.30 | -23.1 | -5.3 | 0.06 | 0.00054 | 0.0035 |
| 2015 | 6.6 | -1.07 | -0.34 | -24.7 | -5.9 | 0.07 | 0.00061 | 0.0037 |
| 2016 | 6.6 | -1.17 | -0.37 | -26.4 | -6.5 | 0.08 | 0.00067 | 0.0039 |
| 2017 | 6.6 | -1.29 | -0.41 | -28.2 | -7.2 | 0.08 | 0.00074 | 0.0040 |
| 2018 | 6.6 | -1.40 | -0.45 | -30.0 | -7.8 | 0.09 | 0.00081 | 0.0042 |
| 2019 | 6.6 | -1.52 | -0.49 | -31.9 | -8.5 | 0.09 | 0.00088 | 0.0044 |
| 2020 | 6.6 | -1.64 | -0.53 | -33.8 | -9.2 | 0.10 | 0.00096 | 0.0045 |
| 2021 | 6.6 | -1.76 | -0.57 | -35.8 | -9.9 | 0.11 | 0.00103 | 0.0047 |
| 2022 | 6.6 | -1.88 | -0.62 | -37.8 | -10.7 | 0.11 | 0.00110 | 0.0048 |
| 2023 | 6.6 | -2.01 | -0.66 | -39.9 | -11.4 | 0.12 | 0.00118 | 0.0050 |
| 2024 | 6.6 | -2.15 | -0.70 | -42.0 | -12.2 | 0.12 | 0.00125 | 0.0051 |
| 2025 | 6.6 | -2.28 | -0.75 | -44.2 | -13.0 | 0.13 | 0.00133 | 0.0052 |
| 2026 | 6.6 | -2.42 | -0.80 | -46.4 | -13.8 | 0.14 | 0.00140 | 0.0054 |
| 2027 | 6.6 | -2.56 | -0.85 | -48.7 | -14.7 | 0.14 | 0.00148 | 0.0055 |
| 2028 | 6.6 | -2.70 | -0.90 | -51.0 | -15.5 | 0.15 | 0.00155 | 0.0056 |
| 2029 | 6.6 | -2.85 | -0.95 | -53.4 | -16.4 | 0.15 | 0.00163 | 0.0057 |
| 2030 | 6.6 | -3.00 | -1.00 | -55.8 | -17.2 | 0.16 | 0.00171 | 0.0058 |
| 2031 | 6.6 | -3.15 | -1.05 | -58.3 | -18.1 | 0.17 | 0.00179 | 0.0060 |
| 2035 | - | 0.001 | 0.001 | -0.005 | -0.005 | - | 0.00067 | -0.0052 |
| 2045 | - | 0.0002 | 0.0002 | -0.002 | -0.002 | - | 0.00021 | -0.0016 |
| 2055 | - | 0.0001 | 0.0001 | -0.001 | -0.001 | - | 0.00007 | -0.0005 |
| 2065 | - | 0.00002 | 0.00002 | -0.0002 | -0.0002 | - | 0.00002 | -0.0002 |
| 2075 | - | 0.00001 | 0.00001 | -0.0001 | -0.0001 | - | 0.00001 | -0.0001 |
| 2085 | - | 0.000002 | 0.000002 | -0.00002 | -0.00002 | - | 0.000002 | -0.000016 |
| 2095 | - | 0.000001 | 0.000001 | -0.000005 | -0.000005 | - | 0.000001 | -0.000005 |
| 2105 | - | 0.0000002 | 0.0000002 | -0.000002 | -0.000002 | - | 0.0000002 | -0.000002 |

## *D1.5 MANURE AND SLURRY*

### *Table D1.15 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|
| 2005 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2006 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2007 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2008 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2009 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2010 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2011 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2012 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2013 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2014 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2015 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2016 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2017 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2018 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2019 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2020 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2021 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2022 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2023 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2024 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2025 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2026 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2027 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2028 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2029 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2030 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2031 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2035 | - | - | - | - | - |
| 2045 | - | - | - | - | - |
| 2055 | - | - | - | - | - |
| 2065 | - | - | - | - | - |
| 2075 | - | - | - | - | - |
| 2085 | - | - | - | - | - |
| 2095 | - | - | - | - | - |
| 2105 | - | - | - | - | - |

*Table D1.16 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|
| 2005 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2006 | 83.0 | -0.28 | 0.22 | -106.1 | 2.9 |
| 2007 | 83.0 | -0.25 | 0.25 | -105.0 | 3.3 |
| 2008 | 83.0 | -0.22 | 0.28 | -103.9 | 3.7 |
| 2009 | 83.0 | -0.18 | 0.31 | -102.8 | 4.0 |
| 2010 | 83.0 | -0.15 | 0.34 | -101.7 | 4.3 |
| 2011 | 83.0 | -0.12 | 0.37 | -100.5 | 4.7 |
| 2012 | 83.0 | -0.08 | 0.40 | -99.4 | 5.1 |
| 2013 | 83.0 | -0.05 | 0.43 | -98.3 | 5.4 |
| 2014 | 83.0 | -0.01 | 0.46 | -97.2 | 5.8 |
| 2015 | 83.0 | 0.02 | 0.49 | -96.0 | 6.2 |
| 2016 | 83.0 | 0.06 | 0.52 | -94.9 | 6.6 |
| 2017 | 83.0 | 0.09 | 0.55 | -93.8 | 6.9 |
| 2018 | 83.0 | 0.13 | 0.58 | -92.7 | 7.3 |
| 2019 | 83.0 | 0.16 | 0.61 | -91.5 | 7.7 |
| 2020 | 83.0 | 0.20 | 0.64 | -90.4 | 8.1 |
| 2021 | 83.0 | 0.24 | 0.67 | -89.3 | 8.4 |
| 2022 | 83.0 | 0.27 | 0.70 | -88.2 | 8.8 |
| 2023 | 83.0 | 0.31 | 0.73 | -87.0 | 9.2 |
| 2024 | 83.0 | 0.34 | 0.76 | -85.9 | 9.5 |
| 2025 | 83.0 | 0.38 | 0.80 | -84.8 | 9.9 |
| 2026 | 83.0 | 0.41 | 0.83 | -83.7 | 10.3 |
| 2027 | 83.0 | 0.45 | 0.86 | -82.5 | 10.7 |
| 2028 | 83.0 | 0.48 | 0.89 | -81.4 | 11.0 |
| 2029 | 83.0 | 0.52 | 0.92 | -80.3 | 11.4 |
| 2030 | 83.0 | 0.56 | 0.95 | -79.2 | 11.8 |
| 2031 | 83.0 | 0.59 | 0.98 | -78.0 | 12.1 |
| 2035 | - | - | - | - | - |
| 2045 | - | - | - | - | - |
| 2055 | - | - | - | - | - |
| 2065 | - | - | - | - | - |
| 2075 | - | - | - | - | - |
| 2085 | - | - | - | - | - |
| 2095 | - | - | - | - | - |
| 2105 | - | - | - | - | - |

*Table D1.17 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|
| 2005 | 83.0 | -0.32 | 0.19 | -107.2 | 2.6 |
| 2006 | 83.0 | -0.77 | 0.01 | -113.5 | -0.6 |
| 2007 | 83.0 | -1.22 | -0.17 | -119.9 | -3.9 |
| 2008 | 83.0 | -1.67 | -0.36 | -126.3 | -7.1 |
| 2009 | 83.0 | -2.12 | -0.55 | -132.7 | -10.3 |
| 2010 | 83.0 | -2.57 | -0.73 | -139.1 | -13.6 |
| 2011 | 83.0 | -3.02 | -0.92 | -145.4 | -16.8 |
| 2012 | 83.0 | -3.47 | -1.10 | -151.8 | -20.0 |
| 2013 | 83.0 | -3.92 | -1.29 | -158.1 | -23.2 |
| 2014 | 83.0 | -4.37 | -1.47 | -164.5 | -26.4 |
| 2015 | 83.0 | -4.82 | -1.66 | -170.9 | -29.6 |
| 2016 | 83.0 | -5.27 | -1.84 | -177.2 | -32.8 |
| 2017 | 83.0 | -5.72 | -2.03 | -183.5 | -36.0 |
| 2018 | 83.0 | -6.16 | -2.21 | -189.9 | -39.2 |
| 2019 | 83.0 | -6.61 | -2.39 | -196.2 | -42.4 |
| 2020 | 83.0 | -7.06 | -2.58 | -202.6 | -45.6 |
| 2021 | 83.0 | -7.51 | -2.76 | -208.9 | -48.8 |
| 2022 | 83.0 | -7.96 | -2.95 | -215.3 | -52.0 |
| 2023 | 83.0 | -8.41 | -3.13 | -221.7 | -55.2 |
| 2024 | 83.0 | -8.85 | -3.31 | -228.0 | -58.4 |
| 2025 | 83.0 | -9.30 | -3.50 | -234.4 | -61.6 |
| 2026 | 83.0 | -9.75 | -3.68 | -240.7 | -64.8 |
| 2027 | 83.0 | -10.20 | -3.87 | -247.1 | -68.0 |
| 2028 | 83.0 | -10.65 | -4.05 | -253.4 | -71.2 |
| 2029 | 83.0 | -11.10 | -4.23 | -259.8 | -74.4 |
| 2030 | 83.0 | -11.55 | -4.42 | -266.1 | -77.6 |
| 2031 | 83.0 | -11.99 | -4.60 | -272.5 | -80.8 |
| 2035 | - | - | - | - | - |
| 2045 | - | - | - | - | - |
| 2055 | - | - | - | - | - |
| 2065 | - | - | - | - | - |
| 2075 | - | - | - | - | - |
| 2085 | - | - | - | - | - |
| 2095 | - | - | - | - | - |
| 2105 | - | - | - | - | - |

## *D1.6 OTHER ORGANIC WASTE*

### *Table D1.18 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 4.0 | -0.20 | -0.03 | -7.4 | -0.6 | 0.4 | 0.002 | 0.04 |
| 2006 | 4.0 | -0.20 | -0.02 | -7.5 | -0.7 | 0.4 | 0.010 | -0.03 |
| 2007 | 4.0 | -0.19 | -0.01 | -7.5 | -0.7 | 0.4 | 0.016 | -0.08 |
| 2008 | 4.0 | -0.19 | -0.01 | -7.6 | -0.8 | 0.4 | 0.022 | -0.12 |
| 2009 | 4.0 | -0.18 | 0.00 | -7.6 | -0.8 | 0.4 | 0.027 | -0.16 |
| 2010 | 4.0 | -0.18 | 0.00 | -7.7 | -0.9 | 0.4 | 0.031 | -0.20 |
| 2011 | 4.0 | -0.17 | 0.01 | -7.7 | -0.9 | 0.4 | 0.035 | -0.23 |
| 2012 | 4.0 | -0.17 | 0.01 | -7.7 | -0.9 | 0.4 | 0.039 | -0.26 |
| 2013 | 4.0 | -0.16 | 0.01 | -7.7 | -0.9 | 0.4 | 0.042 | -0.29 |
| 2014 | 4.0 | -0.16 | 0.02 | -7.8 | -1.0 | 0.4 | 0.045 | -0.31 |
| 2015 | 4.0 | -0.16 | 0.02 | -7.8 | -1.0 | 0.4 | 0.048 | -0.33 |
| 2016 | 4.0 | -0.16 | 0.02 | -7.8 | -1.0 | 0.4 | 0.050 | -0.35 |
| 2017 | 4.0 | -0.15 | 0.02 | -7.8 | -1.0 | 0.4 | 0.052 | -0.36 |
| 2018 | 4.0 | -0.15 | 0.03 | -7.8 | -1.0 | 0.4 | 0.054 | -0.38 |
| 2019 | 4.0 | -0.15 | 0.03 | -7.8 | -1.0 | 0.4 | 0.055 | -0.39 |
| 2020 | 4.0 | -0.15 | 0.03 | -7.9 | -1.1 | 0.4 | 0.057 | -0.40 |
| 2021 | 4.0 | -0.15 | 0.03 | -7.9 | -1.1 | 0.4 | 0.058 | -0.41 |
| 2022 | 4.0 | -0.15 | 0.03 | -7.9 | -1.1 | 0.4 | 0.059 | -0.42 |
| 2023 | 4.0 | -0.15 | 0.03 | -7.9 | -1.1 | 0.4 | 0.060 | -0.43 |
| 2024 | 4.0 | -0.15 | 0.03 | -7.9 | -1.1 | 0.4 | 0.061 | -0.43 |
| 2025 | 4.0 | -0.14 | 0.03 | -7.9 | -1.1 | 0.4 | 0.062 | -0.44 |
| 2026 | 4.0 | -0.14 | 0.03 | -7.9 | -1.1 | 0.4 | 0.063 | -0.45 |
| 2027 | 4.0 | -0.14 | 0.03 | -7.9 | -1.1 | 0.4 | 0.063 | -0.45 |
| 2028 | 4.0 | -0.14 | 0.04 | -7.9 | -1.1 | 0.4 | 0.064 | -0.46 |
| 2029 | 4.0 | -0.14 | 0.04 | -7.9 | -1.1 | 0.4 | 0.064 | -0.46 |
| 2030 | 4.0 | -0.14 | 0.04 | -7.9 | -1.1 | 0.4 | 0.065 | -0.46 |
| 2031 | 4.0 | -0.14 | 0.04 | -7.9 | -1.1 | 0.4 | 0.065 | -0.46 |
| 2035 | - | 0.04 | 0.04 | -0.3 | -0.3 | - | 0.040 | -0.32 |
| 2045 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.013 | -0.10 |
| 2055 | - | 0.004 | 0.004 | -0.03 | -0.03 | - | 0.004 | -0.03 |
| 2065 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.001 | -0.010 |
| 2075 | - | 0.0004 | 0.0004 | -0.003 | -0.003 | - | 0.0004 | -0.003 |
| 2085 | - | 0.0001 | 0.0001 | -0.001 | -0.001 | - | 0.0001 | -0.001 |
| 2095 | - | 0.00004 | 0.00004 | -0.0003 | -0.0003 | - | 0.00004 | -0.00030 |
| 2105 | - | 0.00001 | 0.00001 | -0.0001 | -0.0001 | - | 0.00001 | -0.00009 |

*Table D1.19 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 4.0 | -0.20 | -0.03 | -7.4 | -0.6 | 0.45 | 0.002 | 0.04 |
| 2006 | 4.0 | -0.19 | -0.01 | -7.3 | -0.6 | 0.45 | 0.010 | -0.02 |
| 2007 | 4.0 | -0.17 | 0.00 | -7.1 | -0.6 | 0.45 | 0.016 | -0.07 |
| 2008 | 4.0 | -0.15 | 0.01 | -7.0 | -0.6 | 0.45 | 0.022 | -0.12 |
| 2009 | 4.0 | -0.14 | 0.02 | -6.8 | -0.5 | 0.45 | 0.027 | -0.16 |
| 2010 | 4.0 | -0.12 | 0.03 | -6.7 | -0.5 | 0.45 | 0.032 | -0.20 |
| 2011 | 4.0 | -0.11 | 0.03 | -6.5 | -0.5 | 0.46 | 0.036 | -0.23 |
| 2012 | 4.0 | -0.09 | 0.04 | -6.3 | -0.4 | 0.46 | 0.040 | -0.26 |
| 2013 | 4.0 | -0.08 | 0.05 | -6.1 | -0.4 | 0.46 | 0.043 | -0.29 |
| 2014 | 4.0 | -0.06 | 0.06 | -6.0 | -0.3 | 0.47 | 0.046 | -0.31 |
| 2015 | 4.0 | -0.05 | 0.07 | -5.8 | -0.3 | 0.47 | 0.049 | -0.33 |
| 2016 | 4.0 | -0.04 | 0.07 | -5.6 | -0.2 | 0.47 | 0.052 | -0.35 |
| 2017 | 4.0 | -0.02 | 0.08 | -5.4 | -0.2 | 0.48 | 0.054 | -0.37 |
| 2018 | 4.0 | -0.01 | 0.09 | -5.2 | -0.1 | 0.48 | 0.056 | -0.38 |
| 2019 | 4.0 | 0.00 | 0.09 | -5.0 | -0.1 | 0.48 | 0.058 | -0.40 |
| 2020 | 4.0 | 0.01 | 0.10 | -4.9 | 0.0 | 0.49 | 0.060 | -0.41 |
| 2021 | 4.0 | 0.03 | 0.10 | -4.7 | 0.1 | 0.49 | 0.061 | -0.42 |
| 2022 | 4.0 | 0.04 | 0.11 | -4.5 | 0.1 | 0.50 | 0.063 | -0.43 |
| 2023 | 4.0 | 0.05 | 0.12 | -4.3 | 0.2 | 0.51 | 0.064 | -0.44 |
| 2024 | 4.0 | 0.06 | 0.12 | -4.1 | 0.2 | 0.51 | 0.065 | -0.45 |
| 2025 | 4.0 | 0.08 | 0.13 | -3.9 | 0.3 | 0.52 | 0.067 | -0.46 |
| 2026 | 4.0 | 0.09 | 0.13 | -3.7 | 0.4 | 0.52 | 0.068 | -0.47 |
| 2027 | 4.0 | 0.10 | 0.14 | -3.5 | 0.4 | 0.53 | 0.069 | -0.48 |
| 2028 | 4.0 | 0.11 | 0.15 | -3.3 | 0.5 | 0.54 | 0.070 | -0.49 |
| 2029 | 4.0 | 0.12 | 0.15 | -3.1 | 0.6 | 0.54 | 0.071 | -0.49 |
| 2030 | 4.0 | 0.14 | 0.16 | -2.9 | 0.6 | 0.55 | 0.072 | -0.50 |
| 2031 | 4.0 | 0.15 | 0.16 | -2.7 | 0.7 | 0.56 | 0.073 | -0.50 |
| 2035 | - | 0.05 | 0.05 | -0.4 | -0.4 | - | 0.051 | -0.40 |
| 2045 | - | 0.02 | 0.02 | -0.1 | -0.1 | - | 0.017 | -0.13 |
| 2055 | - | 0.01 | 0.01 | -0.04 | -0.04 | - | 0.006 | -0.045 |
| 2065 | - | 0.002 | 0.002 | -0.02 | -0.02 | - | 0.002 | -0.015 |
| 2075 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.001 | -0.006 |
| 2085 | - | 0.0003 | 0.0003 | -0.002 | -0.002 | - | 0.0003 | -0.002 |
| 2095 | - | 0.0001 | 0.0001 | -0.001 | -0.001 | - | 0.0001 | -0.001 |
| 2105 | - | 0.00004 | 0.00004 | -0.0003 | -0.0003 | - | 0.00004 | -0.00032 |

*Table D1.20 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 4.0 | -0.20 | -0.03 | -7.4 | -0.6 | 0.45 | 0.002 | 0.04 |
| 2006 | 4.0 | -0.25 | -0.04 | -8.2 | -1.1 | 0.46 | 0.010 | -0.02 |
| 2007 | 4.0 | -0.29 | -0.05 | -9.0 | -1.5 | 0.48 | 0.017 | -0.07 |
| 2008 | 4.0 | -0.34 | -0.06 | -9.8 | -1.8 | 0.50 | 0.022 | -0.12 |
| 2009 | 4.0 | -0.39 | -0.07 | -10.6 | -2.2 | 0.51 | 0.028 | -0.16 |
| 2010 | 4.0 | -0.44 | -0.09 | -11.5 | -2.6 | 0.53 | 0.032 | -0.19 |
| 2011 | 4.0 | -0.49 | -0.10 | -12.4 | -2.9 | 0.54 | 0.037 | -0.22 |
| 2012 | 4.0 | -0.54 | -0.12 | -13.2 | -3.3 | 0.56 | 0.040 | -0.25 |
| 2013 | 4.0 | -0.60 | -0.13 | -14.1 | -3.7 | 0.57 | 0.044 | -0.28 |
| 2014 | 4.0 | -0.65 | -0.15 | -15.1 | -4.1 | 0.59 | 0.047 | -0.30 |
| 2015 | 4.0 | -0.71 | -0.17 | -16.0 | -4.5 | 0.60 | 0.049 | -0.32 |
| 2016 | 4.0 | -0.77 | -0.19 | -17.0 | -4.9 | 0.62 | 0.052 | -0.33 |
| 2017 | 4.0 | -0.83 | -0.21 | -17.9 | -5.3 | 0.64 | 0.054 | -0.35 |
| 2018 | 4.0 | -0.90 | -0.23 | -18.9 | -5.7 | 0.65 | 0.056 | -0.36 |
| 2019 | 4.0 | -0.96 | -0.25 | -19.9 | -6.1 | 0.67 | 0.058 | -0.38 |
| 2020 | 4.0 | -1.02 | -0.27 | -21.0 | -6.6 | 0.68 | 0.059 | -0.39 |
| 2021 | 4.0 | -1.09 | -0.29 | -22.0 | -7.0 | 0.70 | 0.061 | -0.40 |
| 2022 | 4.0 | -1.16 | -0.32 | -23.1 | -7.4 | 0.71 | 0.062 | -0.41 |
| 2023 | 4.0 | -1.23 | -0.34 | -24.2 | -7.9 | 0.73 | 0.063 | -0.41 |
| 2024 | 4.0 | -1.30 | -0.36 | -25.3 | -8.3 | 0.75 | 0.065 | -0.42 |
| 2025 | 4.0 | -1.37 | -0.39 | -26.5 | -8.8 | 0.76 | 0.066 | -0.43 |
| 2026 | 4.0 | -1.45 | -0.41 | -27.6 | -9.3 | 0.78 | 0.066 | -0.43 |
| 2027 | 4.0 | -1.52 | -0.44 | -28.8 | -9.7 | 0.79 | 0.067 | -0.44 |
| 2028 | 4.0 | -1.60 | -0.46 | -30.0 | -10.2 | 0.81 | 0.068 | -0.44 |
| 2029 | 4.0 | -1.68 | -0.49 | -31.2 | -10.7 | 0.82 | 0.069 | -0.44 |
| 2030 | 4.0 | -1.76 | -0.52 | -32.5 | -11.2 | 0.84 | 0.069 | -0.45 |
| 2031 | 4.0 | -1.84 | -0.55 | -33.7 | -11.7 | 0.85 | 0.070 | -0.44 |
| 2035 | - | 0.05 | 0.05 | -0.4 | -0.4 | - | 0.047 | -0.36 |
| 2045 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.015 | -0.11 |
| 2055 | - | 0.005 | 0.005 | -0.04 | -0.04 | - | 0.005 | -0.036 |
| 2065 | - | 0.001 | 0.001 | -0.01 | -0.01 | - | 0.001 | -0.011 |
| 2075 | - | 0.0004 | 0.0004 | -0.004 | -0.004 | - | 0.0004 | -0.004 |
| 2085 | - | 0.0001 | 0.0001 | -0.001 | -0.001 | - | 0.0001 | -0.001 |
| 2095 | - | 0.00004 | 0.00004 | -0.0003 | -0.0003 | - | 0.00004 | -0.0003 |
| 2105 | - | 0.00001 | 0.00001 | -0.0001 | -0.0001 | - | 0.00001 | -0.0001 |

*Table D1.21 Combined Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 4.0 | -0.20 | -0.03 | -7.4 | -0.6 | 0.45 | 0.002 | 0.035 |
| 2006 | 4.0 | -0.21 | -0.02 | -7.6 | -0.7 | 0.46 | 0.013 | 0.036 |
| 2007 | 4.0 | -0.22 | -0.01 | -7.8 | -0.8 | 0.47 | 0.023 | 0.037 |
| 2008 | 4.0 | -0.22 | -0.01 | -8.0 | -0.9 | 0.47 | 0.031 | 0.037 |
| 2009 | 4.0 | -0.23 | -0.01 | -8.2 | -1.0 | 0.48 | 0.039 | 0.038 |
| 2010 | 4.0 | -0.24 | -0.01 | -8.4 | -1.1 | 0.49 | 0.046 | 0.039 |
| 2011 | 4.0 | -0.25 | -0.01 | -8.7 | -1.2 | 0.50 | 0.052 | 0.040 |
| 2012 | 4.0 | -0.27 | -0.01 | -8.9 | -1.3 | 0.51 | 0.058 | 0.040 |
| 2013 | 4.0 | -0.28 | -0.01 | -9.1 | -1.4 | 0.53 | 0.063 | 0.041 |
| 2014 | 4.0 | -0.29 | -0.01 | -9.4 | -1.5 | 0.54 | 0.067 | 0.042 |
| 2015 | 4.0 | -0.31 | -0.01 | -9.6 | -1.6 | 0.55 | 0.072 | 0.043 |
| 2016 | 4.0 | -0.32 | -0.01 | -9.9 | -1.7 | 0.56 | 0.075 | 0.044 |
| 2017 | 4.0 | -0.34 | -0.01 | -10.1 | -1.8 | 0.57 | 0.079 | 0.045 |
| 2018 | 4.0 | -0.36 | -0.02 | -10.4 | -1.9 | 0.58 | 0.082 | 0.046 |
| 2019 | 4.0 | -0.38 | -0.02 | -10.6 | -2.0 | 0.59 | 0.085 | 0.047 |
| 2020 | 4.0 | -0.39 | -0.02 | -10.9 | -2.1 | 0.61 | 0.087 | 0.048 |
| 2021 | 4.0 | -0.41 | -0.03 | -11.2 | -2.2 | 0.62 | 0.090 | 0.049 |
| 2022 | 4.0 | -0.43 | -0.03 | -11.5 | -2.4 | 0.63 | 0.092 | 0.050 |
| 2023 | 4.0 | -0.45 | -0.04 | -11.8 | -2.5 | 0.65 | 0.094 | 0.051 |
| 2024 | 4.0 | -0.47 | -0.04 | -12.1 | -2.6 | 0.66 | 0.096 | 0.052 |
| 2025 | 4.0 | -0.49 | -0.05 | -12.4 | -2.7 | 0.67 | 0.098 | 0.053 |
| 2026 | 4.0 | -0.51 | -0.05 | -12.7 | -2.9 | 0.69 | 0.100 | 0.054 |
| 2027 | 4.0 | -0.54 | -0.06 | -13.0 | -3.0 | 0.70 | 0.102 | 0.055 |
| 2028 | 4.0 | -0.56 | -0.06 | -13.3 | -3.1 | 0.72 | 0.103 | 0.056 |
| 2029 | 4.0 | -0.58 | -0.07 | -13.7 | -3.3 | 0.73 | 0.105 | 0.058 |
| 2030 | 4.0 | -0.60 | -0.08 | -14.0 | -3.4 | 0.75 | 0.106 | 0.059 |
| 2031 | 4.0 | -0.63 | -0.08 | -14.3 | -3.5 | 0.76 | 0.108 | 0.065 |
| 2035 | - | 0.08 | 0.08 | 0.003 | 0.003 | - | 0.075 | 0.003 |
| 2045 | - | 0.02 | 0.02 | 0.001 | 0.001 | - | 0.025 | 0.001 |
| 2055 | - | 0.01 | 0.01 | 0.0004 | 0.0004 | - | 0.008 | 0.0004 |
| 2065 | - | 0.003 | 0.003 | 0.0001 | 0.0001 | - | 0.003 | 0.0001 |
| 2075 | - | 0.001 | 0.001 | 0.00005 | 0.00005 | - | 0.001 | 0.00005 |
| 2085 | - | 0.0004 | 0.0004 | 0.00002 | 0.00002 | - | 0.0004 | 0.00002 |
| 2095 | - | 0.0002 | 0.0002 | 0.00001 | 0.00001 | - | 0.0002 | 0.00001 |
| 2105 | - | 0.0001 | 0.0001 | 0.000003 | 0.000003 | - | 0.0001 | 0.000003 |

## *D1.7 WOOD*

### *Table D1.22 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 7.5 | -0.28 | -0.03 | -4.7 | -0.6 | 6.2 | 0.03 | 0.5 |
| 2006 | 7.5 | -0.19 | 0.06 | -5.4 | -1.3 | 6.2 | 0.12 | -0.2 |
| 2007 | 7.5 | -0.11 | 0.14 | -6.0 | -1.9 | 6.2 | 0.20 | -0.8 |
| 2008 | 7.5 | -0.04 | 0.22 | -6.6 | -2.5 | 6.2 | 0.27 | -1.4 |
| 2009 | 7.5 | 0.03 | 0.29 | -7.1 | -3.0 | 6.2 | 0.34 | -1.9 |
| 2010 | 7.5 | 0.09 | 0.35 | -7.6 | -3.5 | 6.2 | 0.41 | -2.4 |
| 2011 | 7.5 | 0.15 | 0.41 | -8.1 | -4.0 | 6.2 | 0.47 | -2.9 |
| 2012 | 7.5 | 0.21 | 0.46 | -8.5 | -4.4 | 6.2 | 0.52 | -3.3 |
| 2013 | 7.5 | 0.26 | 0.52 | -8.9 | -4.8 | 6.2 | 0.58 | -3.7 |
| 2014 | 7.5 | 0.31 | 0.57 | -9.3 | -5.2 | 6.2 | 0.62 | -4.1 |
| 2015 | 7.5 | 0.36 | 0.61 | -9.6 | -5.6 | 6.2 | 0.67 | -4.5 |
| 2016 | 7.5 | 0.40 | 0.65 | -10.0 | -5.9 | 6.2 | 0.71 | -4.8 |
| 2017 | 7.5 | 0.44 | 0.69 | -10.3 | -6.2 | 6.2 | 0.75 | -5.1 |
| 2018 | 7.5 | 0.47 | 0.73 | -10.6 | -6.5 | 6.2 | 0.79 | -5.4 |
| 2019 | 7.5 | 0.51 | 0.76 | -10.8 | -6.8 | 6.2 | 0.82 | -5.7 |
| 2020 | 7.5 | 0.54 | 0.80 | -11.1 | -7.0 | 6.2 | 0.85 | -5.9 |
| 2021 | 7.5 | 0.57 | 0.83 | -11.3 | -7.2 | 6.2 | 0.88 | -6.1 |
| 2022 | 7.5 | 0.60 | 0.85 | -11.5 | -7.5 | 6.2 | 0.91 | -6.4 |
| 2023 | 7.5 | 0.62 | 0.88 | -11.7 | -7.7 | 6.2 | 0.94 | -6.6 |
| 2024 | 7.5 | 0.65 | 0.90 | -11.9 | -7.9 | 6.2 | 0.96 | -6.8 |
| 2025 | 7.5 | 0.67 | 0.93 | -12.1 | -8.0 | 6.2 | 0.98 | -6.9 |
| 2026 | 7.5 | 0.69 | 0.95 | -12.3 | -8.2 | 6.2 | 1.01 | -7.1 |
| 2027 | 7.5 | 0.71 | 0.97 | -12.4 | -8.4 | 6.2 | 1.03 | -7.3 |
| 2028 | 7.5 | 0.73 | 0.99 | -12.6 | -8.5 | 6.2 | 1.04 | -7.4 |
| 2029 | 7.5 | 0.75 | 1.00 | -12.7 | -8.6 | 6.2 | 1.06 | -7.5 |
| 2030 | 7.5 | 0.76 | 1.02 | -12.8 | -8.8 | 6.2 | 1.08 | -7.7 |
| 2031 | 7.5 | 0.78 | 1.03 | -13.0 | -8.9 | 6.2 | 1.09 | -7.8 |
| 2035 | - | 0.87 | 0.87 | -6.8 | -6.8 | - | 0.87 | -6.8 |
| 2045 | - | 0.44 | 0.44 | -3.4 | -3.4 | - | 0.44 | -3.4 |
| 2055 | - | 0.23 | 0.23 | -1.8 | -1.8 | - | 0.23 | -1.8 |
| 2065 | - | 0.12 | 0.12 | -0.9 | -0.9 | - | 0.12 | -0.9 |
| 2075 | - | 0.06 | 0.06 | -0.5 | -0.5 | - | 0.06 | -0.5 |
| 2085 | - | 0.04 | 0.04 | -0.3 | -0.3 | - | 0.04 | -0.3 |
| 2095 | - | 0.02 | 0.02 | -0.2 | -0.2 | - | 0.02 | -0.2 |
| 2105 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.01 | -0.1 |

*Table D1.23 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 7.5 | -0.28 | -0.03 | -4.7 | -0.6 | 6.2 | 0.03 | 0.5 |
| 2006 | 7.5 | -0.19 | 0.07 | -5.3 | -1.2 | 6.1 | 0.12 | -0.2 |
| 2007 | 7.5 | -0.11 | 0.15 | -5.9 | -1.7 | 6.1 | 0.20 | -0.8 |
| 2008 | 7.5 | -0.04 | 0.23 | -6.4 | -2.2 | 6.0 | 0.27 | -1.4 |
| 2009 | 7.5 | 0.03 | 0.30 | -6.8 | -2.7 | 5.9 | 0.34 | -1.9 |
| 2010 | 7.5 | 0.10 | 0.36 | -7.2 | -3.1 | 5.8 | 0.40 | -2.4 |
| 2011 | 7.5 | 0.15 | 0.42 | -7.6 | -3.5 | 5.8 | 0.45 | -2.8 |
| 2012 | 7.5 | 0.21 | 0.48 | -7.9 | -3.8 | 5.7 | 0.50 | -3.2 |
| 2013 | 7.5 | 0.26 | 0.53 | -8.2 | -4.1 | 5.6 | 0.55 | -3.6 |
| 2014 | 7.5 | 0.30 | 0.57 | -8.5 | -4.4 | 5.6 | 0.59 | -3.9 |
| 2015 | 7.5 | 0.34 | 0.62 | -8.8 | -4.6 | 5.5 | 0.63 | -4.2 |
| 2016 | 7.5 | 0.38 | 0.66 | -9.0 | -4.8 | 5.4 | 0.66 | -4.5 |
| 2017 | 7.5 | 0.41 | 0.69 | -9.2 | -5.0 | 5.4 | 0.69 | -4.8 |
| 2018 | 7.5 | 0.44 | 0.72 | -9.3 | -5.1 | 5.3 | 0.72 | -5.0 |
| 2019 | 7.5 | 0.47 | 0.75 | -9.5 | -5.3 | 5.2 | 0.75 | -5.2 |
| 2020 | 7.5 | 0.50 | 0.78 | -9.6 | -5.4 | 5.2 | 0.77 | -5.4 |
| 2021 | 7.5 | 0.52 | 0.81 | -9.7 | -5.5 | 5.1 | 0.79 | -5.6 |
| 2022 | 7.5 | 0.54 | 0.83 | -9.7 | -5.6 | 5.0 | 0.81 | -5.7 |
| 2023 | 7.5 | 0.56 | 0.85 | -9.8 | -5.6 | 5.0 | 0.83 | -5.9 |
| 2024 | 7.5 | 0.58 | 0.87 | -9.9 | -5.7 | 4.9 | 0.84 | -6.0 |
| 2025 | 7.5 | 0.60 | 0.89 | -9.9 | -5.7 | 4.8 | 0.85 | -6.1 |
| 2026 | 7.5 | 0.61 | 0.90 | -9.9 | -5.7 | 4.8 | 0.86 | -6.2 |
| 2027 | 7.5 | 0.62 | 0.92 | -9.9 | -5.7 | 4.7 | 0.87 | -6.2 |
| 2028 | 7.5 | 0.63 | 0.93 | -9.9 | -5.7 | 4.7 | 0.88 | -6.3 |
| 2029 | 7.5 | 0.64 | 0.94 | -9.9 | -5.7 | 4.6 | 0.89 | -6.4 |
| 2030 | 7.5 | 0.65 | 0.95 | -9.9 | -5.7 | 4.5 | 0.89 | -6.4 |
| 2031 | 7.5 | 0.66 | 0.96 | -9.8 | -5.6 | 4.5 | 0.90 | -6.5 |
| 2035 | - | 0.71 | 0.71 | -5.6 | -5.6 | - | 0.71 | -5.6 |
| 2045 | - | 0.36 | 0.36 | -2.8 | -2.8 | - | 0.36 | -2.8 |
| 2055 | - | 0.18 | 0.18 | -1.4 | -1.4 | - | 0.18 | -1.4 |
| 2065 | - | 0.10 | 0.10 | -0.8 | -0.8 | - | 0.10 | -0.8 |
| 2075 | - | 0.05 | 0.05 | -0.4 | -0.4 | - | 0.05 | -0.4 |
| 2085 | - | 0.03 | 0.03 | -0.2 | -0.2 | - | 0.03 | -0.2 |
| 2095 | - | 0.02 | 0.02 | -0.1 | -0.1 | - | 0.02 | -0.1 |
| 2105 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.01 | -0.1 |

*Table D1.24 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 7.5 | -0.28 | -0.03 | -4.7 | -0.6 | 6.2 | 0.03 | 0.5 |
| 2006 | 7.5 | -0.40 | -0.01 | -8.9 | -2.5 | 6.0 | 0.12 | -0.2 |
| 2007 | 7.5 | -0.53 | 0.00 | -13.1 | -4.4 | 5.8 | 0.20 | -0.8 |
| 2008 | 7.5 | -0.68 | -0.01 | -17.4 | -6.2 | 5.6 | 0.26 | -1.4 |
| 2009 | 7.5 | -0.85 | -0.03 | -21.8 | -8.0 | 5.4 | 0.32 | -1.9 |
| 2010 | 7.5 | -1.03 | -0.06 | -26.3 | -9.9 | 5.2 | 0.37 | -2.3 |
| 2011 | 7.5 | -1.22 | -0.10 | -30.8 | -11.7 | 5.0 | 0.42 | -2.7 |
| 2012 | 7.5 | -1.43 | -0.14 | -35.5 | -13.5 | 4.7 | 0.46 | -3.0 |
| 2013 | 7.5 | -1.65 | -0.20 | -40.2 | -15.3 | 4.5 | 0.50 | -3.3 |
| 2014 | 7.5 | -1.89 | -0.26 | -45.0 | -17.1 | 4.3 | 0.52 | -3.6 |
| 2015 | 7.5 | -2.14 | -0.33 | -49.9 | -19.0 | 4.1 | 0.55 | -3.8 |
| 2016 | 7.5 | -2.40 | -0.41 | -54.9 | -20.8 | 3.9 | 0.57 | -4.0 |
| 2017 | 7.5 | -2.67 | -0.49 | -60.0 | -22.7 | 3.7 | 0.58 | -4.1 |
| 2018 | 7.5 | -2.95 | -0.58 | -65.2 | -24.5 | 3.5 | 0.59 | -4.2 |
| 2019 | 7.5 | -3.25 | -0.68 | -70.5 | -26.4 | 3.3 | 0.60 | -4.3 |
| 2020 | 7.5 | -3.55 | -0.78 | -75.9 | -28.3 | 3.1 | 0.61 | -4.4 |
| 2021 | 7.5 | -3.87 | -0.89 | -81.4 | -30.3 | 2.9 | 0.61 | -4.4 |
| 2022 | 7.5 | -4.20 | -1.01 | -87.0 | -32.2 | 2.7 | 0.61 | -4.4 |
| 2023 | 7.5 | -4.54 | -1.13 | -92.7 | -34.2 | 2.5 | 0.60 | -4.4 |
| 2024 | 7.5 | -4.89 | -1.25 | -98.6 | -36.2 | 2.3 | 0.59 | -4.4 |
| 2025 | 7.5 | -5.24 | -1.38 | -104.5 | -38.2 | 2.1 | 0.58 | -4.3 |
| 2026 | 7.5 | -5.61 | -1.52 | -110.6 | -40.3 | 1.9 | 0.57 | -4.2 |
| 2027 | 7.5 | -5.99 | -1.66 | -116.8 | -42.4 | 1.6 | 0.56 | -4.2 |
| 2028 | 7.5 | -6.38 | -1.81 | -123.1 | -44.5 | 1.4 | 0.54 | -4.1 |
| 2029 | 7.5 | -6.78 | -1.96 | -129.5 | -46.6 | 1.2 | 0.52 | -3.9 |
| 2030 | 7.5 | -7.18 | -2.11 | -136.0 | -48.8 | 1.0 | 0.50 | -3.8 |
| 2031 | 7.5 | -7.60 | -2.27 | -142.7 | -51.0 | 0.8 | 0.48 | -3.7 |
| 2035 | - | 0.37 | 0.37 | -2.9 | -2.9 | - | 0.37 | -2.9 |
| 2045 | - | 0.19 | 0.19 | -1.5 | -1.5 | - | 0.19 | -1.5 |
| 2055 | - | 0.10 | 0.10 | -0.8 | -0.8 | - | 0.10 | -0.8 |
| 2065 | - | 0.05 | 0.05 | -0.4 | -0.4 | - | 0.05 | -0.4 |
| 2075 | - | 0.03 | 0.03 | -0.2 | -0.2 | - | 0.03 | -0.2 |
| 2085 | - | 0.02 | 0.02 | -0.12 | -0.12 | - | 0.02 | -0.1 |
| 2095 | - | 0.01 | 0.01 | -0.07 | -0.07 | - | 0.009 | -0.07 |
| 2105 | - | 0.01 | 0.01 | -0.04 | -0.04 | - | 0.005 | -0.04 |

*Table D1.25 Combined Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 7.5 | -0.28 | -0.03 | -4.7 | -0.6 | 6.2 | 0.03 | 0.5 |
| 2006 | 7.5 | -0.29 | 0.03 | -7.0 | -1.8 | 6.0 | 0.12 | -0.2 |
| 2007 | 7.5 | -0.31 | 0.08 | -9.3 | -2.9 | 5.8 | 0.20 | -0.8 |
| 2008 | 7.5 | -0.35 | 0.12 | -11.6 | -4.0 | 5.6 | 0.26 | -1.4 |
| 2009 | 7.5 | -0.39 | 0.15 | -13.8 | -5.0 | 5.5 | 0.32 | -1.9 |
| 2010 | 7.5 | -0.44 | 0.17 | -16.1 | -6.1 | 5.3 | 0.38 | -2.3 |
| 2011 | 7.5 | -0.51 | 0.18 | -18.4 | -7.0 | 5.1 | 0.43 | -2.7 |
| 2012 | 7.5 | -0.58 | 0.19 | -20.7 | -8.0 | 4.9 | 0.47 | -3.1 |
| 2013 | 7.5 | -0.66 | 0.19 | -23.0 | -8.9 | 4.7 | 0.50 | -3.4 |
| 2014 | 7.5 | -0.75 | 0.18 | -25.4 | -9.9 | 4.5 | 0.54 | -3.6 |
| 2015 | 7.5 | -0.85 | 0.17 | -27.7 | -10.8 | 4.4 | 0.56 | -3.9 |
| 2016 | 7.5 | -0.95 | 0.15 | -30.1 | -11.6 | 4.2 | 0.58 | -4.1 |
| 2017 | 7.5 | -1.06 | 0.13 | -32.5 | -12.5 | 4.0 | 0.60 | -4.2 |
| 2018 | 7.5 | -1.18 | 0.10 | -34.9 | -13.4 | 3.8 | 0.62 | -4.4 |
| 2019 | 7.5 | -1.31 | 0.07 | -37.3 | -14.2 | 3.6 | 0.63 | -4.5 |
| 2020 | 7.5 | -1.44 | 0.03 | -39.8 | -15.1 | 3.5 | 0.64 | -4.5 |
| 2021 | 7.5 | -1.58 | -0.01 | -42.3 | -15.9 | 3.3 | 0.64 | -4.6 |
| 2022 | 7.5 | -1.73 | -0.05 | -44.8 | -16.8 | 3.1 | 0.64 | -4.6 |
| 2023 | 7.5 | -1.88 | -0.10 | -47.4 | -17.6 | 2.9 | 0.64 | -4.7 |
| 2024 | 7.5 | -2.03 | -0.15 | -50.0 | -18.4 | 2.7 | 0.64 | -4.7 |
| 2025 | 7.5 | -2.19 | -0.21 | -52.6 | -19.3 | 2.6 | 0.63 | -4.6 |
| 2026 | 7.5 | -2.36 | -0.27 | -55.3 | -20.1 | 2.4 | 0.63 | -4.6 |
| 2027 | 7.5 | -2.53 | -0.33 | -58.0 | -21.0 | 2.2 | 0.62 | -4.5 |
| 2028 | 7.5 | -2.71 | -0.39 | -60.8 | -21.8 | 2.0 | 0.60 | -4.5 |
| 2029 | 7.5 | -2.89 | -0.46 | -63.6 | -22.7 | 1.8 | 0.59 | -4.4 |
| 2030 | 7.5 | -3.08 | -0.53 | -66.4 | -23.5 | 1.7 | 0.58 | -4.3 |
| 2031 | 7.5 | -3.27 | -0.60 | -69.3 | -24.4 | 1.5 | 0.56 | -4.2 |
| 2035 | - | 0.43 | 0.43 | -3.4 | -3.4 | - | 0.43 | -3.4 |
| 2045 | - | 0.22 | 0.22 | -1.7 | -1.7 | - | 0.22 | -1.7 |
| 2055 | - | 0.11 | 0.11 | -0.9 | -0.9 | - | 0.11 | -0.9 |
| 2065 | - | 0.06 | 0.06 | -0.5 | -0.5 | - | 0.06 | -0.5 |
| 2075 | - | 0.03 | 0.03 | -0.3 | -0.3 | - | 0.03 | -0.3 |
| 2085 | - | 0.02 | 0.02 | -0.1 | -0.1 | - | 0.02 | -0.1 |
| 2095 | - | 0.01 | 0.01 | -0.08 | -0.08 | - | 0.01 | -0.1 |
| 2105 | - | 0.01 | 0.01 | -0.05 | -0.05 | - | 0.006 | -0.046 |

## *Table D1.26 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 1.4 | -0.27 | -0.07 | -8.0 | -2.4 | 1.09 | 0.006 | 0.086 |
| 2006 | 1.4 | -0.26 | -0.06 | -8.1 | -2.5 | 1.09 | 0.014 | 0.02 |
| 2007 | 1.4 | -0.25 | -0.05 | -8.1 | -2.5 | 1.09 | 0.022 | -0.04 |
| 2008 | 1.4 | -0.24 | -0.05 | -8.2 | -2.6 | 1.09 | 0.029 | -0.09 |
| 2009 | 1.4 | -0.24 | -0.04 | -8.2 | -2.7 | 1.09 | 0.036 | -0.15 |
| 2010 | 1.4 | -0.23 | -0.03 | -8.3 | -2.7 | 1.09 | 0.042 | -0.20 |
| 2011 | 1.4 | -0.22 | -0.03 | -8.3 | -2.8 | 1.09 | 0.049 | -0.25 |
| 2012 | 1.4 | -0.22 | -0.02 | -8.4 | -2.8 | 1.09 | 0.055 | -0.30 |
| 2013 | 1.4 | -0.21 | -0.01 | -8.4 | -2.8 | 1.09 | 0.060 | -0.34 |
| 2014 | 1.4 | -0.21 | -0.01 | -8.5 | -2.9 | 1.09 | 0.066 | -0.38 |
| 2015 | 1.4 | -0.20 | 0.00 | -8.5 | -2.9 | 1.09 | 0.071 | -0.42 |
| 2016 | 1.4 | -0.20 | 0.00 | -8.6 | -3.0 | 1.09 | 0.076 | -0.46 |
| 2017 | 1.4 | -0.19 | 0.01 | -8.6 | -3.0 | 1.09 | 0.081 | -0.50 |
| 2018 | 1.4 | -0.19 | 0.01 | -8.6 | -3.0 | 1.09 | 0.086 | -0.54 |
| 2019 | 1.4 | -0.18 | 0.02 | -8.7 | -3.1 | 1.09 | 0.090 | -0.57 |
| 2020 | 1.4 | -0.18 | 0.02 | -8.7 | -3.1 | 1.09 | 0.094 | -0.60 |
| 2021 | 1.4 | -0.17 | 0.02 | -8.7 | -3.1 | 1.09 | 0.098 | -0.63 |
| 2022 | 1.4 | -0.17 | 0.03 | -8.8 | -3.2 | 1.09 | 0.102 | -0.66 |
| 2023 | 1.4 | -0.17 | 0.03 | -8.8 | -3.2 | 1.09 | 0.106 | -0.69 |
| 2024 | 1.4 | -0.16 | 0.03 | -8.8 | -3.2 | 1.09 | 0.109 | -0.72 |
| 2025 | 1.4 | -0.16 | 0.04 | -8.8 | -3.3 | 1.09 | 0.112 | -0.75 |
| 2026 | 1.4 | -0.16 | 0.04 | -8.9 | -3.3 | 1.09 | 0.116 | -0.77 |
| 2027 | 1.4 | -0.15 | 0.04 | -8.9 | -3.3 | 1.09 | 0.119 | -0.79 |
| 2028 | 1.4 | -0.15 | 0.05 | -8.9 | -3.3 | 1.09 | 0.121 | -0.82 |
| 2029 | 1.4 | -0.15 | 0.05 | -8.9 | -3.3 | 1.09 | 0.124 | -0.84 |
| 2030 | 1.4 | -0.15 | 0.05 | -9.0 | -3.4 | 1.09 | 0.127 | -0.86 |
| 2031 | 1.4 | -0.14 | 0.06 | -9.0 | -3.4 | 1.09 | 0.129 | -0.88 |
| 2035 | - | 0.11 | 0.11 | -0.9 | -0.9 | - | 0.109 | -0.86 |
| 2045 | - | 0.07 | 0.07 | -0.5 | -0.5 | - | 0.069 | -0.54 |
| 2055 | - | 0.04 | 0.04 | -0.3 | -0.3 | - | 0.044 | -0.34 |
| 2065 | - | 0.03 | 0.03 | -0.2 | -0.2 | - | 0.028 | -0.21 |
| 2075 | - | 0.02 | 0.02 | -0.1 | -0.1 | - | 0.017 | -0.13 |
| 2085 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.011 | -0.086 |
| 2095 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.0069 | -0.054 |
| 2105 | - | 0.004 | 0.004 | -0.03 | -0.03 | - | 0.0044 | -0.034 |

*Table D1.27 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 1.4 | -0.27 | -0.07 | -8.0 | -2.4 | 1.09 | 0.006 | 0.086 |
| 2006 | 1.4 | -0.29 | -0.08 | -8.7 | -2.7 | 1.08 | 0.014 | 0.023 |
| 2007 | 1.4 | -0.31 | -0.09 | -9.3 | -2.9 | 1.07 | 0.021 | -0.037 |
| 2008 | 1.4 | -0.33 | -0.10 | -9.9 | -3.1 | 1.06 | 0.028 | -0.093 |
| 2009 | 1.4 | -0.35 | -0.11 | -10.6 | -3.3 | 1.05 | 0.035 | -0.147 |
| 2010 | 1.4 | -0.37 | -0.12 | -11.2 | -3.6 | 1.04 | 0.041 | -0.197 |
| 2011 | 1.4 | -0.39 | -0.13 | -11.8 | -3.8 | 1.03 | 0.047 | -0.245 |
| 2012 | 1.4 | -0.42 | -0.14 | -12.4 | -4.0 | 1.02 | 0.053 | -0.290 |
| 2013 | 1.4 | -0.44 | -0.16 | -13.0 | -4.2 | 1.01 | 0.058 | -0.332 |
| 2014 | 1.4 | -0.46 | -0.17 | -13.6 | -4.4 | 1.00 | 0.063 | -0.371 |
| 2015 | 1.4 | -0.49 | -0.18 | -14.2 | -4.6 | 0.99 | 0.068 | -0.409 |
| 2016 | 1.4 | -0.51 | -0.19 | -14.8 | -4.8 | 0.98 | 0.072 | -0.444 |
| 2017 | 1.4 | -0.53 | -0.21 | -15.4 | -5.0 | 0.97 | 0.076 | -0.477 |
| 2018 | 1.4 | -0.55 | -0.22 | -16.0 | -5.2 | 0.96 | 0.080 | -0.508 |
| 2019 | 1.4 | -0.58 | -0.23 | -16.6 | -5.4 | 0.95 | 0.083 | -0.537 |
| 2020 | 1.4 | -0.60 | -0.25 | -17.1 | -5.6 | 0.94 | 0.087 | -0.564 |
| 2021 | 1.4 | -0.63 | -0.26 | -17.7 | -5.8 | 0.93 | 0.090 | -0.590 |
| 2022 | 1.4 | -0.65 | -0.27 | -18.3 | -6.0 | 0.92 | 0.093 | -0.613 |
| 2023 | 1.4 | -0.67 | -0.29 | -18.8 | -6.2 | 0.91 | 0.095 | -0.636 |
| 2024 | 1.4 | -0.70 | -0.30 | -19.4 | -6.3 | 0.90 | 0.098 | -0.656 |
| 2025 | 1.4 | -0.72 | -0.32 | -19.9 | -6.5 | 0.89 | 0.100 | -0.676 |
| 2026 | 1.4 | -0.75 | -0.33 | -20.5 | -6.7 | 0.88 | 0.102 | -0.694 |
| 2027 | 1.4 | -0.77 | -0.35 | -21.0 | -6.9 | 0.87 | 0.104 | -0.710 |
| 2028 | 1.4 | -0.79 | -0.36 | -21.6 | -7.1 | 0.86 | 0.106 | -0.726 |
| 2029 | 1.4 | -0.82 | -0.37 | -22.1 | -7.2 | 0.85 | 0.108 | -0.740 |
| 2030 | 1.4 | -0.84 | -0.39 | -22.6 | -7.4 | 0.84 | 0.109 | -0.753 |
| 2031 | 1.4 | -0.87 | -0.40 | -23.2 | -7.6 | 0.83 | 0.111 | -0.765 |
| 2035 | - | 0.09 | 0.09 | -0.7 | -0.7 | - | 0.093 | -0.732 |
| 2045 | - | 0.06 | 0.06 | -0.5 | -0.5 | - | 0.059 | -0.462 |
| 2055 | - | 0.04 | 0.04 | -0.3 | -0.3 | - | 0.037 | -0.292 |
| 2065 | - | 0.02 | 0.02 | -0.2 | -0.2 | - | 0.024 | -0.184 |
| 2075 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.015 | -0.116 |
| 2085 | - | 0.01 | 0.01 | -0.07 | -0.07 | - | 0.009 | -0.073 |
| 2095 | - | 0.01 | 0.01 | -0.05 | -0.05 | - | 0.006 | -0.046 |
| 2105 | - | 0.004 | 0.004 | -0.03 | -0.03 | - | 0.004 | -0.029 |

*Table D1.28 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 1.4 | -0.27 | -0.07 | -8.0 | -2.4 | 1.09 | 0.006 | 0.086 |
| 2006 | 1.4 | -0.25 | -0.03 | -8.4 | -2.6 | 1.06 | 0.014 | 0.021 |
| 2007 | 1.4 | -0.23 | 0.00 | -8.7 | -2.8 | 1.02 | 0.021 | -0.039 |
| 2008 | 1.4 | -0.22 | 0.03 | -9.1 | -2.9 | 0.99 | 0.027 | -0.094 |
| 2009 | 1.4 | -0.20 | 0.06 | -9.5 | -3.1 | 0.95 | 0.033 | -0.145 |
| 2010 | 1.4 | -0.19 | 0.09 | -9.9 | -3.3 | 0.92 | 0.039 | -0.192 |
| 2011 | 1.4 | -0.18 | 0.12 | -10.4 | -3.5 | 0.88 | 0.044 | -0.235 |
| 2012 | 1.4 | -0.17 | 0.15 | -10.8 | -3.7 | 0.84 | 0.048 | -0.274 |
| 2013 | 1.4 | -0.17 | 0.18 | -11.3 | -3.8 | 0.81 | 0.052 | -0.309 |
| 2014 | 1.4 | -0.16 | 0.20 | -11.7 | -4.0 | 0.77 | 0.056 | -0.340 |
| 2015 | 1.4 | -0.16 | 0.23 | -12.2 | -4.2 | 0.74 | 0.059 | -0.369 |
| 2016 | 1.4 | -0.16 | 0.25 | -12.7 | -4.4 | 0.70 | 0.061 | -0.394 |
| 2017 | 1.4 | -0.16 | 0.28 | -13.3 | -4.6 | 0.67 | 0.063 | -0.415 |
| 2018 | 1.4 | -0.16 | 0.30 | -13.8 | -4.8 | 0.63 | 0.065 | -0.434 |
| 2019 | 1.4 | -0.16 | 0.32 | -14.4 | -5.0 | 0.60 | 0.067 | -0.451 |
| 2020 | 1.4 | -0.17 | 0.34 | -14.9 | -5.3 | 0.56 | 0.068 | -0.464 |
| 2021 | 1.4 | -0.17 | 0.37 | -15.5 | -5.5 | 0.53 | 0.069 | -0.475 |
| 2022 | 1.4 | -0.18 | 0.39 | -16.1 | -5.7 | 0.49 | 0.069 | -0.483 |
| 2023 | 1.4 | -0.19 | 0.41 | -16.8 | -5.9 | 0.45 | 0.070 | -0.490 |
| 2024 | 1.4 | -0.20 | 0.42 | -17.4 | -6.1 | 0.42 | 0.070 | -0.493 |
| 2025 | 1.4 | -0.21 | 0.44 | -18.1 | -6.4 | 0.38 | 0.069 | -0.495 |
| 2026 | 1.4 | -0.22 | 0.46 | -18.8 | -6.6 | 0.35 | 0.069 | -0.495 |
| 2027 | 1.4 | -0.23 | 0.48 | -19.4 | -6.9 | 0.31 | 0.068 | -0.493 |
| 2028 | 1.4 | -0.25 | 0.49 | -20.2 | -7.1 | 0.28 | 0.067 | -0.489 |
| 2029 | 1.4 | -0.27 | 0.51 | -20.9 | -7.4 | 0.24 | 0.065 | -0.483 |
| 2030 | 1.4 | -0.28 | 0.52 | -21.6 | -7.6 | 0.21 | 0.064 | -0.475 |
| 2031 | 1.4 | -0.30 | 0.54 | -22.4 | -7.9 | 0.17 | 0.062 | -0.466 |
| 2035 | - | 0.05 | 0.05 | -0.4 | -0.4 | - | 0.052 | -0.406 |
| 2045 | - | 0.03 | 0.03 | -0.3 | -0.3 | - | 0.033 | -0.256 |
| 2055 | - | 0.02 | 0.02 | -0.2 | -0.2 | - | 0.021 | -0.161 |
| 2065 | - | 0.013 | 0.013 | -0.10 | -0.10 | - | 0.013 | -0.102 |
| 2075 | - | 0.008 | 0.008 | -0.06 | -0.06 | - | 0.008 | -0.064 |
| 2085 | - | 0.005 | 0.005 | -0.04 | -0.04 | - | 0.005 | -0.041 |
| 2095 | - | 0.003 | 0.003 | -0.03 | -0.03 | - | 0.003 | -0.026 |
| 2105 | - | 0.002 | 0.002 | -0.02 | -0.02 | - | 0.002 | -0.016 |

*Table D1.29 Combined Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 1.4 | -0.27 | -0.07 | -8.0 | -2.4 | 1.09 | 0.006 | 0.086 |
| 2006 | 1.4 | -0.29 | -0.07 | -8.9 | -2.8 | 1.06 | 0.014 | 0.021 |
| 2007 | 1.4 | -0.31 | -0.07 | -9.9 | -3.1 | 1.03 | 0.021 | -0.039 |
| 2008 | 1.4 | -0.33 | -0.07 | -10.8 | -3.4 | 1.00 | 0.028 | -0.095 |
| 2009 | 1.4 | -0.36 | -0.07 | -11.7 | -3.7 | 0.97 | 0.034 | -0.146 |
| 2010 | 1.4 | -0.38 | -0.07 | -12.7 | -4.1 | 0.93 | 0.039 | -0.194 |
| 2011 | 1.4 | -0.41 | -0.08 | -13.6 | -4.4 | 0.90 | 0.044 | -0.237 |
| 2012 | 1.4 | -0.44 | -0.08 | -14.5 | -4.7 | 0.87 | 0.049 | -0.277 |
| 2013 | 1.4 | -0.46 | -0.09 | -15.5 | -5.0 | 0.84 | 0.053 | -0.313 |
| 2014 | 1.4 | -0.49 | -0.09 | -16.4 | -5.3 | 0.81 | 0.057 | -0.346 |
| 2015 | 1.4 | -0.52 | -0.10 | -17.4 | -5.7 | 0.78 | 0.060 | -0.376 |
| 2016 | 1.4 | -0.55 | -0.10 | -18.3 | -6.0 | 0.75 | 0.063 | -0.403 |
| 2017 | 1.4 | -0.58 | -0.11 | -19.2 | -6.3 | 0.71 | 0.066 | -0.427 |
| 2018 | 1.4 | -0.61 | -0.11 | -20.2 | -6.6 | 0.68 | 0.068 | -0.448 |
| 2019 | 1.4 | -0.64 | -0.12 | -21.1 | -6.9 | 0.65 | 0.070 | -0.466 |
| 2020 | 1.4 | -0.68 | -0.13 | -22.1 | -7.2 | 0.62 | 0.071 | -0.482 |
| 2021 | 1.4 | -0.71 | -0.14 | -23.0 | -7.5 | 0.59 | 0.073 | -0.496 |
| 2022 | 1.4 | -0.74 | -0.14 | -24.0 | -7.8 | 0.56 | 0.074 | -0.507 |
| 2023 | 1.4 | -0.78 | -0.15 | -24.9 | -8.2 | 0.53 | 0.074 | -0.516 |
| 2024 | 1.4 | -0.81 | -0.16 | -25.9 | -8.5 | 0.50 | 0.075 | -0.523 |
| 2025 | 1.4 | -0.85 | -0.17 | -26.9 | -8.8 | 0.47 | 0.075 | -0.528 |
| 2026 | 1.4 | -0.88 | -0.18 | -27.8 | -9.1 | 0.44 | 0.075 | -0.531 |
| 2027 | 1.4 | -0.92 | -0.19 | -28.8 | -9.4 | 0.41 | 0.074 | -0.533 |
| 2028 | 1.4 | -0.96 | -0.20 | -29.8 | -9.7 | 0.38 | 0.074 | -0.532 |
| 2029 | 1.4 | -0.99 | -0.21 | -30.7 | -10.0 | 0.35 | 0.073 | -0.530 |
| 2030 | 1.4 | -1.03 | -0.22 | -31.7 | -10.3 | 0.32 | 0.072 | -0.527 |
| 2031 | 1.4 | -1.07 | -0.23 | -32.7 | -10.6 | 0.29 | 0.071 | -0.522 |
| 2035 | - | 0.06 | 0.06 | -0.5 | -0.5 | - | 0.060 | -0.466 |
| 2045 | - | 0.04 | 0.04 | -0.3 | -0.3 | - | 0.038 | -0.294 |
| 2055 | - | 0.02 | 0.02 | -0.2 | -0.2 | - | 0.024 | -0.186 |
| 2065 | - | 0.01 | 0.01 | -0.1 | -0.1 | - | 0.015 | -0.117 |
| 2075 | - | 0.009 | 0.009 | -0.07 | -0.07 | - | 0.009 | -0.074 |
| 2085 | - | 0.006 | 0.006 | -0.05 | -0.05 | - | 0.006 | -0.047 |
| 2095 | - | 0.004 | 0.004 | -0.03 | -0.03 | - | 0.004 | -0.029 |
| 2105 | - | 0.002 | 0.002 | -0.02 | -0.02 | - | 0.002 | -0.019 |

## *D1.9 DENSE PLASTIC*

### *Table D1.30 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2006 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2007 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2008 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2009 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2010 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2011 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2012 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2013 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2014 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2015 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2016 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2017 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2018 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2019 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2020 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2021 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2022 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2023 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2024 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2025 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2026 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2027 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2028 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2029 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2030 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2031 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.31 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2006 | 2.8 | -0.06 | 0.53 | -13.6 | 0.1 | 2.4 | 0.013 | 0.19 |
| 2007 | 2.8 | -0.16 | 0.56 | -16.4 | 0.8 | 2.4 | 0.013 | 0.19 |
| 2008 | 2.8 | -0.26 | 0.58 | -19.2 | 1.4 | 2.3 | 0.012 | 0.18 |
| 2009 | 2.8 | -0.36 | 0.61 | -21.9 | 2.1 | 2.3 | 0.012 | 0.18 |
| 2010 | 2.8 | -0.46 | 0.64 | -24.7 | 2.7 | 2.2 | 0.012 | 0.18 |
| 2011 | 2.8 | -0.55 | 0.67 | -27.4 | 3.3 | 2.2 | 0.012 | 0.17 |
| 2012 | 2.8 | -0.65 | 0.70 | -30.1 | 4.0 | 2.2 | 0.012 | 0.17 |
| 2013 | 2.8 | -0.75 | 0.72 | -32.8 | 4.6 | 2.1 | 0.011 | 0.17 |
| 2014 | 2.8 | -0.85 | 0.75 | -35.5 | 5.2 | 2.1 | 0.011 | 0.16 |
| 2015 | 2.8 | -0.94 | 0.78 | -38.2 | 5.9 | 2.0 | 0.011 | 0.16 |
| 2016 | 2.8 | -1.04 | 0.80 | -40.9 | 6.5 | 2.0 | 0.011 | 0.16 |
| 2017 | 2.8 | -1.13 | 0.83 | -43.6 | 7.1 | 2.0 | 0.010 | 0.15 |
| 2018 | 2.8 | -1.23 | 0.86 | -46.2 | 7.7 | 1.9 | 0.010 | 0.15 |
| 2019 | 2.8 | -1.32 | 0.88 | -48.8 | 8.4 | 1.9 | 0.010 | 0.15 |
| 2020 | 2.8 | -1.42 | 0.91 | -51.5 | 9.0 | 1.8 | 0.010 | 0.14 |
| 2021 | 2.8 | -1.51 | 0.94 | -54.1 | 9.6 | 1.8 | 0.010 | 0.14 |
| 2022 | 2.8 | -1.61 | 0.96 | -56.7 | 10.2 | 1.8 | 0.009 | 0.14 |
| 2023 | 2.8 | -1.70 | 0.99 | -59.3 | 10.8 | 1.7 | 0.009 | 0.14 |
| 2024 | 2.8 | -1.79 | 1.01 | -61.8 | 11.4 | 1.7 | 0.009 | 0.13 |
| 2025 | 2.8 | -1.88 | 1.04 | -64.4 | 12.0 | 1.7 | 0.009 | 0.13 |
| 2026 | 2.8 | -1.98 | 1.06 | -67.0 | 12.7 | 1.6 | 0.009 | 0.13 |
| 2027 | 2.8 | -2.07 | 1.09 | -69.5 | 13.3 | 1.6 | 0.008 | 0.12 |
| 2028 | 2.8 | -2.16 | 1.11 | -72.0 | 13.9 | 1.5 | 0.008 | 0.12 |
| 2029 | 2.8 | -2.25 | 1.14 | -74.5 | 14.5 | 1.5 | 0.008 | 0.12 |
| 2030 | 2.8 | -2.34 | 1.16 | -77.0 | 15.1 | 1.5 | 0.008 | 0.12 |
| 2031 | 2.8 | -2.43 | 1.19 | -79.5 | 15.6 | 1.4 | 0.008 | 0.11 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.32 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2006 | 2.8 | 0.11 | 0.63 | -12.5 | -1.2 | 2.4 | 0.013 | 0.19 |
| 2007 | 2.8 | 0.17 | 0.76 | -14.2 | -2.0 | 2.3 | 0.012 | 0.18 |
| 2008 | 2.8 | 0.23 | 0.89 | -16.1 | -2.7 | 2.2 | 0.012 | 0.17 |
| 2009 | 2.8 | 0.29 | 1.01 | -18.0 | -3.5 | 2.1 | 0.011 | 0.17 |
| 2010 | 2.8 | 0.34 | 1.14 | -19.9 | -4.3 | 2.1 | 0.011 | 0.16 |
| 2011 | 2.8 | 0.39 | 1.26 | -21.9 | -5.1 | 2.0 | 0.011 | 0.15 |
| 2012 | 2.8 | 0.43 | 1.39 | -24.0 | -5.9 | 1.9 | 0.010 | 0.15 |
| 2013 | 2.8 | 0.47 | 1.51 | -26.2 | -6.8 | 1.8 | 0.010 | 0.14 |
| 2014 | 2.8 | 0.51 | 1.63 | -28.4 | -7.7 | 1.7 | 0.009 | 0.14 |
| 2015 | 2.8 | 0.54 | 1.74 | -30.7 | -8.6 | 1.7 | 0.009 | 0.13 |
| 2016 | 2.8 | 0.57 | 1.86 | -33.1 | -9.5 | 1.6 | 0.008 | 0.12 |
| 2017 | 2.8 | 0.59 | 1.98 | -35.5 | -10.5 | 1.5 | 0.008 | 0.12 |
| 2018 | 2.8 | 0.61 | 2.09 | -38.0 | -11.4 | 1.4 | 0.008 | 0.11 |
| 2019 | 2.8 | 0.63 | 2.20 | -40.6 | -12.4 | 1.3 | 0.007 | 0.11 |
| 2020 | 2.8 | 0.64 | 2.31 | -43.3 | -13.5 | 1.3 | 0.007 | 0.10 |
| 2021 | 2.8 | 0.65 | 2.42 | -46.0 | -14.5 | 1.2 | 0.006 | 0.09 |
| 2022 | 2.8 | 0.65 | 2.53 | -48.8 | -15.6 | 1.1 | 0.006 | 0.09 |
| 2023 | 2.8 | 0.65 | 2.64 | -51.6 | -16.7 | 1.0 | 0.005 | 0.08 |
| 2024 | 2.8 | 0.65 | 2.74 | -54.5 | -17.8 | 0.9 | 0.005 | 0.07 |
| 2025 | 2.8 | 0.64 | 2.85 | -57.5 | -19.0 | 0.9 | 0.005 | 0.07 |
| 2026 | 2.8 | 0.63 | 2.95 | -60.6 | -20.2 | 0.8 | 0.004 | 0.06 |
| 2027 | 2.8 | 0.61 | 3.05 | -63.7 | -21.4 | 0.7 | 0.004 | 0.06 |
| 2028 | 2.8 | 0.59 | 3.15 | -66.9 | -22.6 | 0.6 | 0.003 | 0.05 |
| 2029 | 2.8 | 0.57 | 3.25 | -70.1 | -23.8 | 0.6 | 0.003 | 0.04 |
| 2030 | 2.8 | 0.54 | 3.35 | -73.5 | -25.1 | 0.5 | 0.003 | 0.04 |
| 2031 | 2.8 | 0.51 | 3.44 | -76.8 | -26.4 | 0.4 | 0.002 | 0.03 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.33 Combined Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 2.8 | 0.04 | 0.50 | -10.8 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2006 | 2.8 | -0.04 | 0.58 | -14.4 | -0.1 | 2.4 | 0.013 | 0.19 |
| 2007 | 2.8 | -0.12 | 0.65 | -17.9 | 0.2 | 2.3 | 0.012 | 0.18 |
| 2008 | 2.8 | -0.20 | 0.73 | -21.5 | 0.6 | 2.2 | 0.012 | 0.18 |
| 2009 | 2.8 | -0.29 | 0.80 | -25.1 | 1.0 | 2.2 | 0.012 | 0.17 |
| 2010 | 2.8 | -0.37 | 0.88 | -28.7 | 1.3 | 2.1 | 0.011 | 0.16 |
| 2011 | 2.8 | -0.45 | 0.95 | -32.3 | 1.7 | 2.0 | 0.011 | 0.16 |
| 2012 | 2.8 | -0.54 | 1.03 | -35.9 | 2.0 | 1.9 | 0.010 | 0.15 |
| 2013 | 2.8 | -0.62 | 1.10 | -39.5 | 2.3 | 1.9 | 0.010 | 0.15 |
| 2014 | 2.8 | -0.71 | 1.17 | -43.1 | 2.6 | 1.8 | 0.010 | 0.14 |
| 2015 | 2.8 | -0.79 | 1.25 | -46.7 | 3.0 | 1.7 | 0.009 | 0.14 |
| 2016 | 2.8 | -0.88 | 1.32 | -50.3 | 3.3 | 1.7 | 0.009 | 0.13 |
| 2017 | 2.8 | -0.97 | 1.39 | -53.9 | 3.6 | 1.6 | 0.009 | 0.13 |
| 2018 | 2.8 | -1.06 | 1.46 | -57.5 | 3.8 | 1.5 | 0.008 | 0.12 |
| 2019 | 2.8 | -1.15 | 1.53 | -61.2 | 4.1 | 1.5 | 0.008 | 0.11 |
| 2020 | 2.8 | -1.24 | 1.60 | -64.8 | 4.4 | 1.4 | 0.007 | 0.11 |
| 2021 | 2.8 | -1.33 | 1.67 | -68.5 | 4.6 | 1.3 | 0.007 | 0.10 |
| 2022 | 2.8 | -1.42 | 1.74 | -72.1 | 4.9 | 1.2 | 0.007 | 0.10 |
| 2023 | 2.8 | -1.51 | 1.80 | -75.8 | 5.1 | 1.2 | 0.006 | 0.09 |
| 2024 | 2.8 | -1.60 | 1.87 | -79.4 | 5.4 | 1.1 | 0.006 | 0.09 |
| 2025 | 2.8 | -1.69 | 1.94 | -83.1 | 5.6 | 1.0 | 0.006 | 0.08 |
| 2026 | 2.8 | -1.79 | 2.00 | -86.8 | 5.8 | 1.0 | 0.005 | 0.08 |
| 2027 | 2.8 | -1.88 | 2.07 | -90.4 | 6.0 | 0.9 | 0.005 | 0.07 |
| 2028 | 2.8 | -1.98 | 2.14 | -94.1 | 6.2 | 0.8 | 0.004 | 0.07 |
| 2029 | 2.8 | -2.07 | 2.20 | -97.8 | 6.4 | 0.8 | 0.004 | 0.06 |
| 2030 | 2.8 | -2.17 | 2.26 | -101.5 | 6.6 | 0.7 | 0.004 | 0.06 |
| 2031 | 2.8 | -2.27 | 2.33 | -105.2 | 6.8 | 0.6 | 0.00 | 0.0 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

## *D1.10 PLASTIC FILM*

### *Table D1.34 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2006 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2007 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2008 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2009 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2010 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2011 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2012 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2013 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2014 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2015 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2016 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2017 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2018 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2019 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2020 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2021 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2022 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2023 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2024 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2025 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2026 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2027 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2028 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2029 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2030 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2031 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.35 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2006 | 3.1 | -0.28 | 0.55 | -21.0 | 2.4 | 2.6 | 0.014 | 0.20 |
| 2007 | 3.1 | -0.36 | 0.58 | -23.8 | 3.0 | 2.6 | 0.014 | 0.20 |
| 2008 | 3.1 | -0.44 | 0.61 | -26.7 | 3.6 | 2.5 | 0.013 | 0.20 |
| 2009 | 3.1 | -0.52 | 0.65 | -29.5 | 4.3 | 2.5 | 0.013 | 0.19 |
| 2010 | 3.1 | -0.59 | 0.68 | -32.3 | 4.9 | 2.4 | 0.013 | 0.19 |
| 2011 | 3.1 | -0.67 | 0.71 | -35.1 | 5.5 | 2.4 | 0.013 | 0.19 |
| 2012 | 3.1 | -0.75 | 0.74 | -37.9 | 6.1 | 2.3 | 0.013 | 0.18 |
| 2013 | 3.1 | -0.83 | 0.77 | -40.7 | 6.7 | 2.3 | 0.012 | 0.18 |
| 2014 | 3.1 | -0.90 | 0.80 | -43.5 | 7.3 | 2.3 | 0.012 | 0.18 |
| 2015 | 3.1 | -0.98 | 0.84 | -46.2 | 7.9 | 2.2 | 0.012 | 0.17 |
| 2016 | 3.1 | -1.06 | 0.87 | -49.0 | 8.5 | 2.2 | 0.012 | 0.17 |
| 2017 | 3.1 | -1.13 | 0.90 | -51.7 | 9.1 | 2.1 | 0.011 | 0.17 |
| 2018 | 3.1 | -1.21 | 0.93 | -54.4 | 9.7 | 2.1 | 0.011 | 0.16 |
| 2019 | 3.1 | -1.28 | 0.96 | -57.1 | 10.3 | 2.1 | 0.011 | 0.16 |
| 2020 | 3.1 | -1.36 | 0.99 | -59.8 | 10.9 | 2.0 | 0.011 | 0.16 |
| 2021 | 3.1 | -1.43 | 1.02 | -62.5 | 11.5 | 2.0 | 0.011 | 0.16 |
| 2022 | 3.1 | -1.51 | 1.05 | -65.2 | 12.1 | 1.9 | 0.010 | 0.15 |
| 2023 | 3.1 | -1.58 | 1.08 | -67.8 | 12.7 | 1.9 | 0.010 | 0.15 |
| 2024 | 3.1 | -1.66 | 1.11 | -70.5 | 13.3 | 1.9 | 0.010 | 0.15 |
| 2025 | 3.1 | -1.73 | 1.14 | -73.1 | 13.9 | 1.8 | 0.010 | 0.14 |
| 2026 | 3.1 | -1.80 | 1.17 | -75.8 | 14.5 | 1.8 | 0.010 | 0.14 |
| 2027 | 3.1 | -1.88 | 1.20 | -78.4 | 15.0 | 1.7 | 0.009 | 0.14 |
| 2028 | 3.1 | -1.95 | 1.23 | -81.0 | 15.6 | 1.7 | 0.009 | 0.13 |
| 2029 | 3.1 | -2.02 | 1.26 | -83.5 | 16.2 | 1.7 | 0.009 | 0.13 |
| 2030 | 3.1 | -2.10 | 1.28 | -86.1 | 16.8 | 1.6 | 0.009 | 0.13 |
| 2031 | 3.1 | -2.17 | 1.31 | -88.7 | 17.3 | 1.6 | 0.008 | 0.12 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.36 High Energy Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2006 | 3.1 | -0.12 | 0.64 | -19.4 | 1.0 | 2.6 | 0.014 | 0.20 |
| 2007 | 3.1 | -0.05 | 0.77 | -20.7 | 0.3 | 2.5 | 0.013 | 0.19 |
| 2008 | 3.1 | 0.02 | 0.89 | -22.1 | -0.5 | 2.4 | 0.013 | 0.19 |
| 2009 | 3.1 | 0.09 | 1.01 | -23.6 | -1.3 | 2.3 | 0.012 | 0.18 |
| 2010 | 3.1 | 0.15 | 1.13 | -25.1 | -2.1 | 2.2 | 0.012 | 0.17 |
| 2011 | 3.1 | 0.21 | 1.25 | -26.7 | -3.0 | 2.1 | 0.011 | 0.17 |
| 2012 | 3.1 | 0.26 | 1.37 | -28.4 | -3.8 | 2.1 | 0.011 | 0.16 |
| 2013 | 3.1 | 0.32 | 1.48 | -30.1 | -4.7 | 2.0 | 0.011 | 0.15 |
| 2014 | 3.1 | 0.36 | 1.60 | -31.9 | -5.7 | 1.9 | 0.010 | 0.15 |
| 2015 | 3.1 | 0.41 | 1.71 | -33.8 | -6.6 | 1.8 | 0.010 | 0.14 |
| 2016 | 3.1 | 0.44 | 1.82 | -35.7 | -7.6 | 1.7 | 0.009 | 0.14 |
| 2017 | 3.1 | 0.48 | 1.94 | -37.7 | -8.6 | 1.6 | 0.009 | 0.13 |
| 2018 | 3.1 | 0.51 | 2.05 | -39.7 | -9.6 | 1.6 | 0.008 | 0.12 |
| 2019 | 3.1 | 0.54 | 2.15 | -41.9 | -10.6 | 1.5 | 0.008 | 0.12 |
| 2020 | 3.1 | 0.56 | 2.26 | -44.1 | -11.7 | 1.4 | 0.007 | 0.11 |
| 2021 | 3.1 | 0.58 | 2.37 | -46.3 | -12.8 | 1.3 | 0.007 | 0.10 |
| 2022 | 3.1 | 0.60 | 2.47 | -48.7 | -13.9 | 1.2 | 0.007 | 0.10 |
| 2023 | 3.1 | 0.61 | 2.57 | -51.1 | -15.0 | 1.1 | 0.006 | 0.09 |
| 2024 | 3.1 | 0.62 | 2.67 | -53.5 | -16.1 | 1.1 | 0.006 | 0.08 |
| 2025 | 3.1 | 0.62 | 2.77 | -56.1 | -17.3 | 1.0 | 0.005 | 0.08 |
| 2026 | 3.1 | 0.62 | 2.87 | -58.7 | -18.5 | 0.9 | 0.005 | 0.07 |
| 2027 | 3.1 | 0.62 | 2.97 | -61.3 | -19.7 | 0.8 | 0.004 | 0.06 |
| 2028 | 3.1 | 0.61 | 3.06 | -64.1 | -21.0 | 0.7 | 0.004 | 0.06 |
| 2029 | 3.1 | 0.60 | 3.16 | -66.9 | -22.3 | 0.6 | 0.003 | 0.05 |
| 2030 | 3.1 | 0.58 | 3.25 | -69.7 | -23.6 | 0.6 | 0.003 | 0.04 |
| 2031 | 3.1 | 0.56 | 3.34 | -72.7 | -24.9 | 0.5 | 0.002 | 0.04 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.37 Combined Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 3.1 | -0.20 | 0.52 | -18.1 | 1.8 | 2.6 | 0.014 | 0.21 |
| 2006 | 3.1 | -0.26 | 0.60 | -21.7 | 2.2 | 2.6 | 0.014 | 0.20 |
| 2007 | 3.1 | -0.32 | 0.68 | -25.2 | 2.5 | 2.5 | 0.013 | 0.20 |
| 2008 | 3.1 | -0.38 | 0.75 | -28.8 | 2.9 | 2.4 | 0.013 | 0.19 |
| 2009 | 3.1 | -0.44 | 0.83 | -32.4 | 3.3 | 2.3 | 0.012 | 0.18 |
| 2010 | 3.1 | -0.50 | 0.91 | -36.0 | 3.6 | 2.3 | 0.012 | 0.18 |
| 2011 | 3.1 | -0.56 | 0.99 | -39.6 | 4.0 | 2.2 | 0.012 | 0.17 |
| 2012 | 3.1 | -0.63 | 1.07 | -43.2 | 4.3 | 2.1 | 0.011 | 0.17 |
| 2013 | 3.1 | -0.69 | 1.14 | -46.8 | 4.6 | 2.0 | 0.011 | 0.16 |
| 2014 | 3.1 | -0.76 | 1.22 | -50.5 | 4.9 | 2.0 | 0.010 | 0.15 |
| 2015 | 3.1 | -0.82 | 1.29 | -54.1 | 5.2 | 1.9 | 0.010 | 0.15 |
| 2016 | 3.1 | -0.89 | 1.37 | -57.7 | 5.5 | 1.8 | 0.010 | 0.14 |
| 2017 | 3.1 | -0.96 | 1.44 | -61.4 | 5.8 | 1.7 | 0.009 | 0.14 |
| 2018 | 3.1 | -1.03 | 1.52 | -65.0 | 6.1 | 1.7 | 0.009 | 0.13 |
| 2019 | 3.1 | -1.09 | 1.59 | -68.6 | 6.4 | 1.6 | 0.008 | 0.12 |
| 2020 | 3.1 | -1.16 | 1.66 | -72.3 | 6.6 | 1.5 | 0.008 | 0.12 |
| 2021 | 3.1 | -1.23 | 1.73 | -76.0 | 6.9 | 1.4 | 0.008 | 0.11 |
| 2022 | 3.1 | -1.31 | 1.80 | -79.6 | 7.1 | 1.4 | 0.007 | 0.11 |
| 2023 | 3.1 | -1.38 | 1.88 | -83.3 | 7.4 | 1.3 | 0.007 | 0.10 |
| 2024 | 3.1 | -1.45 | 1.95 | -87.0 | 7.6 | 1.2 | 0.007 | 0.10 |
| 2025 | 3.1 | -1.53 | 2.02 | -90.7 | 7.8 | 1.1 | 0.006 | 0.09 |
| 2026 | 3.1 | -1.60 | 2.08 | -94.4 | 8.0 | 1.1 | 0.006 | 0.08 |
| 2027 | 3.1 | -1.68 | 2.15 | -98.1 | 8.2 | 1.0 | 0.005 | 0.08 |
| 2028 | 3.1 | -1.75 | 2.22 | -101.8 | 8.4 | 0.9 | 0.005 | 0.07 |
| 2029 | 3.1 | -1.83 | 2.29 | -105.5 | 8.6 | 0.9 | 0.005 | 0.07 |
| 2030 | 3.1 | -1.91 | 2.36 | -109.2 | 8.8 | 0.8 | 0.004 | 0.06 |
| 2031 | 3.1 | -1.98 | 2.42 | -113.0 | 9.0 | 0.7 | 0.004 | 0.06 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

## *D1.11 FERROUS METALS*

### *Table D1.38 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2006 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2007 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2008 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2009 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2010 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2011 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2012 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2013 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2014 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2015 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2016 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2017 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2018 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2019 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2020 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2021 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2022 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2023 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2024 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2025 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2026 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2027 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2028 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2029 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2030 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2031 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.39 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 4.1 | -1.80 | -1.24 | -16.7 | -1.89 | 1.88 | 0.010 | 0.15 |
| 2006 | 4.1 | -1.83 | -1.26 | -17.0 | -1.93 | 1.84 | 0.010 | 0.14 |
| 2007 | 4.1 | -1.86 | -1.28 | -17.3 | -1.97 | 1.80 | 0.010 | 0.14 |
| 2008 | 4.1 | -1.89 | -1.31 | -17.6 | -2.01 | 1.76 | 0.009 | 0.14 |
| 2009 | 4.1 | -1.92 | -1.33 | -17.8 | -2.05 | 1.73 | 0.009 | 0.14 |
| 2010 | 4.1 | -1.95 | -1.35 | -18.1 | -2.08 | 1.69 | 0.009 | 0.13 |
| 2011 | 4.1 | -1.98 | -1.37 | -18.4 | -2.12 | 1.65 | 0.009 | 0.13 |
| 2012 | 4.1 | -2.01 | -1.39 | -18.7 | -2.16 | 1.61 | 0.009 | 0.13 |
| 2013 | 4.1 | -2.04 | -1.41 | -19.0 | -2.19 | 1.58 | 0.008 | 0.12 |
| 2014 | 4.1 | -2.07 | -1.43 | -19.2 | -2.23 | 1.54 | 0.008 | 0.12 |
| 2015 | 4.1 | -2.10 | -1.45 | -19.5 | -2.27 | 1.50 | 0.008 | 0.12 |
| 2016 | 4.1 | -2.13 | -1.47 | -19.8 | -2.30 | 1.47 | 0.008 | 0.12 |
| 2017 | 4.1 | -2.16 | -1.49 | -20.1 | -2.34 | 1.43 | 0.008 | 0.11 |
| 2018 | 4.1 | -2.19 | -1.51 | -20.3 | -2.37 | 1.40 | 0.007 | 0.11 |
| 2019 | 4.1 | -2.22 | -1.53 | -20.6 | -2.40 | 1.36 | 0.007 | 0.11 |
| 2020 | 4.1 | -2.25 | -1.55 | -20.9 | -2.44 | 1.33 | 0.007 | 0.10 |
| 2021 | 4.1 | -2.28 | -1.57 | -21.1 | -2.47 | 1.29 | 0.007 | 0.10 |
| 2022 | 4.1 | -2.30 | -1.59 | -21.4 | -2.51 | 1.26 | 0.007 | 0.10 |
| 2023 | 4.1 | -2.33 | -1.61 | -21.7 | -2.54 | 1.22 | 0.007 | 0.10 |
| 2024 | 4.1 | -2.36 | -1.63 | -21.9 | -2.57 | 1.19 | 0.006 | 0.09 |
| 2025 | 4.1 | -2.39 | -1.65 | -22.2 | -2.61 | 1.15 | 0.006 | 0.09 |
| 2026 | 4.1 | -2.42 | -1.67 | -22.4 | -2.64 | 1.12 | 0.006 | 0.09 |
| 2027 | 4.1 | -2.44 | -1.69 | -22.7 | -2.67 | 1.08 | 0.006 | 0.09 |
| 2028 | 4.1 | -2.47 | -1.71 | -23.0 | -2.70 | 1.05 | 0.006 | 0.08 |
| 2029 | 4.1 | -2.50 | -1.73 | -23.2 | -2.74 | 1.02 | 0.005 | 0.08 |
| 2030 | 4.1 | -2.53 | -1.75 | -23.5 | -2.77 | 0.98 | 0.005 | 0.08 |
| 2031 | 4.1 | -2.55 | -1.76 | -23.7 | -2.80 | 0.95 | 0.005 | 0.07 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

## *D1.12 NON-FERROUS METALS*

### *Table D1.40 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2006 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2007 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2008 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2009 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2010 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2011 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2012 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2013 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2014 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2015 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2016 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2017 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2018 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2019 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2020 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2021 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2022 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2023 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2024 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2025 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2026 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2027 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2028 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2029 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2030 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2031 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.41 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 1.99 | -16.7 | -15.7 | -182.4 | -168.3 | 0.71 | 0.0038 | 0.056 |
| 2006 | 1.99 | -16.9 | -15.8 | -183.9 | -169.7 | 0.70 | 0.0037 | 0.055 |
| 2007 | 1.99 | -17.0 | -16.0 | -185.4 | -171.1 | 0.69 | 0.0037 | 0.054 |
| 2008 | 1.99 | -17.1 | -16.1 | -186.8 | -172.4 | 0.68 | 0.0036 | 0.053 |
| 2009 | 1.99 | -17.3 | -16.2 | -188.3 | -173.8 | 0.67 | 0.0036 | 0.053 |
| 2010 | 1.99 | -17.4 | -16.3 | -189.8 | -175.1 | 0.66 | 0.0035 | 0.052 |
| 2011 | 1.99 | -17.5 | -16.5 | -191.2 | -176.5 | 0.65 | 0.0035 | 0.051 |
| 2012 | 1.99 | -17.7 | -16.6 | -192.7 | -177.8 | 0.64 | 0.0034 | 0.050 |
| 2013 | 1.99 | -17.8 | -16.7 | -194.1 | -179.1 | 0.63 | 0.0034 | 0.049 |
| 2014 | 1.99 | -17.9 | -16.8 | -195.5 | -180.4 | 0.62 | 0.0033 | 0.049 |
| 2015 | 1.99 | -18.1 | -16.9 | -196.9 | -181.8 | 0.61 | 0.0033 | 0.048 |
| 2016 | 1.99 | -18.2 | -17.1 | -198.3 | -183.1 | 0.60 | 0.0032 | 0.047 |
| 2017 | 1.99 | -18.3 | -17.2 | -199.7 | -184.3 | 0.59 | 0.0032 | 0.046 |
| 2018 | 1.99 | -18.4 | -17.3 | -201.1 | -185.6 | 0.58 | 0.0031 | 0.046 |
| 2019 | 1.99 | -18.6 | -17.4 | -202.5 | -186.9 | 0.57 | 0.0031 | 0.045 |
| 2020 | 1.99 | -18.7 | -17.5 | -203.9 | -188.2 | 0.56 | 0.0030 | 0.044 |
| 2021 | 1.99 | -18.8 | -17.7 | -205.3 | -189.4 | 0.55 | 0.0029 | 0.043 |
| 2022 | 1.99 | -18.9 | -17.8 | -206.6 | -190.7 | 0.54 | 0.0029 | 0.043 |
| 2023 | 1.99 | -19.1 | -17.9 | -208.0 | -192.0 | 0.53 | 0.0028 | 0.042 |
| 2024 | 1.99 | -19.2 | -18.0 | -209.3 | -193.2 | 0.52 | 0.0028 | 0.041 |
| 2025 | 1.99 | -19.3 | -18.1 | -210.7 | -194.4 | 0.51 | 0.0027 | 0.040 |
| 2026 | 1.99 | -19.4 | -18.2 | -212.0 | -195.7 | 0.50 | 0.0027 | 0.040 |
| 2027 | 1.99 | -19.6 | -18.4 | -213.3 | -196.9 | 0.50 | 0.0026 | 0.039 |
| 2028 | 1.99 | -19.7 | -18.5 | -214.6 | -198.1 | 0.49 | 0.0026 | 0.038 |
| 2029 | 1.99 | -19.8 | -18.6 | -215.9 | -199.3 | 0.48 | 0.0025 | 0.037 |
| 2030 | 1.99 | -19.9 | -18.7 | -217.2 | -200.5 | 0.47 | 0.0025 | 0.037 |
| 2031 | 1.99 | -20.0 | -18.8 | -218.5 | -201.7 | 0.46 | 0.0025 | 0.036 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

## *D1.13 SILT/SOIL*

### *Table D1.42 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2006 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2007 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2008 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2009 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2010 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2011 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2012 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2013 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2014 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2015 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2016 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2017 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2018 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2019 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2020 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2021 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2022 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2023 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2024 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2025 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2026 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2027 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2028 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2029 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2030 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2031 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.43 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 50.7 | 0.65 | 0.65 | 9.3 | 9.4 | 13.71 | 0.073 | 1.08 |
| 2006 | 50.7 | 0.65 | 0.66 | 9.3 | 9.5 | 13.55 | 0.072 | 1.06 |
| 2007 | 50.7 | 0.65 | 0.66 | 9.4 | 9.6 | 13.40 | 0.072 | 1.05 |
| 2008 | 50.7 | 0.65 | 0.67 | 9.4 | 9.7 | 13.26 | 0.071 | 1.04 |
| 2009 | 50.7 | 0.65 | 0.68 | 9.4 | 9.8 | 13.12 | 0.070 | 1.03 |
| 2010 | 50.7 | 0.65 | 0.69 | 9.5 | 10.0 | 12.99 | 0.069 | 1.02 |
| 2011 | 50.7 | 0.65 | 0.70 | 9.5 | 10.1 | 12.87 | 0.069 | 1.01 |
| 2012 | 50.7 | 0.65 | 0.71 | 9.6 | 10.2 | 12.75 | 0.068 | 1.00 |
| 2013 | 50.7 | 0.66 | 0.71 | 9.6 | 10.4 | 12.64 | 0.068 | 0.99 |
| 2014 | 50.7 | 0.66 | 0.72 | 9.6 | 10.5 | 12.53 | 0.067 | 0.98 |
| 2015 | 50.7 | 0.66 | 0.73 | 9.7 | 10.6 | 12.43 | 0.066 | 0.98 |
| 2016 | 50.7 | 0.66 | 0.74 | 9.7 | 10.8 | 12.34 | 0.066 | 0.97 |
| 2017 | 50.7 | 0.67 | 0.75 | 9.8 | 10.9 | 12.25 | 0.065 | 0.96 |
| 2018 | 50.7 | 0.67 | 0.76 | 9.8 | 11.0 | 12.17 | 0.065 | 0.96 |
| 2019 | 50.7 | 0.67 | 0.77 | 9.9 | 11.2 | 12.09 | 0.065 | 0.95 |
| 2020 | 50.7 | 0.68 | 0.78 | 9.9 | 11.3 | 12.03 | 0.064 | 0.94 |
| 2021 | 50.7 | 0.68 | 0.79 | 10.0 | 11.4 | 11.96 | 0.064 | 0.94 |
| 2022 | 50.7 | 0.68 | 0.80 | 10.0 | 11.6 | 11.91 | 0.064 | 0.94 |
| 2023 | 50.7 | 0.68 | 0.81 | 10.1 | 11.7 | 11.86 | 0.063 | 0.93 |
| 2024 | 50.7 | 0.69 | 0.82 | 10.1 | 11.8 | 11.82 | 0.063 | 0.93 |
| 2025 | 50.7 | 0.69 | 0.83 | 10.2 | 12.0 | 11.78 | 0.063 | 0.93 |
| 2026 | 50.7 | 0.69 | 0.83 | 10.3 | 12.1 | 11.75 | 0.063 | 0.92 |
| 2027 | 50.7 | 0.70 | 0.84 | 10.3 | 12.3 | 11.73 | 0.063 | 0.92 |
| 2028 | 50.7 | 0.70 | 0.85 | 10.4 | 12.4 | 11.71 | 0.063 | 0.92 |
| 2029 | 50.7 | 0.70 | 0.86 | 10.4 | 12.5 | 11.70 | 0.063 | 0.92 |
| 2030 | 50.7 | 0.71 | 0.87 | 10.5 | 12.7 | 11.69 | 0.062 | 0.92 |
| 2031 | 50.7 | 0.71 | 0.88 | 10.5 | 12.8 | 11.69 | 0.062 | 0.92 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

## *D1.14 MINERAL MATERIALS*

### *Table D1.44 Baseline Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2006 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2007 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2008 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2009 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2010 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2011 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2012 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2013 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2014 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2015 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2016 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2017 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2018 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2019 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2020 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2021 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2022 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2023 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2024 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2025 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2026 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2027 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2028 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2029 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2030 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2031 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |

*Table D1.45 High Resource Recovery Scenario*

| Year | Waste Arisings (Mt) | Min Net GHG Emissions (Mt $CO_2$-eq) | Max Net GHG Emissions (Mt $CO_2$-eq) | Min Net Fossil Energy Demand (PJ-eq) | Max Net Fossil Energy Demand (PJ-eq) | Residual Waste to Landfill | Landfill Net GHG Emissions (Mt $CO_2$-eq) | Landfill Net Fossil Energy Demand (PJ-eq) |
|---|---|---|---|---|---|---|---|---|
| 2005 | 59.9 | 0.83 | 1.02 | 12.06 | 14.68 | 10.8 | 0.058 | 0.85 |
| 2006 | 59.9 | 0.83 | 1.02 | 12.06 | 14.69 | 10.9 | 0.058 | 0.85 |
| 2007 | 59.9 | 0.82 | 1.02 | 12.07 | 14.70 | 11.0 | 0.059 | 0.86 |
| 2008 | 59.9 | 0.82 | 1.02 | 12.07 | 14.70 | 11.1 | 0.059 | 0.87 |
| 2009 | 59.9 | 0.82 | 1.02 | 12.07 | 14.71 | 11.2 | 0.060 | 0.88 |
| 2010 | 59.9 | 0.82 | 1.02 | 12.08 | 14.71 | 11.3 | 0.060 | 0.89 |
| 2011 | 59.9 | 0.82 | 1.02 | 12.09 | 14.73 | 11.4 | 0.061 | 0.90 |
| 2012 | 59.9 | 0.82 | 1.02 | 12.11 | 14.75 | 11.5 | 0.062 | 0.91 |
| 2013 | 59.9 | 0.82 | 1.02 | 12.13 | 14.77 | 11.6 | 0.062 | 0.91 |
| 2014 | 59.9 | 0.82 | 1.02 | 12.14 | 14.79 | 11.8 | 0.063 | 0.92 |
| 2015 | 59.9 | 0.82 | 1.02 | 12.16 | 14.81 | 11.9 | 0.063 | 0.93 |
| 2016 | 59.9 | 0.82 | 1.02 | 12.18 | 14.83 | 12.0 | 0.064 | 0.94 |
| 2017 | 59.9 | 0.83 | 1.03 | 12.20 | 14.85 | 12.1 | 0.065 | 0.95 |
| 2018 | 59.9 | 0.83 | 1.03 | 12.21 | 14.87 | 12.2 | 0.065 | 0.96 |
| 2019 | 59.9 | 0.83 | 1.03 | 12.23 | 14.89 | 12.3 | 0.066 | 0.97 |
| 2020 | 59.9 | 0.83 | 1.03 | 12.25 | 14.91 | 12.5 | 0.067 | 0.98 |
| 2021 | 59.9 | 0.83 | 1.03 | 12.27 | 14.93 | 12.6 | 0.067 | 0.99 |
| 2022 | 59.9 | 0.83 | 1.03 | 12.29 | 14.95 | 12.7 | 0.068 | 1.00 |
| 2023 | 59.9 | 0.83 | 1.03 | 12.30 | 14.97 | 12.8 | 0.068 | 1.01 |
| 2024 | 59.9 | 0.83 | 1.03 | 12.32 | 14.99 | 12.9 | 0.069 | 1.02 |
| 2025 | 59.9 | 0.83 | 1.04 | 12.34 | 15.01 | 13.1 | 0.070 | 1.03 |
| 2026 | 59.9 | 0.83 | 1.04 | 12.36 | 15.03 | 13.2 | 0.070 | 1.04 |
| 2027 | 59.9 | 0.83 | 1.04 | 12.38 | 15.05 | 13.3 | 0.071 | 1.05 |
| 2028 | 59.9 | 0.84 | 1.04 | 12.39 | 15.07 | 13.4 | 0.072 | 1.05 |
| 2029 | 59.9 | 0.84 | 1.04 | 12.41 | 15.09 | 13.6 | 0.072 | 1.06 |
| 2030 | 59.9 | 0.84 | 1.04 | 12.43 | 15.11 | 13.7 | 0.073 | 1.07 |
| 2031 | 59.9 | 0.84 | 1.04 | 12.45 | 15.13 | 13.8 | 0.074 | 1.08 |
| 2035 | - | - | - | - | - | - | - | - |
| 2045 | - | - | - | - | - | - | - | - |
| 2055 | - | - | - | - | - | - | - | - |
| 2065 | - | - | - | - | - | - | - | - |
| 2075 | - | - | - | - | - | - | - | - |
| 2085 | - | - | - | - | - | - | - | - |
| 2095 | - | - | - | - | - | - | - | - |
| 2105 | - | - | - | - | - | - | - | - |