

## BASELINE EMISSION INVENTORY

### 1) Inventory year

For Covenant signatories who calculate their CO2 emissions per capita, please precise here the number of inhabitants during the inventory year:



### 2) Emission factors

Please tick the corresponding box:

- ☒ Standard emission factors in line with the IPCC principles  
☐ LCA (Life Cycle Assessment) factors

Emission reporting unit

Please tick the corresponding box:

- ☒ CO2 emissions  
☐ CO2 equivalent emissions

### 3) Key results of the Baseline Emission Inventory

Green cells are compulsory fields

Grey fields are non editable

#### A. Final energy consumption

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

| Category                                                                           | FINAL ENERGY CONSUMPTION [MWh] |           |              |            |             |         |          |         |       |                    |                    |          |               |               |            |          |
|------------------------------------------------------------------------------------|--------------------------------|-----------|--------------|------------|-------------|---------|----------|---------|-------|--------------------|--------------------|----------|---------------|---------------|------------|----------|
|                                                                                    | Electricity                    | Heat/cold | Fossil fuels |            |             |         |          |         |       |                    | Renewable energies |          |               |               |            | Total    |
|                                                                                    |                                |           | Natural gas  | Liquid gas | Heating Oil | Diesel  | Gasoline | Lignite | Coal  | Other fossil fuels | Plant oil          | Biofuel  | Other biomass | Solar thermal | Geothermal |          |
| BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:                                    |                                |           |              |            |             |         |          |         |       |                    |                    |          |               |               |            |          |
| Municipal buildings, equipment/facilities                                          | 28347                          | 69717,6   | 63707,5      | 0          | 155,9       | 35,4    | 36,3     | 0       | 64,1  | 9237,5             |                    | 76356    |               |               |            | 247657,3 |
| Tertiary (non municipal) buildings, equipment/facilities                           | 13740                          | 24465,3   | 5983,7       | 408,5      |             | 11899,6 | 642      |         | 313,4 | 5461,2             |                    | 6894,4   |               |               |            | 69808,1  |
| Residential buildings                                                              | 587                            | 244901,3  | 60622,2      | 26919,5    |             |         |          |         | 35,6  |                    |                    | 37282,5  |               |               |            | 370348,1 |
| Municipal public lighting                                                          | 3206,0                         |           |              |            |             |         |          |         |       |                    |                    |          |               |               |            | 3206,0   |
| Industries (excluding industries involved in the EU Emission trading scheme - ETS) |                                |           |              |            |             |         |          |         |       |                    |                    |          |               |               |            |          |
| Subtotal buildings, equipments/facilities and industries                           | 45880,0                        | 339084,2  | 130313,4     | 27328      | 155,9       | 11935   | 678,3    | 0       | 413,1 | 14698,7            | 0                  | 120532,9 | 0             | 0             | 0          | 691019,5 |
| TRANSPORT:                                                                         |                                |           |              |            |             |         |          |         |       |                    |                    |          |               |               |            |          |
| Municipal fleet                                                                    |                                |           |              | 306,3      |             | 6075,3  | 10417,8  |         |       | 47,8               |                    |          |               |               |            | 16847,2  |
| Public transport                                                                   |                                |           |              | 12,8       |             | 17704,8 | 1187,1   |         |       | 1697,1             |                    |          |               |               |            | 20601,8  |
| Private and commercial transport                                                   |                                |           |              | 1786,7     |             | 55068,9 | 61440,7  |         |       | 2163,1             |                    |          |               |               |            | 120459,4 |
| Subtotal transport                                                                 |                                |           |              | 2105,8     |             | 78849   | 73045,6  |         |       | 3908               |                    |          |               |               |            | 157908,4 |
| Total                                                                              | 45880                          | 339084,2  | 130313,4     | 29433,8    | 155,9       | 90784   | 73723,9  |         | 413,1 | 18606,7            |                    | 120532,9 |               |               |            | 848927,9 |

Municipal purchases of certified green electricity (if any) [MWh]:

CO2 emission factor for certified green electricity purchases (for LCA approach):

#### B. CO2 or CO2 equivalent emissions

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

| Category                                                                           | CO2 emissions [t]/ CO2 equivalent emissions [t] |           |              |            |             |           |          |         |         |                    |                    |           |               |               |            |             |
|------------------------------------------------------------------------------------|-------------------------------------------------|-----------|--------------|------------|-------------|-----------|----------|---------|---------|--------------------|--------------------|-----------|---------------|---------------|------------|-------------|
|                                                                                    | Electricity                                     | Heat/cold | Fossil fuels |            |             |           |          |         |         |                    | Renewable energies |           |               |               |            | Total       |
|                                                                                    |                                                 |           | Natural gas  | Liquid gas | Heating Oil | Diesel    | Gasoline | Lignite | Coal    | Other fossil fuels | Biofuel            | Plant oil | Other biomass | Solar thermal | Geothermal |             |
| BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:                                    |                                                 |           |              |            |             |           |          |         |         |                    |                    |           |               |               |            |             |
| Municipal buildings, equipment/facilities                                          | 12892,2156                                      | 0         | 12804,0608   | 0          | 54,0586368  | 9,346308  | 8,96581  | 0       | 22,2268 | 0                  | 0                  | 0         | 0             | 0             | 0          | 25790,87392 |
| Tertiary (non municipal) buildings, equipement/facilities                          | 6248,952                                        | 0         | 1202,61599   | 91,832434  | 0           | 3141,7324 | 158,5689 | 0       | 108,672 | 0                  | 0                  | 0         | 0             | 0             | 0          | 10952,37376 |
| Residential buildings                                                              | 266,9676                                        | 0         | 12183,971    | 6051,61128 | 0           | 0         | 0        | 0       | 12,3444 | 0                  | 0                  | 0         | 0             | 0             | 0          | 18514,89425 |
| Municipal public lighting                                                          | 1458,0888                                       | 0         | 0            | 0          | 0           | 0         | 0        | 0       | 0       | 0                  | 0                  | 0         | 0             | 0             | 0          | 1458,0888   |
| Industries (excluding industries involved in the EU Emission trading scheme - ETS) | 0                                               | 0         | 0            | 0          | 0           | 0         | 0        | 0       | 0       | 0                  | 0                  | 0         | 0             | 0             | 0          | 0           |
| Subtotal buildings, equipments/facilities and industries                           | 20866,224                                       | 0         | 26190,6478   | 6143,44371 | 54,0586368  | 3151,0787 | 167,5347 | 0       | 143,243 | 0                  | 0                  | 0         | 0             | 0             | 0          | 56716,23073 |
| TRANSPORT:                                                                         |                                                 |           |              |            |             |           |          |         |         |                    |                    |           |               |               |            |             |
| Municipal fleet                                                                    | 0                                               | 0         | 0            | 68,8574652 | 0           | 1604,0007 | 2573,113 | 0       | 0       | 0                  | 0                  | 0         | 0             | 0             | 0          | 4245,971429 |
| Public transport                                                                   | 0                                               | 0         | 0            | 2,8774912  | 0           | 4674,4213 | 293,2042 | 0       | 0       | 0                  | 0                  | 0         | 0             | 0             | 0          | 4970,50299  |
| Private and commercial transport                                                   | 0                                               | 0         | 0            | 401,657307 | 0           | 14539,291 | 15175,36 | 0       | 0       | 0                  | 0                  | 0         | 0             | 0             | 0          | 30116,30966 |
| Subtotal transport                                                                 | 0                                               | 0         | 0            | 473,392263 | 0           | 20817,713 | 18041,68 | 0       | 0       | 0                  | 0                  | 0         | 0             | 0             | 0          | 39332,78408 |
| OTHER:                                                                             |                                                 |           |              |            |             |           |          |         |         |                    |                    |           |               |               |            |             |
| Waste management                                                                   |                                                 |           |              |            |             |           |          |         |         |                    |                    |           |               |               |            |             |
| Waste water management                                                             |                                                 |           |              |            |             |           |          |         |         |                    |                    |           |               |               |            |             |
| Please specify here your other emissions                                           |                                                 |           |              |            |             |           |          |         |         |                    |                    |           |               |               |            |             |
| Total                                                                              | 20866,224                                       | 0         | 26190,6478   | 6616,83598 | 54,0586368  | 23968,792 | 18209,21 | 0       | 143,243 | 0                  | 0                  | 0         | 0             | 0             | 0          | 96049,01481 |

Corresponding CO2-emission factors in [t/MWh]

0,4548 0 0,200982 0,224804 0,346752 0,26402 0,246992 0,342538 0,34675 0 0 0 0 0 0 0

CO2 emission factor for electricity not produced locally [t/MWh]

0,4548

### C. Local electricity production and corresponding CO2 emissions

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

| Locally generated electricity<br>(excluding ETS plants , and all plants/units > 20 MW) | Locally generated electricity<br>[MWh] | Energy carrier input [MWh] |            |             |         |      |       |       |           |               |                 | CO2 / CO2-<br>eq<br>emissions<br>[t] | Corresponding CO2-<br>emission factors for<br>electricity production in<br>[t/MWh] |       |
|----------------------------------------------------------------------------------------|----------------------------------------|----------------------------|------------|-------------|---------|------|-------|-------|-----------|---------------|-----------------|--------------------------------------|------------------------------------------------------------------------------------|-------|
|                                                                                        |                                        | Fossil fuels               |            |             |         |      | Steam | Waste | Plant oil | Other biomass | Other renewable |                                      |                                                                                    | other |
|                                                                                        |                                        | Natural gas                | Liquid gas | Heating oil | Lignite | Coal |       |       |           |               |                 |                                      |                                                                                    |       |
| Wind power                                                                             |                                        |                            |            |             |         |      |       |       |           |               |                 |                                      |                                                                                    |       |
| Hydroelectric power                                                                    |                                        |                            |            |             |         |      |       |       |           |               |                 |                                      |                                                                                    |       |
| Photovoltaic                                                                           |                                        |                            |            |             |         |      |       |       |           |               |                 |                                      |                                                                                    |       |
| Combined Heat and Power                                                                | 42571                                  | 52565                      |            |             |         |      |       |       |           |               |                 | 11150                                | 0,26                                                                               |       |
| Other<br><i>Please specify: _____</i>                                                  |                                        |                            |            |             |         |      |       |       |           |               |                 |                                      |                                                                                    |       |
| Total                                                                                  | 42571                                  | 52565                      |            |             |         |      |       |       |           |               |                 | 11150                                |                                                                                    |       |

### D. Local heat/cold production (district heating/cooling, CHPs...) and corresponding CO2 emissions

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

| Locally generated heat/cold           | Locally generated heat/cold [MWh] | Energy carrier input [MWh] |            |             |         |      |       |           |               |                 |        | CO2 / CO2-<br>eq emissions [t] | Corresponding CO2-<br>emission factors for heat/cold production in [t/MWh] |
|---------------------------------------|-----------------------------------|----------------------------|------------|-------------|---------|------|-------|-----------|---------------|-----------------|--------|--------------------------------|----------------------------------------------------------------------------|
|                                       |                                   | Fossil fuels               |            |             |         |      | Waste | Plant oil | Other biomass | Other renewable | other  |                                |                                                                            |
|                                       |                                   | Natural gas                | Liquid gas | Heating oil | Lignite | Coal |       |           |               |                 |        |                                |                                                                            |
| Combined Heat and Power               | 259674                            | 292999                     |            |             |         |      |       |           |               |                 |        | 62148                          | 0,24                                                                       |
| District Heating plant(s)             | 223703,2                          | 250518,6                   |            |             |         |      |       |           |               | 28239,9         | 1569,4 | 63022                          | 0,25                                                                       |
| Other<br><i>Please specify: _____</i> |                                   |                            |            |             |         |      |       |           |               |                 |        |                                |                                                                            |
| Total                                 | 483377,2                          | 543517,6                   |            |             |         |      |       |           |               | 28239,9         | 1569,4 | 125170                         |                                                                            |

#### 4) Other CO2 emission inventories

If other inventory(ies) have been carried out, please click [here ->](#)

Otherwise go to the [last part of the SEAP template ->](#) dedicated to your Sustainable Energy Action Plan

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