

| North Macedonia<br>ktoe 2019             | Total          | Solid fossil fuels | Manufactured gases | Peat and peat products | Oil shale and oil sands | Oil and petroleum products | Natural gas  | Renewables and biofuels | Non-renewable waste | Nuclear heat | Heat        | Electricity  |
|--|----------------|--------------------|--------------------|------------------------|-------------------------|----------------------------|--------------|-------------------------|---------------------|--------------|-------------|--------------|
| + Primary production                     | 1 143.0        | 860.4              | Z                  | 0.0                    | 0.0                     | 0.0                        | 0.0          | 282.7                   | 0.0                 | 0.0          | 0.0         | Z            |
| + Recovered & recycled products          | 0.0            | 0.0                | Z                  | 0.0                    | 0.0                     | 0.0                        | Z            | 0.0                     | Z                   | Z            | Z           | Z            |
| + Imports                                | 1 867.1        | 122.4              | 0.0                | 0.0                    | 0.0                     | 1 257.3                    | 244.0        | 36.1                    | 0.0                 | Z            | 0.0         | 207.3        |
| - Exports                                | 203.0          | 0.5                | 0.0                | 0.0                    | 0.0                     | 152.2                      | 0.0          | 0.3                     | 0.0                 | Z            | 0.0         | 50.1         |
| + Change in stock                        | 36.7           | 56.3               | 0.0                | 0.0                    | 0.0                     | -21.5                      | 0.1          | 1.9                     | 0.0                 | Z            | Z           | Z            |
| <b>= Gross available energy</b>          | <b>2 843.8</b> | <b>1 038.6</b>     | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>1 083.6</b>             | <b>244.1</b> | <b>320.3</b>            | <b>0.0</b>          | <b>0.0</b>   | <b>0.0</b>  | <b>157.2</b> |
| - International maritime bunkers         | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | Z                   | Z            | Z           | Z            |
| <b>= Gross inland consumption</b>        | <b>2 843.8</b> | <b>1 038.6</b>     | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>1 083.6</b>             | <b>244.1</b> | <b>320.3</b>            | <b>0.0</b>          | <b>0.0</b>   | <b>0.0</b>  | <b>157.2</b> |
| - International aviation                 | 28.0           | Z                  | Z                  | Z                      | Z                       | 28.0                       | Z            | 0.0                     | Z                   | Z            | Z           | Z            |
| <b>= Total energy supply</b>             | <b>2 815.9</b> | <b>1 038.6</b>     | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>1 055.6</b>             | <b>244.1</b> | <b>320.3</b>            | <b>0.0</b>          | <b>0.0</b>   | <b>0.0</b>  | <b>157.2</b> |
| <b>Transformation input</b>              | <b>1 242.8</b> | <b>896.8</b>       | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>16.5</b>                | <b>199.7</b> | <b>129.9</b>            | <b>0.0</b>          | <b>0.0</b>   | <b>0.0</b>  | <b>0.0</b>   |
| + Electricity & heat generation          | 1 242.7        | 896.8              | 0.0                | 0.0                    | 0.0                     | 16.5                       | 199.7        | 129.8                   | 0.0                 | 0.0          | 0.0         | 0.0          |
| + Coke ovens                             | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | Z                   | Z            | Z           | Z            |
| + Blast furnaces                         | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | Z                   | Z            | Z           | Z            |
| + Gas works                              | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | Z                   | Z            | Z           | Z            |
| + Refineries & petrochemical industry    | 0.0            | Z                  | Z                  | Z                      | Z                       | 0.0                        | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + Patent fuel plants                     | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | Z            | 0.0                     | 0.0                 | Z            | Z           | Z            |
| + BKB & PB plants                        | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | Z                          | Z            | 0.0                     | 0.0                 | Z            | Z           | Z            |
| + Coal liquefaction plants               | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | Z                          | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + For blended natural gas                | 0.0            | Z                  | 0.0                | Z                      | Z                       | 0.0                        | Z            | 0.0                     | Z                   | Z            | Z           | Z            |
| + Liquid biofuels blended                | 0.1            | Z                  | Z                  | Z                      | Z                       | Z                          | Z            | 0.1                     | Z                   | Z            | Z           | Z            |
| + Charcoal production plants             | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | Z            | 0.0                     | Z                   | Z            | Z           | Z            |
| + Gas-to-liquids plants                  | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | 0.0          | Z                       | Z                   | Z            | Z           | Z            |
| + Not elsewhere specified                | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | Z           | Z            |
| <b>Transformation output</b>             | <b>553.8</b>   | <b>0.0</b>         | <b>0.0</b>         | <b>0.0</b>             | <b>Z</b>                | <b>0.0</b>                 | <b>0.0</b>   | <b>0.1</b>              | <b>Z</b>            | <b>Z</b>     | <b>49.0</b> | <b>504.7</b> |
| + Electricity & heat generation          | 553.7          | Z                  | Z                  | Z                      | Z                       | Z                          | Z            | Z                       | Z                   | Z            | 49.0        | 504.7        |
| + Coke ovens                             | 0.0            | 0.0                | 0.0                | Z                      | Z                       | Z                          | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + Blast furnaces                         | 0.0            | 0.0                | 0.0                | Z                      | Z                       | Z                          | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + Gas works                              | 0.0            | 0.0                | 0.0                | Z                      | Z                       | Z                          | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + Refineries & petrochemical industry    | 0.0            | Z                  | Z                  | Z                      | Z                       | 0.0                        | Z            | 0.0                     | Z                   | Z            | Z           | Z            |
| + Patent fuel plants                     | 0.0            | 0.0                | Z                  | Z                      | Z                       | Z                          | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + BKB & PB plants                        | 0.0            | 0.0                | Z                  | 0.0                    | Z                       | Z                          | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + Coal liquefaction plants               | 0.0            | Z                  | Z                  | Z                      | Z                       | 0.0                        | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + Blended in natural gas                 | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | 0.0          | Z                       | Z                   | Z            | Z           | Z            |
| + Liquid biofuels blended                | 0.1            | Z                  | Z                  | Z                      | Z                       | Z                          | Z            | 0.1                     | Z                   | Z            | Z           | Z            |
| + Charcoal production plants             | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | Z            | 0.0                     | Z                   | Z            | Z           | Z            |
| + Gas-to-liquids plants                  | 0.0            | Z                  | Z                  | Z                      | Z                       | 0.0                        | Z            | Z                       | Z                   | Z            | Z           | Z            |
| + Not elsewhere specified                | 0.0            | 0.0                | 0.0                | 0.0                    | Z                       | 0.0                        | Z            | Z                       | Z                   | Z            | Z           | Z            |
| <b>Energy sector</b>                     | <b>42.9</b>    | <b>0.0</b>         | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>1.4</b>                 | <b>0.0</b>   | <b>0.0</b>              | <b>0.0</b>          | <b>Z</b>     | <b>0.3</b>  | <b>41.1</b>  |
| + Own use in electricity & heat genera   | 32.3           | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.2                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.3         | 31.7         |
| + Coal mines                             | 8.8            | 0.0                | 0.0                | 0.0                    | 0.0                     | 1.2                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 7.6          |
| + Oil & natural gas extraction plants    | 0.0            | Z                  | Z                  | Z                      | Z                       | 0.0                        | 0.0          | 0.0                     | Z                   | Z            | 0.0         | 0.0          |
| + Patent fuel plants                     | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | Z                          | Z            | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + Coke ovens                             | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + BKB & PB plants                        | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | Z                          | Z            | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + Gas works                              | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + Blast furnaces                         | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + Petroleum refineries (oil refineries)  | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + Nuclear industry                       | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | Z            | Z                       | Z                   | Z            | 0.0         | 0.0          |
| + Coal liquefaction plants               | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | Z                          | Z            | Z                       | Z                   | Z            | 0.0         | 0.0          |
| + Liquefaction & regasification plants ( | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | 0.0          | Z                       | Z                   | Z            | 0.0         | 0.0          |
| + Gasification plants for biogas         | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | Z            | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + Gas-to-liquids (GTL) plants            | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | 0.0          | Z                       | Z                   | Z            | 0.0         | 0.0          |
| + Charcoal production plants             | 0.0            | Z                  | Z                  | Z                      | Z                       | Z                          | Z            | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + Not elsewhere specified (energy)       | 1.8            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 1.8          |
| <b>Distribution losses</b>               | <b>91.5</b>    | <b>0.0</b>         | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>0.0</b>                 | <b>1.2</b>   | <b>0.4</b>              | <b>0.0</b>          | <b>Z</b>     | <b>5.7</b>  | <b>84.2</b>  |
| <b>Available for final consumption</b>   | <b>1 992.4</b> | <b>141.8</b>       | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>1 037.7</b>             | <b>43.2</b>  | <b>190.1</b>            | <b>0.0</b>          | <b>0.0</b>   | <b>43.0</b> | <b>536.6</b> |
| <b>Final non-energy consumption</b>      | <b>58.6</b>    | <b>0.0</b>         | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>58.6</b>                | <b>0.0</b>   | <b>0.0</b>              | <b>Z</b>            | <b>Z</b>     | <b>Z</b>    | <b>Z</b>     |
| <b>Final energy consumption</b>          | <b>1 922.1</b> | <b>130.1</b>       | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>979.1</b>               | <b>43.1</b>  | <b>190.1</b>            | <b>0.0</b>          | <b>Z</b>     | <b>43.0</b> | <b>536.6</b> |
| + Industry                               | 452.2          | 128.4              | 0.0                | 0.0                    | 0.0                     | 141.2                      | 35.4         | 7.5                     | 0.0                 | Z            | 0.4         | 139.3        |
| + Iron & steel                           | 206.7          | 68.1               | 0.0                | 0.0                    | 0.0                     | 51.5                       | 22.3         | 2.3                     | 0.0                 | Z            | 0.4         | 62.0         |
| + Chemical & petrochemical               | 10.0           | 0.0                | 0.0                | 0.0                    | 0.0                     | 2.1                        | 0.9          | 0.0                     | 0.0                 | Z            | 0.0         | 7.0          |
| + Non-ferrous metals                     | 2.3            | 0.0                | 0.0                | 0.0                    | 0.0                     | 1.2                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 1.2          |
| + Non-metallic minerals                  | 107.2          | 59.6               | 0.0                | 0.0                    | 0.0                     | 33.2                       | 1.8          | 0.0                     | 0.0                 | Z            | 0.0         | 12.6         |
| + Transport equipment                    | 18.1           | 0.0                | 0.0                | 0.0                    | 0.0                     | 4.0                        | 3.8          | 0.1                     | 0.0                 | Z            | 0.0         | 10.1         |
| + Machinery                              | 7.9            | 0.0                | 0.0                | 0.0                    | 0.0                     | 2.3                        | 0.1          | 0.2                     | 0.0                 | Z            | 0.0         | 5.2          |
| + Mining & quarrying                     | 25.5           | 0.0                | 0.0                | 0.0                    | 0.0                     | 12.6                       | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 12.9         |
| + Food, beverages & tobacco              | 40.1           | 0.0                | 0.0                | 0.0                    | 0.0                     | 16.5                       | 5.6          | 3.7                     | 0.0                 | Z            | 0.0         | 14.3         |
| + Paper, pulp & printing                 | 2.1            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.5                        | 0.5          | 0.1                     | 0.0                 | Z            | 0.0         | 1.1          |
| + Wood & wood products                   | 0.8            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.1                        | 0.0          | 0.2                     | 0.0                 | Z            | 0.0         | 0.5          |
| + Construction                           | 14.6           | 0.0                | 0.0                | 0.0                    | 0.0                     | 12.6                       | 0.0          | 0.2                     | 0.0                 | Z            | 0.0         | 1.9          |
| + Textile & leather                      | 11.1           | 0.6                | 0.0                | 0.0                    | 0.0                     | 4.3                        | 0.1          | 0.4                     | 0.0                 | Z            | 0.0         | 5.7          |
| + Not elsewhere specified (industry)     | 5.8            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.5                        | 0.2          | 0.4                     | 0.0                 | Z            | 0.0         | 4.7          |
| + Transport                              | 759.8          | 0.0                | 0.0                | 0.0                    | 0.0                     | 756.7                      | 1.8          | 0.1                     | 0.0                 | Z            | Z           | 1.2          |
| + Rail                                   | 3.8            | 0.0                | 0.0                | 0.0                    | 0.0                     | 2.6                        | Z            | 0.0                     | 0.0                 | Z            | Z           | 1.2          |
| + Road                                   | 755.9          | Z                  | Z                  | Z                      | Z                       | 754.1                      | 1.8          | 0.1                     | 0.0                 | Z            | Z           | 0.0          |
| + Domestic aviation                      | 0.0            | Z                  | Z                  | Z                      | Z                       | 0.0                        | Z            | 0.0                     | Z                   | Z            | Z           | Z            |
| + Domestic navigation                    | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | Z            | 0.0                     | 0.0                 | Z            | Z           | Z            |
| + Pipeline transport                     | 0.0            | Z                  | Z                  | Z                      | Z                       | 0.0                        | 0.0          | 0.0                     | Z                   | Z            | Z           | 0.0          |
| + Not elsewhere specified (transport)    | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | Z           | 0.0          |
| + Other                                  | 710.1          | 1.7                | 0.0                | 0.0                    | 0.0                     | 81.2                       | 6.0          | 182.5                   | 0.0                 | Z            | 42.6        | 396.1        |
| + Commercial & public services           | 212.1          | 0.5                | 0.0                | 0.0                    | 0.0                     | 58.2                       | 5.8          | 5.3                     | 0.0                 | Z            | 11.1        | 131.3        |
| + Households                             | 476.5          | 0.6                | 0.0                | 0.0                    | 0.0                     | 10.4                       | 0.2          | 172.5                   | 0.0                 | Z            | 31.5        | 261.4        |
| + Agriculture & forestry                 | 21.4           | 0.6                | 0.0                | 0.0                    | 0.0                     | 12.7                       | 0.0          | 4.8                     | 0.0                 | Z            | 0.0         | 3.4          |
| + Fishing                                | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| + Not elsewhere specified (other)        | 0.0            | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 0.0          | 0.0                     | 0.0                 | Z            | 0.0         | 0.0          |
| <b>Statistical differences</b>           | <b>11.8</b>    | <b>11.7</b>        | <b>0.0</b>         | <b>0.0</b>             | <b>0.0</b>              | <b>0.0</b>                 | <b>0.1</b>   | <b>0.0</b>              | <b>0.0</b>          | <b>0.0</b>   | <b>0.0</b>  | <b>0.0</b>   |
| Gross electricity production             | 504.7          | 301.6              | 0.0                | 0.0                    | 0.0                     | 5.3                        | 82.3         | 115.5                   | 0.0                 | 0.0          | Z           | Z            |
| Gross heat production                    | 49.0           | 0.0                | 0.0                | 0.0                    | 0.0                     | 0.0                        | 49.0         | 0.0                     | 0.0                 | 0.0          | Z           | 0.0          |

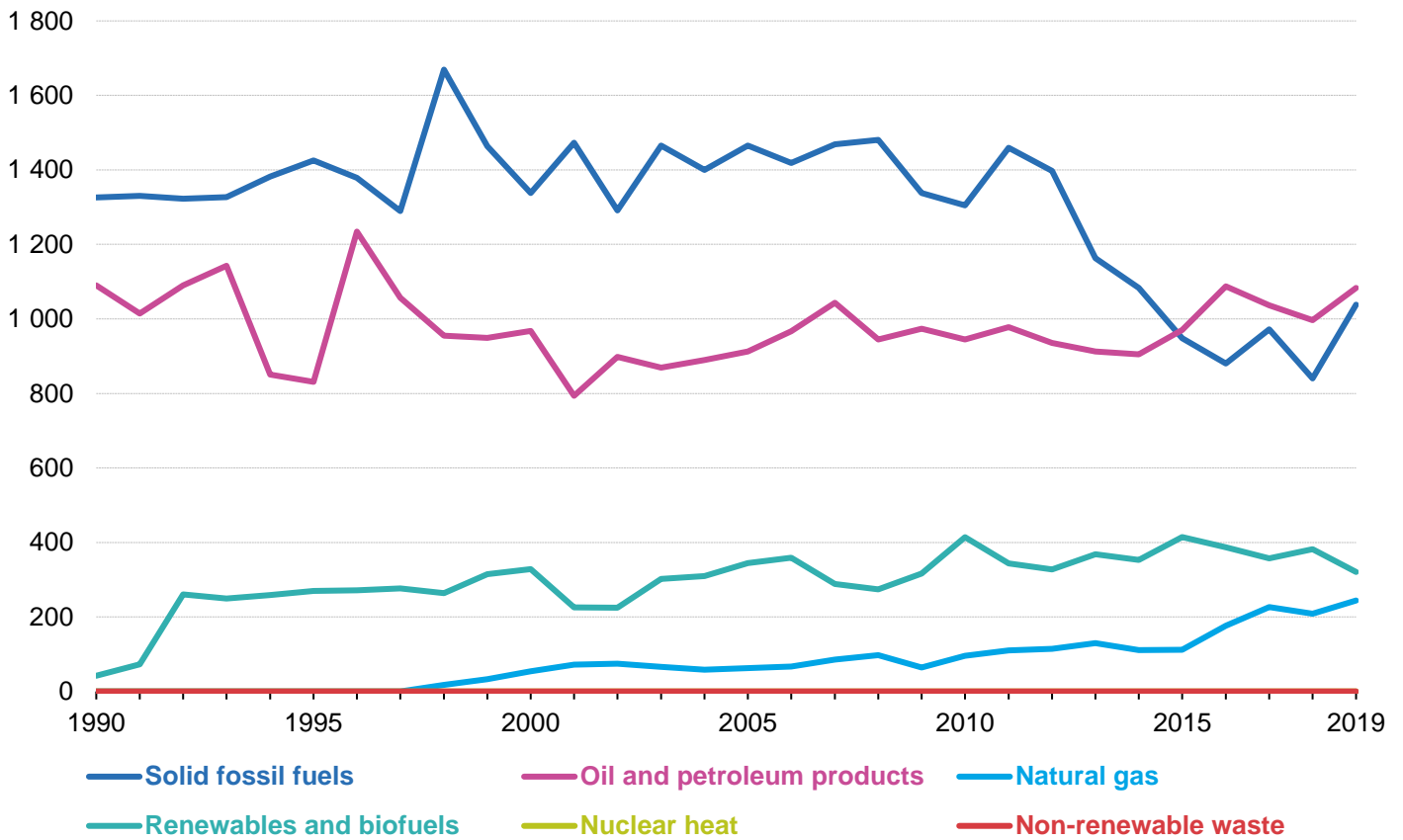
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| North Macedonia                        | ktoe  |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
| <b>Gross available energy</b>          | 3 122 | 3 004 | 2 783 | 2 707 | 2 661 | 2 706 | 2 763 | 2 593 | 2 844 |
| Solid fossil fuels                     | 1 460 | 1 398 | 1 163 | 1 084 | 948   | 880   | 972   | 840   | 1 039 |
| Peat & peat products                   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Oil shale & oil sands                  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Crude oil & other hydrocarbons         | 722   | 266   | 63    | 0     | 0     | 0     | 0     | 0     | 0     |
| Petroleum products                     | 978   | 936   | 913   | 905   | 970   | 1 088 | 1 037 | 996   | 1 084 |
| Natural gas                            | 110   | 114   | 130   | 111   | 112   | 176   | 226   | 209   | 244   |
| Nuclear heat                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Renewable energies                     | 344   | 327   | 369   | 353   | 414   | 387   | 357   | 382   | 320   |
| Non-renewable wastes                   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| <b>Primary production</b>              | 1 756 | 1 561 | 1 425 | 1 331 | 1 271 | 1 121 | 1 166 | 1 148 | 1 143 |
| Solid fossil fuels                     | 1 410 | 1 246 | 1 053 | 986   | 876   | 745   | 849   | 800   | 860   |
| Peat                                   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Oil shale and oil sands                | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Crude oil & other hydrocarbons         | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Natural gas                            | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Nuclear heat                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Renewable energies                     | 345   | 315   | 372   | 345   | 394   | 375   | 317   | 348   | 283   |
| Non-renewable wastes                   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| <b>Net imports</b>                     | 1 424 | 1 448 | 1 300 | 1 396 | 1 395 | 1 590 | 1 553 | 1 514 | 1 664 |
| Solid fossil fuels                     | 132   | 133   | 100   | 120   | 84    | 112   | 89    | 116   | 122   |
| Crude oil                              | 706   | 265   | 53    | -7    | 0     | 0     | 0     | 0     | 0     |
| Gas/Diesel Oil (w/o bio)               | 154   | 357   | 427   | 487   | 545   | 631   | 638   | 629   | 705   |
| Motor Gasoline (w/o bio)               | 8     | 72    | 89    | 106   | 109   | 110   | 110   | 108   | 109   |
| Naphtha                                | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| LPG                                    | 40    | 54    | 60    | 68    | 78    | 86    | 86    | 88    | 88    |
| All other oil & petroleum products     | 952   | 971   | 857   | 904   | 969   | 1 108 | 1 034 | 988   | 1 105 |
| Natural gas                            | 110   | 114   | 130   | 111   | 112   | 176   | 227   | 209   | 244   |
| <b>Transformation input</b>            | 2 311 | 1 733 | 1 410 | 1 206 | 1 168 | 1 099 | 1 190 | 1 113 | 1 243 |
| Electricity & heat generation          | 1 549 | 1 466 | 1 311 | 1 204 | 1 168 | 1 099 | 1 190 | 1 112 | 1 243 |
| Refinery intake                        | 742   | 266   | 80    | 1     | 0     | 0     | 0     | 0     | 0     |
| Coke ovens                             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Blast furnaces                         | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| <b>Transformation output</b>           | 1 355 | 844   | 672   | 511   | 538   | 538   | 539   | 536   | 554   |
| Electricity & heat generation          | 645   | 597   | 575   | 509   | 538   | 538   | 539   | 536   | 554   |
| Refinery output                        | 690   | 246   | 80    | 1     | 0     | 0     | 0     | 0     | 0     |
| Coke ovens                             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Blast furnaces                         | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| <b>Energy sector</b>                   | 83    | 80    | 60    | 48    | 44    | 42    | 43    | 39    | 43    |
| <b>Distribution losses</b>             | 128   | 119   | 107   | 99    | 96    | 95    | 95    | 94    | 91    |
| <b>Available for final consumption</b> | 1 951 | 1 908 | 1 867 | 1 853 | 1 876 | 1 992 | 1 954 | 1 860 | 1 992 |
| Solid fossil fuels                     | 134   | 151   | 122   | 107   | 78    | 132   | 113   | 89    | 142   |
| Manufactured gases                     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Peat & peat products                   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Oil shale & oil sands                  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Gas/Diesel Oil (w/o bio)               | 426   | 427   | 456   | 479   | 536   | 617   | 640   | 635   | 683   |
| Motor Gasoline (w/o bio)               | 138   | 112   | 117   | 107   | 109   | 110   | 109   | 107   | 109   |
| Naphtha                                | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| LPG                                    | 64    | 61    | 65    | 69    | 78    | 86    | 86    | 87    | 90    |
| All other oil & petroleum products     | 862   | 844   | 858   | 851   | 916   | 1 043 | 991   | 958   | 1 038 |
| Natural gas                            | 44    | 23    | 27    | 34    | 31    | 38    | 44    | 43    | 43    |
| Primary solid biofuels & charcoal      | 208   | 227   | 223   | 235   | 228   | 194   | 227   | 194   | 186   |
| Liquid biofuels                        | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     |
| All other renewable energies           | 220   | 237   | 231   | 242   | 234   | 199   | 232   | 198   | 190   |
| Non-renewable wastes                   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Electricity                            | 634   | 602   | 585   | 579   | 570   | 533   | 525   | 525   | 537   |
| Heat                                   | 57    | 52    | 44    | 40    | 46    | 46    | 50    | 47    | 43    |
| <b>Statistical difference</b>          | -20   | 5     | -1    | 5     | -23   | 4     | 15    | -24   | 12    |
| <b>Final non-energy consumption</b>    | 68    | 57    | 54    | 50    | 62    | 140   | 80    | 50    | 59    |
| <b>Final energy consumption</b>        | 1 903 | 1 846 | 1 815 | 1 797 | 1 838 | 1 848 | 1 859 | 1 833 | 1 922 |
| Industry                               | 634   | 579   | 555   | 518   | 475   | 441   | 388   | 413   | 452   |
| Transport                              | 475   | 453   | 515   | 537   | 596   | 680   | 706   | 705   | 760   |
| Other sectors                          | 794   | 813   | 745   | 742   | 766   | 727   | 765   | 715   | 710   |
| Services                               | 206   | 229   | 202   | 196   | 212   | 213   | 215   | 210   | 212   |
| Households                             | 567   | 559   | 519   | 524   | 531   | 492   | 529   | 484   | 477   |
| <b>2030 indicators</b>                 | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
| Gross inland consumption               | 3 122 | 3 004 | 2 783 | 2 707 | 2 661 | 2 706 | 2 763 | 2 593 | 2 844 |
| Primary energy consumption             | 3 054 | 2 947 | 2 729 | 2 657 | 2 599 | 2 566 | 2 683 | 2 542 | 2 785 |
| Final energy consumption               | 1 907 | 1 854 | 1 825 | 1 810 | 1 852 | 1 864 | 1 880 | 1 857 | 1 950 |

Source: Eurostat (nrg\_bal\_c)

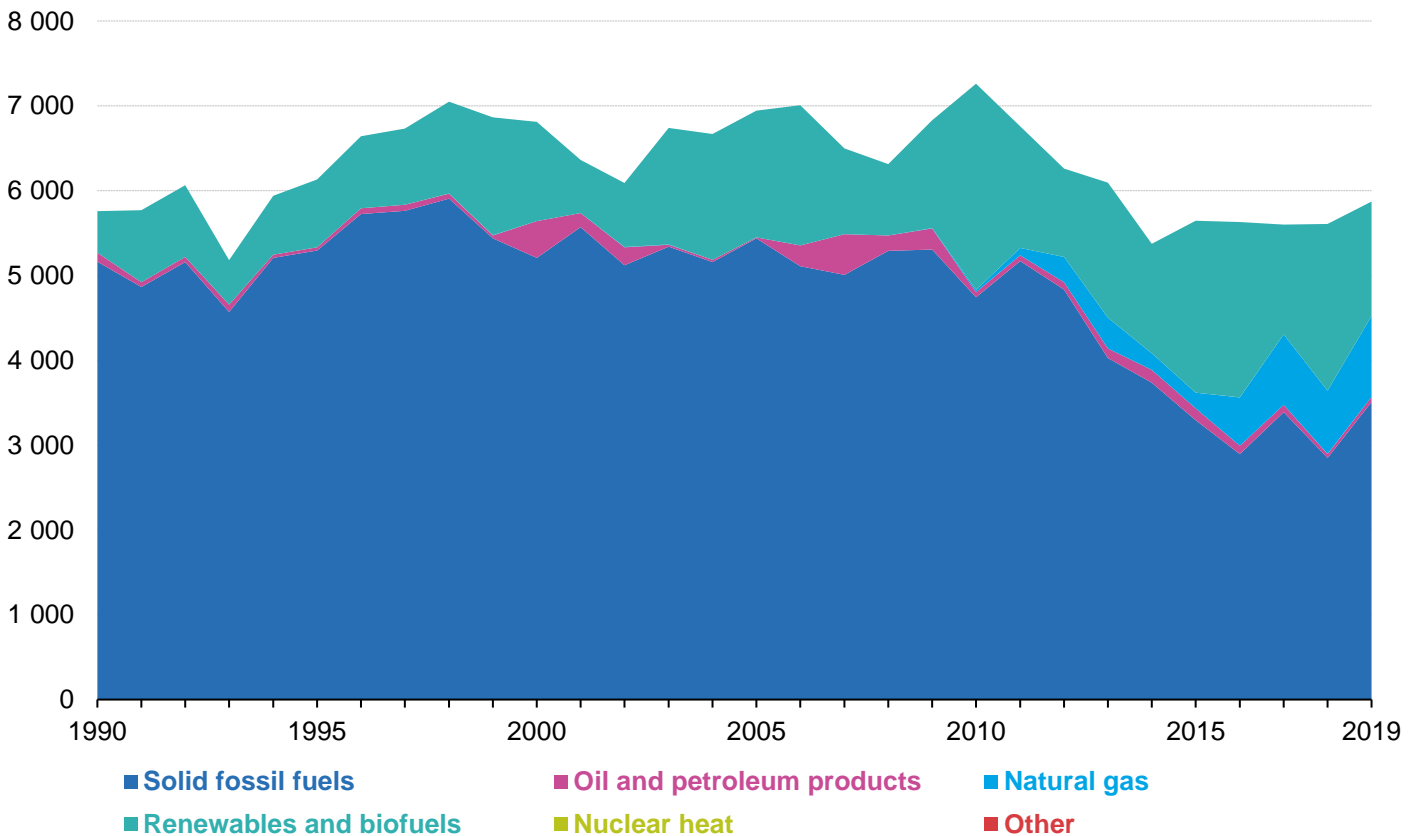
# North Macedonia

## Gross available energy by fuel, ktoe



Source: Eurostat (nrg\_bal\_c)

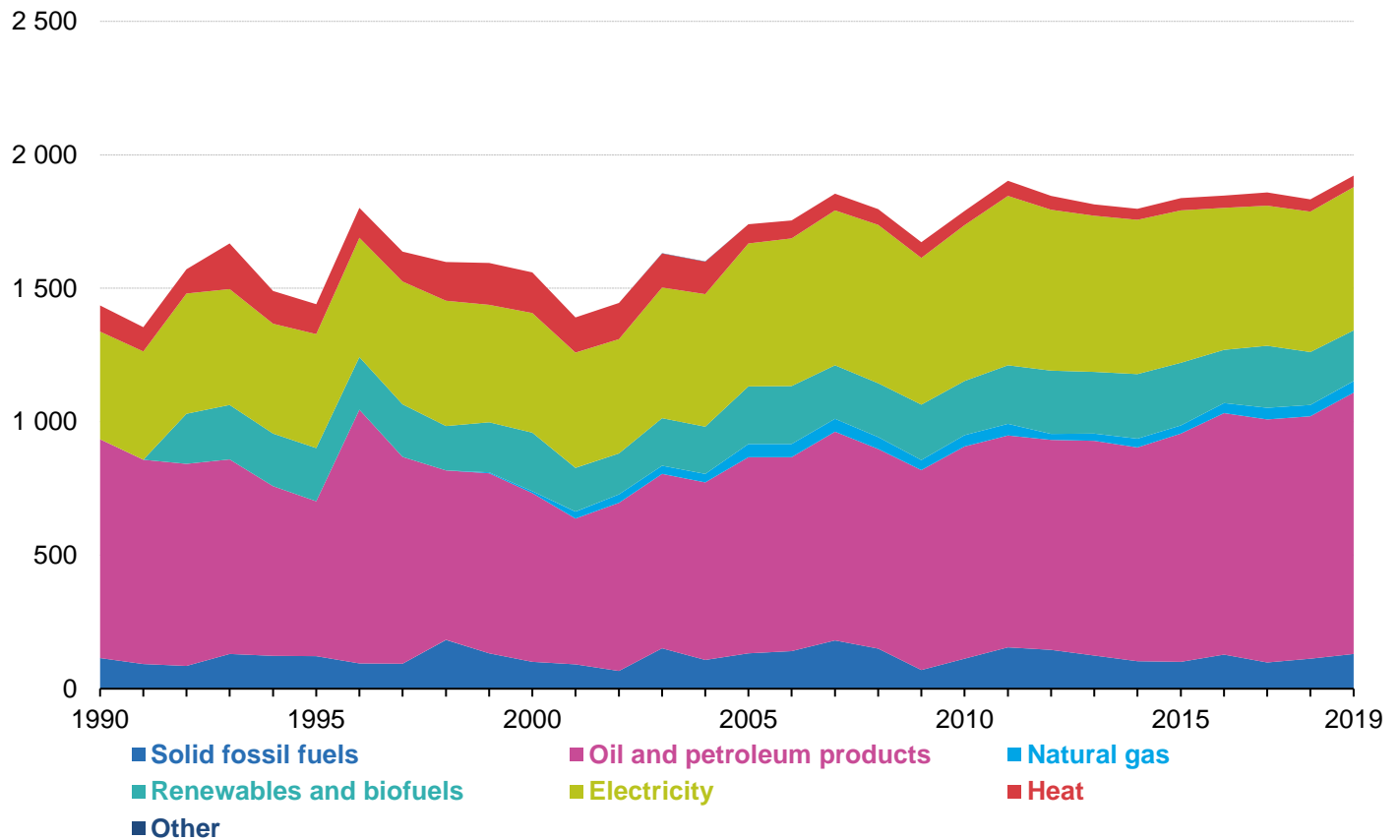
## Gross electricity production by fuel, GWh



Source: Eurostat (nrg\_bal\_c)

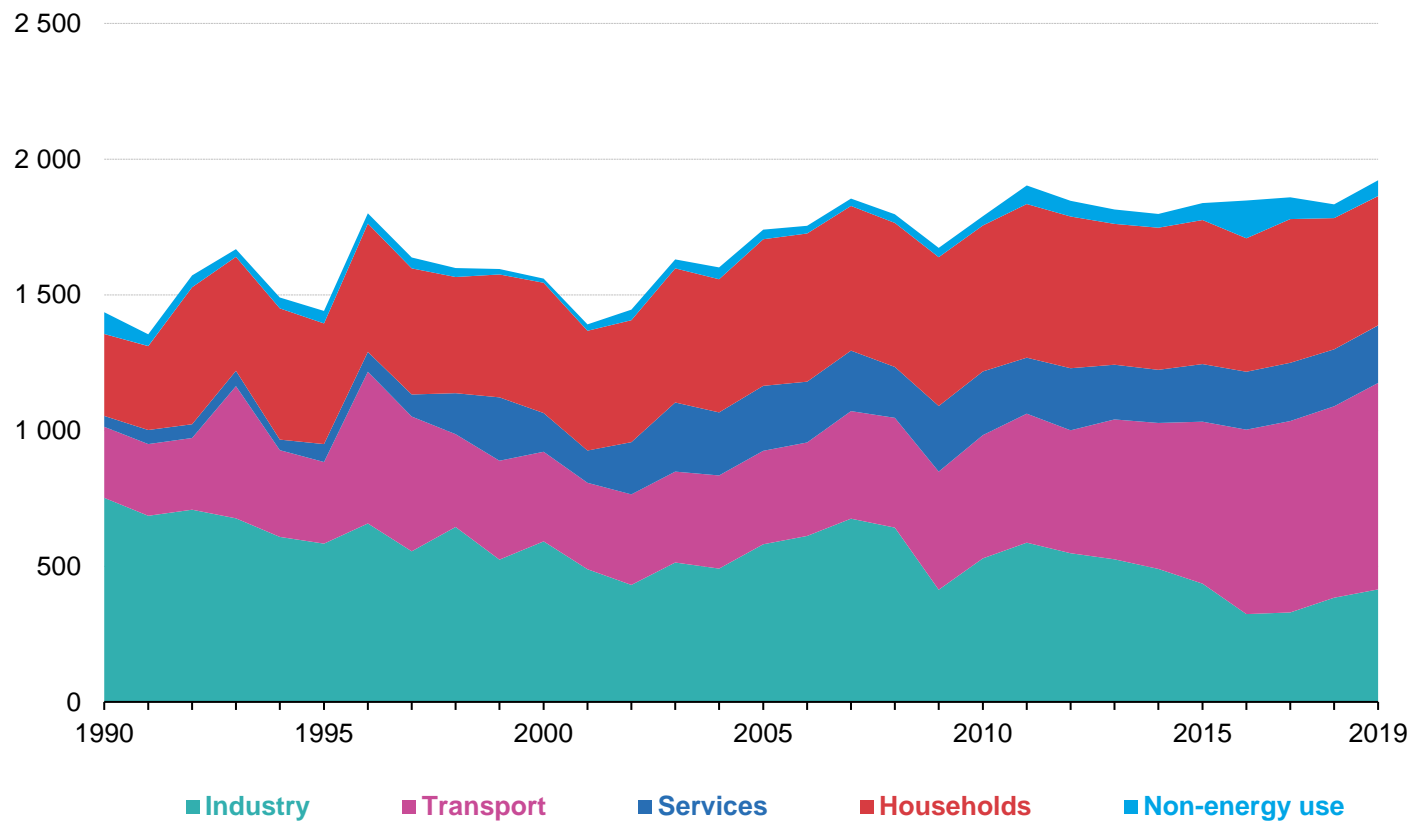
# North Macedonia

## Final energy consumption by fuel, ktoe



Source: Eurostat (nrg\_bal\_c)

## Final consumption by sector, ktoe



Source: Eurostat (nrg\_bal\_c)

## Gross electricity production

North Macedonia

| GWh   | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020P   |
|-------|-------|-------|-------|-------|-------|-------|---------|
| Total | 5 374 | 5 646 | 5 630 | 5 600 | 5 607 | 5 870 | 5 346 P |

Source: Eurostat (nrg\_ind\_pehcf & nrg\_ind\_pehnf)

## Solid fossil fuels (coal), Peat, Oil shale and oil sands

| GWh                     | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020P   |
|-------------------------|-------|-------|-------|-------|-------|-------|---------|
| Anthracite              | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Coking coal             | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Other bituminous coal   | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Sub-bituminous coal     | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Lignite                 | 3 737 | 3 295 | 2 893 | 3 386 | 2 848 | 3 508 | 2 635 P |
| Coke oven coke          | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Patent fuel             | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Brown coal briquettes   | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Coal tar                | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Peat                    | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Peat products           | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Oil shale and oil sands | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Sub-total               | 3 737 | 3 295 | 2 893 | 3 386 | 2 848 | 3 508 | 2 635 P |

Source: Eurostat (nrg\_ind\_pehcf)

## Natural gas and manufactured gases

| GWh                   | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020P   |
|-----------------------|------|------|------|------|------|------|---------|
| Natural gas           | 196  | 183  | 569  | 829  | 746  | 957  | 1 145 P |
| Coke oven gas         | 0    | 0    | 0    | 0    | 0    | 0    | 0 P     |
| Gas works gas         | 0    | 0    | 0    | 0    | 0    | 0    | 0 P     |
| Blast furnace gas     | 0    | 0    | 0    | 0    | 0    | 0    | 0 P     |
| Other recovered gases | 0    | 0    | 0    | 0    | 0    | 0    | 0 P     |
| Sub-total             | 196  | 183  | 569  | 829  | 746  | 957  | 1 145 P |

Source: Eurostat (nrg\_ind\_pehcf)

## Oil and petroleum products

| GWh                       | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020P |
|---------------------------|------|------|------|------|------|------|-------|
| Crude oil                 | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Refinery gas              | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Liquefied petroleum gases | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Naphtha                   | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Kerosene-type jet fuel    | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Other kerosene            | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Gas oil and diesel oil    | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Fuel oil                  | 149  | 139  | 101  | 89   | 47   | 61   | 92 P  |
| Petroleum coke            | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Bitumen                   | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Other oil products        | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Sub-total                 | 149  | 139  | 101  | 89   | 47   | 61   | 92 P  |

Source: Eurostat (nrg\_ind\_pehcf)

## Renewables and biofuels

| GWh                       | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020P   |
|---------------------------|-------|-------|-------|-------|-------|-------|---------|
| Hydro                     | 1 207 | 1 865 | 1 897 | 1 110 | 1 791 | 1 164 | 1 277 P |
| Geothermal                | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Wind                      | 71    | 121   | 109   | 110   | 97    | 102   | 117 P   |
| Solar thermal             | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Solar photovoltaic        | 14    | 23    | 24    | 24    | 23    | 23    | 24 P    |
| Tide, wave, ocean         | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Solid biofuels            | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Liquid biofuels           | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Biogases                  | 0     | 20    | 36    | 52    | 54    | 55    | 57 P    |
| Renewable municipal waste | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Sub-total                 | 1 292 | 2 029 | 2 067 | 1 296 | 1 966 | 1 344 | 1 475 P |

Source: Eurostat (nrg\_ind\_pehcf & nrg\_ind\_pehnf)

## Non-renewable wastes

| GWh                              | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020P |
|----------------------------------|------|------|------|------|------|------|-------|
| Industrial waste (non-renewable) | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Non-renewable municipal waste    | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Sub-total                        | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |

Source: Eurostat (nrg\_ind\_pehcf)

## Other sources

| GWh                                 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020P |
|-------------------------------------|------|------|------|------|------|------|-------|
| Nuclear                             | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Heat from chemical sources          | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Other fuels not elsewhere specified | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Sub-total                           | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |

Source: Eurostat (nrg\_ind\_pehnf)

## Solid fossil fuels (coal), Peat, Oil shale and oil sands - Inland consumption

| kt                      | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020P   |
|-------------------------|-------|-------|-------|-------|-------|-------|---------|
| Anthracite              | 2     | 1     | 1     | 3     | 3     | 1     | 1 P     |
| Coking coal             | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Other bituminous coal   | 5     | 11    | 28    | 31    | 87    | 83    | 7 P     |
| Sub-bituminous coal     | 145   | 144   | 187   | 123   | 83    | 122   | 104 P   |
| Lignite                 | 6 565 | 5 899 | 5 227 | 5 249 | 4 738 | 5 778 | 5 098 P |
| Coke oven coke          | 2     | 1     | 2     | 1     | 0     | 1     | 1 P     |
| Patent fuel             | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Brown coal briquettes   | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Coal tar                | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Peat                    | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Peat products           | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Oil shale and oil sands | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |

Source: Eurostat (nrg\_cb\_sff)

## Natural gas and manufactured gases - Inland consumption

| TJ (GCV)              | 2014  | 2015  | 2016  | 2017   | 2018  | 2019   | 2020P    |
|-----------------------|-------|-------|-------|--------|-------|--------|----------|
| Natural gas           | 5 171 | 5 209 | 8 190 | 10 533 | 9 715 | 11 357 | 12 975 P |
| Coke oven gas         | 0     | 0     | 0     | 0      | 0     | 0      | 0 P      |
| Gas works gas         | 0     | 0     | 0     | 0      | 0     | 0      | 0 P      |
| Blast furnace gas     | 0     | 0     | 0     | 0      | 0     | 0      | 0 P      |
| Other recovered gases | 0     | 0     | 0     | 0      | 0     | 0      | 0 P      |

Source: Eurostat (nrg\_cb\_gas)

## Crude oil, NGL, refinery feedstocks, additives and oxygenates and other hydrocarbons

| kt              | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020P |
|-----------------|------|------|------|------|------|------|-------|
| Imports         | 0    | 0    | 0    | 0    | 0    | 0    | 0 P   |
| Refinery intake | 1    | 0    | 0    | 0    | 0    | 0    | 0 P   |

Source: Eurostat (nrg\_cb\_oil)

## Oil products

| kt                     | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020P   |
|------------------------|-------|-------|-------|-------|-------|-------|---------|
| Imports                | 1 099 | 1 142 | 1 213 | 1 117 | 1 096 | 1 251 | 1 192 P |
| Export                 | 180   | 173   | 110   | 99    | 124   | 159   | 144 P   |
| Total refinery output  | 1     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Gas oil and diesel oil | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Motor gasoline         | 1     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Fuel oil               | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Naphtha                | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| Kerosene-type jet fuel | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |
| All other oil products | 0     | 0     | 0     | 0     | 0     | 0     | 0 P     |

Source: Eurostat (nrg\_cb\_oil)

## Biofuels - Inland consumption

|                             | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020P |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| Primary solid biofuels [TJ] | 9 842 | 9 566 | 8 128 | 9 493 | 8 109 | 7 773 | : O   |
| Charcoal [kt]               | 0     | 0     | 0     | 0     | 0     | 0     | : O   |
| Biogases [TJ]               | 0     | 288   | 519   | 742   | 778   | 793   | : O   |
| Pure biogasoline [kt]       | 0     | 0     | 0     | 0     | 0     | 0     | : O   |
| Pure biodiesels [kt]        | 0     | 0     | 0     | 0     | 0     | 0     | : O   |
| Other liquid biofuels [kt]  | 0     | 0     | 0     | 0     | 0     | 0     | : O   |

Source: Eurostat (nrg\_cb\_rw)

## Wastes - Inland consumption

| TJ                               | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020P |
|----------------------------------|------|------|------|------|------|------|-------|
| Renewable municipal waste        | 0    | 0    | 0    | 0    | 0    | 0    | : O   |
| Non-renewable municipal waste    | 0    | 0    | 0    | 0    | 0    | 0    | : O   |
| Industrial waste (non-renewable) | 0    | 0    | 0    | 0    | 0    | 0    | : O   |

Source: Eurostat (nrg\_cb\_rw)

## Non-combustible renewables - Inland consumption

| TJ                        | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020P |
|---------------------------|------|------|------|------|------|------|-------|
| Geothermal                | 286  | 253  | 237  | 234  | 226  | 203  | : O   |
| Solar thermal             | 0    | 0    | 0    | 0    | 0    | 0    | : O   |
| Ambinet heat (heat pumps) | 0    | 0    | 0    | 0    | 0    | 0    | : O   |

Source: Eurostat (nrg\_cb\_rw)