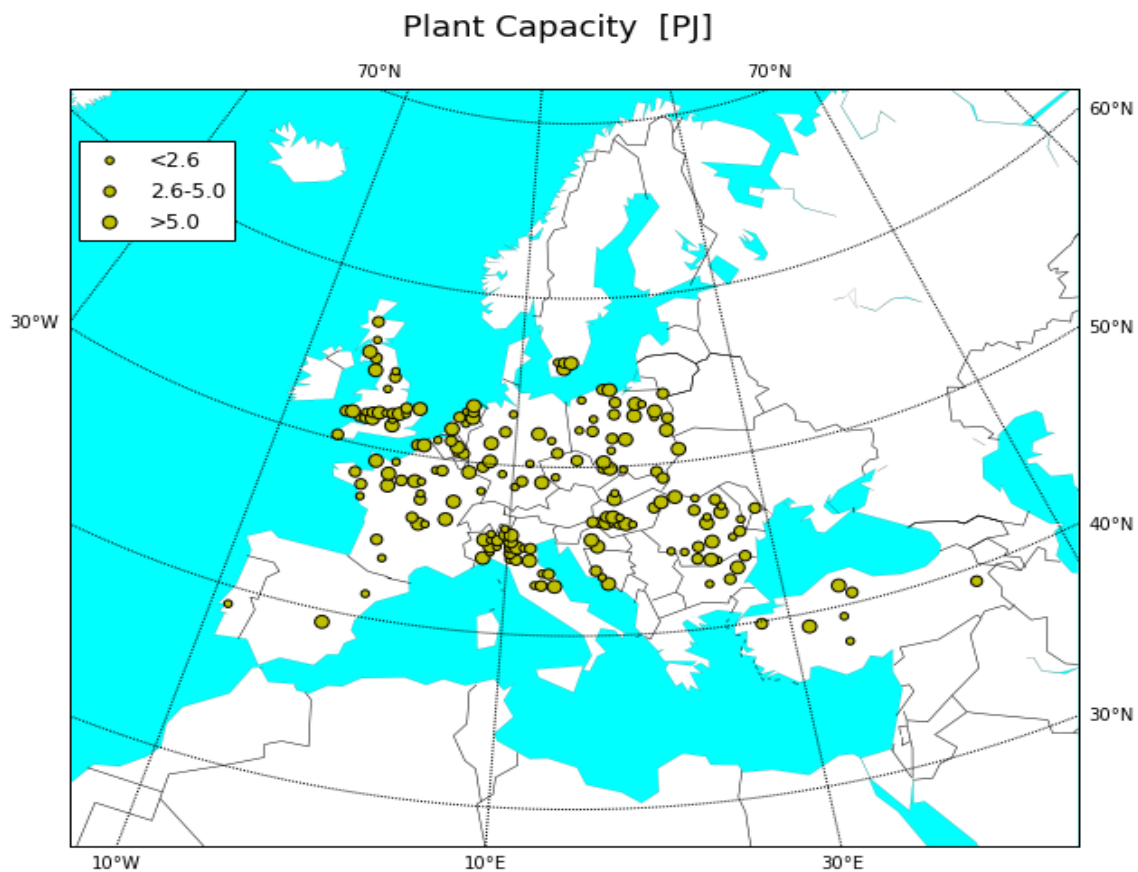


Scenario #20

Feedstock: crops
Final product: heat and power

Carbon cost: 150 EUR/tCO₂
Fossil fuel cost: 1.5 EUR/GJ



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| Total use of crops (Pj/year) | | | | | |
|------------------------------|-------------------|------------------|----------------|-------------------|-----------|
| Country | Perennials grassy | Perennials woody | Straw residues | Prunings residues | Grassland |
| AL | 0 | 0 | 0 | 0 | 0 |
| AT | 0 | 0.2 | 0 | 0 | 0 |
| BE | 0 | 0.12 | 0 | 0 | 0 |
| BA | 0 | 0 | 0 | 0 | 0 |
| BG | 2.32 | 6.06 | 0 | 0.03 | 0 |
| HR | 0.57 | 0.17 | 0 | 0.08 | 0 |
| CY | 0 | 0 | 0 | 0 | 0 |
| CZ | 0 | 3.02 | 0 | 0.1 | 0.21 |
| DK | 0 | 0 | 0 | 0 | 0 |
| EE | 0 | 0 | 0 | 0 | 0 |
| FI | 0 | 0 | 0 | 0 | 0 |
| FR | 3.97 | 6.79 | 0 | 0.01 | 2.35 |
| DE | 2.05 | 1.33 | 0 | 0.64 | 0 |
| GR | 0 | 0 | 0 | 0 | 0 |
| HU | 2.63 | 7.16 | 0 | 0.03 | 0 |
| IE | 0 | 0 | 0 | 0 | 0 |
| IT | 6.65 | 8.77 | 0 | 0.86 | 0 |
| KS | 0 | 0 | 0 | 0 | 0 |
| LV | 0 | 0 | 0 | 0 | 0 |
| LT | 0 | 0 | 0 | 0 | 0 |
| LU | 0 | 0 | 0 | 0 | 0 |
| MT | 0 | 0 | 0 | 0 | 0 |
| MD | 0.29 | 1.21 | 0 | 0 | 0.06 |
| ME | 0 | 0 | 0 | 0 | 0 |
| NL | 0 | 0.05 | 0 | 0 | 0 |
| PL | 6.29 | 27.65 | 0 | 1.1 | 5.83 |
| PT | 0.29 | 4.73 | 0 | 0 | 0 |
| RS | 0 | 0 | 0 | 0 | 0 |
| RO | 4.25 | 55.93 | 0 | 0 | 0.66 |
| SK | 0.72 | 2.08 | 0 | 0.01 | 0.05 |
| SI | 0 | 0 | 0 | 0 | 0 |
| ES | 0 | 13.88 | 0 | 0 | 2.49 |
| SE | 0.41 | 0.2 | 0 | 0.01 | 2.16 |
| MK | 0 | 0 | 0 | 0 | 0 |
| TR | 1.43 | 17.52 | 0 | 0.05 | 0 |
| GB | 0.18 | 0.99 | 0 | 0.01 | 17.14 |
| UA | 0 | 0 | 0 | 0 | 0 |

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| Export of crops (Pj/year) | | | | | |
|---------------------------|-------------------|------------------|----------------|-------------------|-----------|
| Country | Perennials grassy | Perennials woody | Straw residues | Prunings residues | Grassland |
| AL | 0 | 0 | 0 | 0 | 0 |
| AT | 0 | 0.2 | 0 | 0 | 0 |
| BE | 0 | 0 | 0 | 0 | 0 |
| BA | 0 | 0 | 0 | 0 | 0 |
| BG | 0 | 2.94 | 0 | 0 | 0 |
| HR | 0 | 0.08 | 0 | 0 | 0 |
| CY | 0 | 0 | 0 | 0 | 0 |
| CZ | 0 | 1.59 | 0 | 0 | 0 |
| DK | 0 | 0 | 0 | 0 | 0 |
| EE | 0 | 0 | 0 | 0 | 0 |
| FI | 0 | 0 | 0 | 0 | 0 |
| FR | 0 | 3.91 | 0 | 0 | 1.64 |
| DE | 0 | 0.3 | 0 | 0 | 0 |
| GR | 0 | 0 | 0 | 0 | 0 |
| HU | 0 | 0 | 0 | 0 | 0 |
| IE | 0 | 0 | 0 | 0 | 0 |
| IT | 0 | 2.94 | 0 | 0 | 0 |
| KS | 0 | 0 | 0 | 0 | 0 |
| LV | 0 | 0 | 0 | 0 | 0 |
| LT | 0 | 0 | 0 | 0 | 0 |
| LU | 0 | 0 | 0 | 0 | 0 |
| MT | 0 | 0 | 0 | 0 | 0 |
| MD | 0 | 1.21 | 0 | 0 | 0.06 |
| ME | 0 | 0 | 0 | 0 | 0 |
| NL | 0 | 0.01 | 0 | 0 | 0 |
| PL | 0 | 13.99 | 0 | 0 | 5.11 |
| PT | 0 | 3.13 | 0 | 0 | 0 |
| RS | 0 | 0 | 0 | 0 | 0 |
| RO | 0 | 42.36 | 0 | 0 | 0.66 |
| SK | 0 | 0.79 | 0 | 0 | 0 |
| SI | 0 | 0 | 0 | 0 | 0 |
| ES | 0 | 12.58 | 0 | 0 | 2.35 |
| SE | 0 | 0.05 | 0 | 0 | 0 |
| MK | 0 | 0 | 0 | 0 | 0 |
| TR | 0 | 11.09 | 0 | 0 | 0 |
| GB | 0 | 0.74 | 0 | 0 | 0 |
| UA | 0 | 0 | 0 | 0 | 0 |

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| Import of crops (Pj/year) | | | | | |
|---------------------------|-------------------|------------------|----------------|-------------------|-----------|
| Country | Perennials grassy | Perennials woody | Straw residues | Prunings residues | Grassland |
| AL | 0 | 0 | 0 | 0 | 0 |
| AT | 0 | 0 | 0 | 0 | 0 |
| BE | 0 | 8.16 | 0 | 0 | 3.6 |
| BA | 0 | 0 | 0 | 0 | 0 |
| BG | 0 | 6.93 | 0 | 0 | 0 |
| HR | 0 | 0.39 | 0 | 0 | 0.72 |
| CY | 0 | 0 | 0 | 0 | 0 |
| CZ | 0 | 28.71 | 0 | 0 | 2.67 |
| DK | 0 | 0 | 0 | 0 | 0 |
| EE | 0 | 0 | 0 | 0 | 0 |
| FI | 0 | 0 | 0 | 0 | 0 |
| FR | 0 | 0 | 0 | 0 | 0 |
| DE | 0 | 0 | 0 | 0 | 0 |
| GR | 0 | 0 | 0 | 0 | 0 |
| HU | 0 | 0 | 0 | 0 | 0 |
| IE | 0 | 0 | 0 | 0 | 0 |
| IT | 0 | 0 | 0 | 0 | 0 |
| KS | 0 | 0 | 0 | 0 | 0 |
| LV | 0 | 0 | 0 | 0 | 0 |
| LT | 0 | 0 | 0 | 0 | 0 |
| LU | 0 | 0 | 0 | 0 | 0 |
| MT | 0 | 0 | 0 | 0 | 0 |
| MD | 0 | 0 | 0 | 0 | 0 |
| ME | 0 | 0 | 0 | 0 | 0 |
| NL | 0 | 44.96 | 0 | 0 | 1.44 |
| PL | 0 | 0 | 0 | 0 | 0 |
| PT | 0 | 3.44 | 0 | 0 | 0 |
| RS | 0 | 0 | 0 | 0 | 0 |
| RO | 0 | 0 | 0 | 0 | 0 |
| SK | 0 | 5.31 | 0 | 0 | 1.39 |
| SI | 0 | 0 | 0 | 0 | 0 |
| ES | 0 | 0 | 0 | 0 | 0 |
| SE | 0 | 0 | 0 | 0 | 0 |
| MK | 0 | 0 | 0 | 0 | 0 |
| TR | 0 | 0 | 0 | 0 | 0 |
| GB | 0 | 0 | 0 | 0 | 0 |
| UA | 0 | 0 | 0 | 0 | 0 |

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| Country | Heat (PJ) | Power (PJ) | Emission avoided (MtonCO ₂) |
|---------|-----------|------------|---|
| AL | 0 | 0 | 0 |
| AT | 0 | 0 | 0 |
| BE | 5.688 | 13.23 | 0.95 |
| BA | 0 | 0 | 0 |
| BG | 6.1512 | 12.1361 | 1.66 |
| HR | 1.1862 | 1.1642 | 0.19 |
| CY | 0 | 0 | 0 |
| CZ | 15.048 | 39.312 | 4.38 |
| DK | 0 | 0 | 0 |
| EE | 0 | 0 | 0 |
| FI | 0 | 0 | 0 |
| FR | 6.192 | 0.756 | 0.39 |
| DE | 3.159 | 0 | 0.58 |
| GR | 0 | 0 | 0 |
| HU | 6.0264 | 6.9401 | 0.91 |
| IE | 0 | 0 | 0 |
| IT | 9.072 | 6.804 | 1.48 |
| KS | 0 | 0 | 0 |
| LV | 0 | 0 | 0 |
| LT | 0 | 0 | 0 |
| LU | 0 | 0 | 0 |
| MT | 0 | 0 | 0 |
| MD | 0.243 | 0 | 0.03 |
| ME | 0 | 0 | 0 |
| NL | 21.456 | 54.054 | 4.4 |
| PL | 12.834 | 17.01 | 3.56 |
| PT | 2.511 | 6.048 | 0.43 |
| RS | 0 | 0 | 0 |
| RO | 10.611 | 13.608 | 1.61 |
| SK | 4.689 | 8.316 | 0.91 |
| SI | 0 | 0 | 0 |
| ES | 0.72 | 1.512 | 0.15 |
| SE | 1.566 | 2.268 | 0.14 |
| MK | 0 | 0 | 0 |
| TR | 4.455 | 6.804 | 1.07 |
| GB | 8.883 | 18.144 | 1.97 |
| UA | 0 | 0 | 0 |

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