

Table 5.7c

Estimation of total contribution (final energy consumption (5) expected from each renewable energy technology in Romania to meet the binding 2020 targets and the indicative interim trajectory for the share of energy from renewable sources in heating and cooling 2010-2020

| | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Geothermal (excluding low temperature geothermal heat in heat pump application) | 17 | 25 | 30 | 35 | 41 | 47 | 52 | 57 | 63 | 68 | 74 | 80 |
| Solar | 0 | 0 | 1 | 3 | 6 | 10 | 14 | 19 | 25 | 35 | 50 | 70 |
| Biomass : | 3166 | 2794 | 2802 | 2961 | 2920 | 2865 | 2931 | 2977 | 3126 | 3279 | 3573 | 3876 |
| solif | 0 | 2793 | 2801 | 2957 | 2914 | 2856 | 2919 | 2960 | 3106 | 3255 | 3546 | 3845 |
| biogas | 0 | 1 | 1 | 3 | 5 | 7 | 10 | 14 | 16 | 18 | 19 | 20 |
| bioliquids | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 6 | 8 | 11 |
| Renewable energy from heat pumps: | 0 | 0 | 1 | 1 | 2 | 3 | 3 | 5 | 6 | 8 | 10 | 12 |
| — of which aerothermal | 0 | 0 | 0 | 0 | 0,5 | 1 | 1 | 1,5 | 2 | 2 | 3 | 4 |
| — of which geothermal | 0 | 0 | 1 | 1 | 1,5 | 2 | 2 | 3,5 | 4 | 6 | 7 | 8 |
| — of which hydrothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 3183 | 2819 | 2834 | 3000 | 2969 | 2925 | 3000 | 3058 | 3220 | 3390 | 3707 | 4038 |
| Of which DH | 17 | 100 | 121 | 188 | 246 | 304 | 362 | 471 | 579 | 736 | 993 | 1300 |
| Of which biomass in households | 3166 | 2720 | 2712 | 2811 | 2720 | 2615 | 2631 | 2577 | 2626 | 2629 | 2673 | 2676 |

Note: Table 5.7c corresponds to table 11 of Decision 2009/548/CE.

Table 5.7d: Estimation of total contribution expected from each renewable energy technology in Romania to meet the binding 2020 targets and the indicative interim trajectory for the share of energy from renewable sources in the transport sector 2010-2020 (6)

| | ktoe | | | | | | | | | | | |
|--|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| Bioethanol/bio-ETBE | - | 75 | 85 | 94 | 103 | 112 | 121 | 129 | 137 | 146 | 156 | 163 |
| Of which biofuels | - | - | - | - | - | - | - | - | - | 25 | 30 | 35 |
| Of which imported | - | - | - | - | - | - | - | - | - | - | - | - |
| Biodiesel | - | 149 | 169 | 189 | 206 | 224 | 242 | 257 | 274 | 292 | 312 | 326 |
| Of which biofuels | - | - | - | - | - | - | - | - | - | 50 | 60 | 70 |
| Of which imported | - | - | - | - | - | - | - | - | - | - | - | - |
| Hydrogen from renewables | - | - | - | - | - | - | - | - | 1,5 | 2,0 | 2,2 | 2,4 |
| Renewable electricity | 40,9 | 36,1 | 36,4 | 35,6 | 38,5 | 41,8 | 45,4 | 49,1 | 51,1 | 51,8 | 51,8 | 52,7 |
| Of which road transport | 11,1 | 10 | 10,3 | 10,3 | 11 | 11,9 | 12,9 | 13,5 | 14 | 14,1 | 14 | 14,1 |
| Of which non-road transport | 29,8 | 26,1 | 26,1 | 25,2 | 27,5 | 30 | 32,6 | 35,6 | 37 | 37,6 | 37,8 | 38,5 |
| Others (as biogas, vegetables oils etc.) | - | - | - | - | - | - | - | - | 3,5 | 4,5 | 5,5 | 6,5 |
| Of which biofuels | - | - | - | - | - | - | - | - | 2,5 | 3,5 | 4,5 | 5,5 |
| Total | 81,8 | 296,2 | 326,8 | 354,1 | 386 | 419,7 | 453,9 | 484,5 | 520,6 | 626,5 | 673,8 | 713,7 |

Note: Table 5.7d corresponds to table 12 of Decision 2009/548/CE.