

Παράρτημα Ι

Πολλαπλά Γραμμικά Μοντέλα

Μεθάνιο

$$Y_{\text{Austria}} = 34360 + 0.00051 * \text{Pig} - 0.003 * \text{Sheep} - 0.0036 * \text{TPopulation} - 0.183 * \text{PLignite} + 3.519 * \text{DLosses}$$

$$Y_{\text{Belgium}} = 10000 + 0.00083 * \text{Pig} - 0.00648 * \text{Sheep} + 0.697 * \text{Waste} - 0.00075 * \text{UPopulation}$$

$$Y_{\text{Bulgaria}} = 3639 + -0.616 * \text{Waste} - 0.0546 * \text{GDP} + 0.084 * \text{CLignite} + 0.0134 * \text{CNaturalGas}$$

$$Y_{\text{Croatia}} = 399.7 + 0.0017 * \text{Cattle} + 0.0133 * \text{CNaturalGas} + 0.0112 * \text{PNaturalGas}$$

$$Y_{\text{Cyprus}} = -559.8 + 0.4846 * \text{Waste} + 0.0029 * \text{UrbanPopulation} - 0.0336 * \text{GDP}$$

$$Y_{\text{CzechRepublic}} = -37000 - 0.0096 * \text{TPopulation} + 0.0189 * \text{UPopulation} + 0.226 * \text{PHardCoal}$$

$$Y_{\text{Denmark}} = 11630 + 0.00086 * \text{Cattle} + 0.000068 * \text{Pig} - 0.0011 * \text{Sheep} - 0.0005 * \text{UrbanPopulation} + 0.002 * \text{CNaturalGas} - 50.65 * \text{DistributionLosses}$$

$$Y_{\text{Estonia}} = 334.9 - 0.00041 * \text{Pig} + 0.00071 * \text{UrbanPopulation} + 0.005 * \text{CNaturalGas}$$

$$Y_{\text{Finland}} = 2972 + 0.0061 * \text{Cattle} - 0.00098 * \text{UrbanPopulation}$$

$$Y_{\text{France}} = 186200 + 0.00083 * \text{Cattle} - 0.0031 * \text{Sheep} - 0.00256 * \text{UrbanPopulation} + 0.00328 * \text{CNaturalGas}$$

$$Y_{\text{Germany}} = 501000 + 0.0068 * \text{Cattle} - 0.002 * \text{Pig} - 0.0082 * \text{UrbanPopulation} + 0.0256 * \text{PNaturalGas}$$

$$Y_{\text{Greece}} = 25960 - 0.000347 * \text{Sheep} - 0.00134 * \text{UrbanPopulation} - 0.0244 * \text{PLignite}$$

$$Y_{\text{Hungary}} = 18430 + 0.00406 * \text{Cattle} - 0.00198 * \text{UrbanPopulation} + 0.00127 * \text{CNaturalGas}$$

$$Y_{\text{Ireland}} = 22970 - 0.00243 * \text{TotalPopulation}$$

$$Y_{\text{Italy}} = 164800 + 0.00033 * \text{Sheep} - 0.00328 * \text{UrbanPopulation} + 0.00092 * \text{CNaturalGas}$$

$$Y_{\text{Latvia}} = -391.2 + 0.00338 * \text{Sheep} + 0.001085 * \text{UrbanPopulation} + 0.00448 * \text{CNaturalGas}$$

$$Y_{\text{Lithuania}} = -1731 - 0.0016 * \text{Cattle} + 0.00041 * \text{Pig} + 0.0073 * \text{Sheep} + 0.731 * \text{Waste} + 0.0013 * \text{TotalPopulation} + 3.431 * \text{PLignite} + 0.0037 * \text{CNaturalGas}$$

$$Y_{\text{Luxembourg}} = 585.7 + 0.00032 * \text{Cattle} - 1.194 * \text{Waste} - 0.000298 * \text{UrbanPopulation}$$

$$Y_{\text{Malta}} = 54.43 + 0.397 * \text{Waste}$$

$$Y_{\text{Netherlands}} = 16490 + 0.00537 * \text{Cattle} - 0.00152 * \text{UrbanPopulation}$$

$$Y_{\text{Poland}} = 34190 + 0.000096 * \text{Pig} + 0.0708 * \text{PHardCoal}$$

$$Y_{\text{Portugal}} = -14250 + 0.00062 * \text{Sheep} + 0.00236 * \text{TotalPopulation}$$

$$Y_{\text{Romania}} = 11850 + 0.00012 * \text{Sheep} + 0.847 * \text{Waste} - 0.0185 * \text{GDP} + 0.0627 * \text{PLignite} \\ + 0.01334 * \text{CNaturalGas}$$

$$Y_{\text{Slovakia}} = 5952 - 0.00468 * \text{Sheep} + 0.02687 * \text{PNaturalGas} + 0.0488 * \text{DistributionLosses}$$

$$Y_{\text{Slovenia}} = 1371 + 0.00012 * \text{Pig} + 0.00072 * \text{Sheep}$$

$$Y_{\text{Spain}} = 14090 + 0.00245 * \text{Cattle} + 0.00021 * \text{Pig} - 0.000092 * \text{Sheep}$$

$$Y_{\text{Sweden}} = -2249 + 0.00575 * \text{Cattle} - 0.00256 * \text{Sheep}$$

$$Y_{\text{UK}} = -28630 + 0.01225 * \text{Pig} + 0.01069 * \text{CNaturalGas}$$

Διοξείδιο του Άνθρακα

$$Y_{\text{Austria}} = -2758 + 0.0864 * \text{CNaturalGas} + 3.454 * \text{CHardCoal} + 1.455 * \text{CLignite} \\ + 2.253 * \text{CPetroleumProducts}$$

$$Y_{\text{Belgium}} = 52350 + 1.986 * \text{CHardCoal} + 1.574 * \text{CCrudeOil}$$

$$Y_{\text{Bulgaria}} = 14830 + 3.452 * \text{CHardCoal} + 0.7697 * \text{CLignite}$$

$$Y_{\text{Croatia}} = 4411.186 + 4.1503 * \text{CHardCoal} + 3.2515 * \text{CPetroleumProducts}$$

$$Y_{\text{Cyprus}} = 1743.52 + 9.688 * \text{CHardCoal} + 2.249 * \text{CPetroleumProducts} - 0.467 * \text{CCrudeOil}$$

$$Y_{\text{CzechRepublic}} = 6496 + 0.0705 * \text{CNaturalGas} + 1.601 * \text{CHardCoal} + 1.215 * \text{CLignite} \\ + 3.441 * \text{CPetroleumProducts} - 1.218 * \text{CCrudeOil}$$

$$Y_{\text{Denmark}} = -232 + 0.0889 * \text{CNaturalGas} + 2.422 * \text{CHardCoal} + 2.308 * \text{CPetroleumProducts} \\ + 0.2805 * \text{CrudeOil}$$

$$Y_{\text{Estonia}} = 5472.96 + 10.121 * \text{CPetroleumProducts}$$

$$Y_{\text{Finland}} = 23100 + 0.0976 * \text{CNaturalGas} + 3.507 * \text{CHardCoal}$$

$$Y_{\text{France}} = 53350 + 0.031 * \text{CNaturalGas} + 4.094 * \text{CHardCoal} + 2.478 * \text{CPetroleumProducts}$$

$$Y_{\text{Germany}} = 90960 + 0.0307 * \text{CNaturalGas} + 2.602 * \text{CHardCoal} + 1.048 * \text{C. Lignite} \\ + 2.021 * \text{CPetroleumProducts} - 0.5029 * \text{CCrudeOil}$$

$$Y_{\text{Greece}} = 11430 + 0.044 * \text{CNaturalGas} + 0.303 * \text{CLignite} + 4.175 * \text{CPetroleumProducts}$$

$$Y_{\text{Hungary}} = -4988 + 0.05671 * \text{CNaturalGas} + 2.043 * \text{CHardCoal} + 1.351 * \text{CLignite} \\ + 2.655 * \text{CPetroleumProducts}$$

$$Y_{\text{Ireland}} = 1839 + 0.041 * CNaturalGas + 3.714 * CHardCoal + 3.281 * CPetroleumProducts$$

$$Y_{\text{Italy}} = 20719.3857 + 3.2407 * CHardCoal - 87.4905 * CLignite + 2.2104 * CPetroleumProducts + 1.9877 * CCrudeOil$$

$$Y_{\text{Latvia}} = 2579 + 0.0267 * CNaturalGas + 5.51 * CHardCoal + 2.078 * CPetroleumProducts$$

$$Y_{\text{Lithuania}} = 716.22 + 0.0544 * CNaturalGas + 3.16 * CHardCoal + 2.89 * CPetroleumProducts - 0.114 * CCrudeOil$$

$$Y_{\text{Luxembourg}} = -228.5 + 0.0593 * CNaturalGas + 3.902 * CHardCoal + 2.895 * CPetroleumProducts$$

$$Y_{\text{Malta}} = 728.15 + 2.022 * CPetroleumProducts$$

$$Y_{\text{Netherlands}} = -3269 + 0.058 * CNaturalGas + 2.753 * CHardCoal + 0.983 * CPetroleumProducts + 0.423 * CCrudeOil$$

$$Y_{\text{Poland}} = -13760 + 2.251 * CHardCoal + 1.25 * CLignite + 3.799 * CPetroleumProducts$$

$$Y_{\text{Portugal}} = -4121 + 0.057 * CNaturalGas + 2.913 * CHardCoal + 3.086 * CPetroleumProducts$$

$$Y_{\text{Romania}} = -12650 + 0.8746 * CLignite + 7.695 * CPetroleumProducts$$

$$Y_{\text{Slovakia}} = 14140 + 0.0957 * CNaturalGas + 0.5112 * CHardCoal + 0.7608 * CLignite$$

$$Y_{\text{Slovenia}} = 6736.2479 + 4.7895 * CHardCoal + 2.6859 * CPetroleumProducts$$

$$Y_{\text{Spain}} = 44600 + 0.07607 * CNaturalGas + 1.973 * CHardCoal + 3.17 * CLignite + 2.56 * CPetroleumProducts - 0.845 * CCrudeOil$$

$$Y_{\text{Sweden}} = 5300.665 + 4.787 * CHardCoal + 2.271 * CPetroleumProducts$$

$$Y_{\text{UK}} = -8018 + 0.0721 * CNaturalGas + 3.045 * CHardCoal + 1.377 * CCrudeOil$$

Υποξείδιο του Αζώτου

$$Y_{\text{Austria}} = 2328 + 0.00156 * Pig - 0.0064 * Sheep + 0.017 * Goat - 0.000065 * CropProduction - 0.00485 * CNaturalGas + 0.18 * CCrudeOil$$

$$Y_{\text{Belgium}} = 4826 - 0.0733 * Goat + 0.00021 * CropProduction + 0.415 * CHardCoal$$

$$Y_{\text{Bulgaria}} = 2238 + 0.0061 * Cattle + 0.00072 * Sheep - 0.00179 * Goat + 0.0815 * CropProduction - 0.0547 * CLignite + 0.0196 * CNaturalGas - 0.514 * CPetroleumProducts$$

$$Y_{\text{Croatia}} = 1432 + 0.0036 * Goat + 0.0165 * CNaturalGas$$

$$Y_{\text{Cyprus}} = 323.1 + 0.00038 * Sheep + 0.00039 * Goat + 0.0001 * CropProduction + 0.0505 * CCrudeOil$$

$$Y_{\text{CzechRepublic}} = 6478 - 0.00645 * Sheep + 0.00012 * CropProduction + 0.1667 * CHardCoal - 0.00529 * CNaturalGas + 0.155 * CPetroleumProducts$$

$$Y_{\text{Denmark}} = 2275 + 0.0046 * \text{Cattle} - 1.5 * \text{GVAChemicals} - 0.19 * \text{CCrudeOil}$$

$$Y_{\text{Estonia}} = 692.9 + 0.0011 * \text{Cattle} - 0.0006 * \text{Pig} + 0.003 * \text{Sheep}$$

$$Y_{\text{Finland}} = -3599 + 0.0018 * \text{Cattle} + 0.0057 * \text{Pig} - 0.015 * \text{Sheep} + 0.206 * \text{Goat} + 0.095 * \text{CHardCoal}$$

$$Y_{\text{France}} = 27210 + 3.2090 * \text{Pig} + 6.5295 * \text{Sheep} - 0.8875 * \text{CHardCoal} + 9.1712 * \text{CLignite} \\ - 1.0871 * \text{CPetroleumProducts} + -0.6347 * \text{CCrudeOil}$$

$$Y_{\text{Germany}} = 139900 - 0.00517 * \text{Pig} + 0.3287 * \text{CLignite}$$

$$Y_{\text{Greece}} = 8313 - 0.00268 * \text{Cattle} + 0.00044 * \text{Goat} - 0.0089 * \text{CNaturalGas}$$

$$Y_{\text{Hungary}} = -850.6 + 0.0012 * \text{Pig} + 0.00316 * \text{Sheep}$$

$$Y_{\text{Ireland}} = -0.00512 + 0.0013 * \text{Cattle} + 0.00186 * \text{Pig} - 0.00027 * \text{Sheep} + 0.203 * \text{Goat} \\ - 0.598 * \text{GVAChemicals} + 0.7955 * \text{CHardCoal}$$

$$Y_{\text{Italy}} = -43210 + 0.003 * \text{Cattle} + 0.0068 * \text{CNaturalGas} + 0.5026 * \text{CPetroleumProducts}$$

$$Y_{\text{Latvia}} = 978.3 - 0.00056 * \text{Cattle} + 0.0046 * \text{Sheep} + 0.00011 * \text{CropProduction} + 0.00656 * \text{CNaturalGas}$$

$$Y_{\text{Lithuania}} = 4306.83 - 0.102 * \text{Sheep} + 5.763 * \text{GVAChemicals} + 7.597 * \text{CHardCoal}$$

$$Y_{\text{Luxembourg}} = 515.745 - 0.0049 * \text{Sheep}$$

$$Y_{\text{Malta}} = 45.37 + 0.0022 * \text{Cattle} + 0.00095 * \text{Sheep} + 0.0017 * \text{Goat} - 0.00024 * \text{CropProduction} \\ + 1.084 * \text{GVAChemicals} - 0.0256 * \text{CPetroleumProducts}$$

$$Y_{\text{Netherlands}} = -8162 - 0.026 * \text{Goat} + 0.17 * \text{GVAChemicals} + 5.4 * \text{CLignite} \\ + 0.055 * \text{CPetroleumProducts} + 0.41 * \text{CCrudeOil}$$

$$Y_{\text{Poland}} = 7798 + 0.00124 * \text{Cattle} + 0.00064 * \text{Pig} + 0.013 * \text{CNaturalGas}$$

$$Y_{\text{Portugal}} = 1994 + 0.00328 * \text{Goat} + 0.1147 * \text{CPetroleumProducts}$$

$$Y_{\text{Romania}} = 5730 + 0.00033 * \text{Pig} - 0.00019 * \text{Sheep} - 0.00107 * \text{Goat} + 0.000065 * \text{CropProduction} \\ + 2.068 * \text{GVAChemicals} + 0.01008 * \text{CNaturalGas}$$

$$Y_{\text{Slovakia}} = -1699 + 0.00088 * \text{Pig} + 0.01478 * \text{Goat} + 1.042 * \text{CPetroleumProducts}$$

$$Y_{\text{Slovenia}} = 1326 + 0.000407 * \text{Pig} - 0.01368 * \text{Goat}$$

$$Y_{\text{Spain}} = 16830 + 0.000678 * \text{Sheep} - 0.003923 * \text{Goat} + 0.000109 * \text{CropProduction}$$

$$Y_{\text{Sweden}} = 2006 + 0.0018 * \text{Pig} + 0.0095 * \text{CNaturalGas} + 0.0617 * \text{CCrudeOil}$$

$$Y_{\text{UK}} = -7841.068 + 0.00479 * \text{Pig} + 0.06829 * \text{CHardCoal}$$