Energy Opex Cost Function - long period

LSECD long Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| dnsp |  |  |  |
| 1 | .519809 | .3654611 | .674157 |
| 2 | .5912523 | .4057383 | .7767662 |
| 3 | .7999067 | .6311347 | .9686787 |
| 4 | .6879298 | .5369705 | .8388891 |
| 5 | .7019368 | .5776246 | .8262489 |
| 6 | .5686519 | .4367099 | .7005938 |
| 7 | .6785734 | .5128238 | .8443231 |
| 8 | .7371733 | .5644233 | .9099234 |
| 9 | 1 | 1 | 1 |
| 10 | .9472443 | .7437073 | 1.150781 |
| 11 | .8494103 | .6927462 | 1.006074 |
| 12 | .8617723 | .6504641 | 1.073081 |
| 13 | .9317182 | .725235 | 1.138201 |
| Total | .7596445 | .6033107 | .9159783 |

LSECD long Elasticities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| Country code |  |  |  |  |  |
| 1.Aust | 0.520 | 0.218 | 0.138 | 0.087 | 0.962 |
| 2.NZ | 0.520 | 0.218 | 0.138 | 0.087 | 0.962 |
| 3.Ontario | 0.520 | 0.218 | 0.138 | 0.087 | 0.962 |
| Total | 0.520 | 0.218 | 0.138 | 0.087 | 0.962 |

LSETLG long Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| dnsp |  |  |  |
| 1 | .4742336 | .3293324 | .6191348 |
| 2 | .4980265 | .3357281 | .6603248 |
| 3 | .6962324 | .531141 | .8613238 |
| 4 | .6471816 | .5016895 | .7926736 |
| 5 | .6163871 | .4932475 | .7395268 |
| 6 | .6078458 | .4345932 | .7810984 |
| 7 | .7465039 | .5456904 | .9473175 |
| 8 | .575743 | .4138038 | .7376821 |
| 9 | 1 | 1 | 1 |
| 10 | .9552494 | .7509217 | 1.159577 |
| 11 | .7756234 | .6278808 | .923366 |
| 12 | .8598353 | .6445595 | 1.075111 |
| 13 | .6862527 | .4997109 | .8727944 |
| Total | .7030088 | .5467922 | .8592254 |

LSETLG long Elasticities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| Country code |  |  |  |  |  |
| 1.Aust | 0.117 | 0.341 | 0.274 | 0.215 | 0.948 |
| 2.NZ | 0.684 | 0.228 | 0.110 | -0.072 | 0.950 |
| 3.Ontario | 0.156 | 0.196 | 0.360 | 0.233 | 0.945 |
| Total | 0.312 | 0.237 | 0.264 | 0.134 | 0.947 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| dnsp |  |  |  |  |  |
| 1 | 0.088 | 0.304 | 0.320 | 0.212 | 0.925 |
| 2 | -0.231 | 0.386 | 0.323 | 0.462 | 0.940 |
| 3 | -0.235 | 0.330 | 0.399 | 0.422 | 0.915 |
| 4 | -0.039 | 0.326 | 0.354 | 0.319 | 0.960 |
| 5 | -0.074 | 0.375 | 0.295 | 0.352 | 0.948 |
| 6 | 0.564 | 0.220 | 0.270 | -0.025 | 1.028 |
| 7 | 0.582 | 0.298 | 0.143 | -0.023 | 1.000 |
| 8 | -0.076 | 0.394 | 0.209 | 0.366 | 0.893 |
| 9 | 0.321 | 0.338 | 0.186 | 0.120 | 0.965 |
| 10 | 0.266 | 0.354 | 0.313 | 0.028 | 0.961 |
| 11 | 0.198 | 0.404 | 0.169 | 0.155 | 0.927 |
| 12 | 0.351 | 0.273 | 0.308 | 0.035 | 0.966 |
| 13 | -0.190 | 0.434 | 0.279 | 0.370 | 0.893 |
| Total | 0.117 | 0.341 | 0.274 | 0.215 | 0.948 |

LSETLG long Monotonicity Violations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| Country code |  |  |  |  |  |
| 1.Aust | 0.444 | 0.000 | 0.000 | 0.154 | 0.598 |
| 2.NZ | 0.018 | 0.000 | 0.173 | 0.719 | 0.740 |
| 3.Ontario | 0.155 | 0.000 | 0.000 | 0.033 | 0.184 |
| Total | 0.174 | 0.000 | 0.054 | 0.272 | 0.445 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| dnsp |  |  |  |  |  |
| 1 | 0.056 | 0.000 | 0.000 | 0.000 | 0.056 |
| 2 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 3 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 4 | 0.833 | 0.000 | 0.000 | 0.000 | 0.833 |
| 5 | 0.944 | 0.000 | 0.000 | 0.000 | 0.944 |
| 6 | 0.000 | 0.000 | 0.000 | 1.000 | 1.000 |
| 7 | 0.000 | 0.000 | 0.000 | 0.944 | 0.944 |
| 8 | 0.944 | 0.000 | 0.000 | 0.000 | 0.944 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10 | 0.000 | 0.000 | 0.000 | 0.056 | 0.056 |
| 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 13 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| Total | 0.444 | 0.000 | 0.000 | 0.154 | 0.598 |

SFACD long Efficiency Scores

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| dnsp |  |  |  |  |  |
| 1 | 0.056 | 0.000 | 0.000 | 0.000 | 0.056 |
| 2 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 3 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 4 | 0.833 | 0.000 | 0.000 | 0.000 | 0.833 |
| 5 | 0.944 | 0.000 | 0.000 | 0.000 | 0.944 |
| 6 | 0.000 | 0.000 | 0.000 | 1.000 | 1.000 |
| 7 | 0.000 | 0.000 | 0.000 | 0.944 | 0.944 |
| 8 | 0.944 | 0.000 | 0.000 | 0.000 | 0.944 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10 | 0.000 | 0.000 | 0.000 | 0.056 | 0.056 |
| 11 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 13 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| Total | 0.444 | 0.000 | 0.000 | 0.154 | 0.598 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| Country code |  |  |  |
| 1.Aust | .76416 | .7222498 | .8133882 |
| 2.NZ | .7406638 | .7002272 | .789285 |
| 3.Ontario | .8070129 | .7620974 | .8579573 |
| Total | .7772142 | .7343343 | .8270692 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| dnsp |  |  |  |
| 1 | .532851 | .5027075 | .5653085 |
| 2 | .6111938 | .5766185 | .6484234 |
| 3 | .9281068 | .87602 | .9852854 |
| 4 | .72316 | .6822507 | .7672098 |
| 5 | .7099696 | .6698065 | .7532158 |
| 6 | .5813816 | .5484928 | .6167952 |
| 7 | .6025372 | .5684515 | .6392394 |
| 8 | .7390727 | .6972632 | .7840917 |
| 9 | .9674971 | .9209419 | 1.043165 |
| 10 | .9194973 | .86766 | .9757755 |
| 11 | .7537888 | .7111468 | .7997042 |
| 12 | .897183 | .8464418 | .9518509 |
| 13 | .9678409 | .9214465 | 1.043981 |
| Total | .76416 | .7222498 | .8133882 |

SFACD long Elasticities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| Country code |  |  |  |  |  |
| 1.Aust | 0.274 | 0.131 | 0.524 | 0.032 | 0.960 |
| 2.NZ | 0.274 | 0.131 | 0.524 | 0.032 | 0.960 |
| 3.Ontario | 0.274 | 0.131 | 0.524 | 0.032 | 0.960 |
| Total | 0.274 | 0.131 | 0.524 | 0.032 | 0.960 |

SFATLG long Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| dnsp |  |  |  |
| 1 | .5475184 | .5178088 | .5794087 |
| 2 | .3419496 | .3233947 | .3618665 |
| 3 | .8157091 | .7714469 | .8632203 |
| 4 | .5199189 | .4917069 | .5502017 |
| 5 | .4683991 | .4429827 | .4956811 |
| 6 | .7231235 | .6838852 | .765242 |
| 7 | .7210417 | .6819164 | .7630389 |
| 8 | .7799865 | .7376627 | .825417 |
| 9 | .9663317 | .9205452 | 1.035693 |
| 10 | .9211994 | .8713585 | .9750714 |
| 11 | .7359073 | .6959753 | .7787704 |
| 12 | .9725649 | .9298194 | 1.050874 |
| 13 | .8077477 | .7639175 | .8547952 |
| Total | .7170306 | .6794169 | .7614832 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_ub | eff\_lb |
| Country code |  |  |  |
| 1.Aust | .7170306 | .7614832 | .6794169 |
| 2.NZ | .7038824 | .7476275 | .6670167 |
| 3.Ontario | .7782343 | .8260396 | .7370874 |
| Total | .7420321 | .7878582 | .7029717 |

SFATLG long Elasticities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| Country code |  |  |  |  |  |
| 1.Aust | 0.104 | 0.296 | 0.188 | 0.133 | 0.721 |
| 2.NZ | 0.464 | 0.074 | 0.633 | -0.024 | 1.147 |
| 3.Ontario | 0.350 | 0.061 | 0.281 | 0.252 | 0.943 |
| Total | 0.333 | 0.115 | 0.371 | 0.141 | 0.959 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| dnsp |  |  |  |  |  |
| 1 | 0.294 | 0.158 | 0.184 | 0.202 | 0.839 |
| 2 | 0.126 | 0.310 | -0.326 | 0.407 | 0.516 |
| 3 | 0.306 | 0.155 | -0.211 | 0.430 | 0.679 |
| 4 | -0.023 | 0.339 | 0.108 | 0.195 | 0.619 |
| 5 | 0.074 | 0.333 | -0.094 | 0.269 | 0.582 |
| 6 | -0.372 | 0.475 | 1.012 | -0.305 | 0.811 |
| 7 | -0.123 | 0.422 | 0.725 | -0.203 | 0.821 |
| 8 | 0.604 | 0.085 | -0.429 | 0.493 | 0.753 |
| 9 | 0.064 | 0.338 | 0.340 | 0.020 | 0.763 |
| 10 | -0.212 | 0.448 | 0.695 | -0.200 | 0.731 |
| 11 | 0.256 | 0.276 | 0.094 | 0.129 | 0.756 |
| 12 | -0.038 | 0.314 | 0.705 | -0.118 | 0.863 |
| 13 | 0.398 | 0.195 | -0.356 | 0.409 | 0.646 |
| Total | 0.104 | 0.296 | 0.188 | 0.133 | 0.721 |

SFATLG long Monotonicity Violations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| Country code |  |  |  |  |  |
| 1.Aust | 0.372 | 0.000 | 0.397 | 0.333 | 0.786 |
| 2.NZ | 0.023 | 0.327 | 0.035 | 0.450 | 0.719 |
| 3.Ontario | 0.125 | 0.345 | 0.167 | 0.050 | 0.592 |
| Total | 0.146 | 0.266 | 0.175 | 0.235 | 0.673 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| dnsp |  |  |  |  |  |
| 1 | 0.056 | 0.000 | 0.056 | 0.056 | 0.111 |
| 2 | 0.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 3 | 0.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 4 | 0.722 | 0.000 | 0.056 | 0.000 | 0.778 |
| 5 | 0.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 6 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 |
| 7 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 |
| 8 | 0.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 9 | 0.222 | 0.000 | 0.000 | 0.278 | 0.278 |
| 10 | 1.000 | 0.000 | 0.000 | 1.000 | 1.000 |
| 11 | 0.000 | 0.000 | 0.056 | 0.000 | 0.056 |
| 12 | 0.833 | 0.000 | 0.000 | 1.000 | 1.000 |
| 13 | 0.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| Total | 0.372 | 0.000 | 0.397 | 0.333 | 0.786 |