Energy Opex Cost Function - short period

LSECD short Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| dnsp |  |  |  |
| 1 | .4921752 | .3387692 | .6455811 |
| 2 | .6006432 | .4330505 | .7682359 |
| 3 | .7297209 | .6037241 | .8557177 |
| 4 | .6871098 | .5529712 | .8212484 |
| 5 | .6746188 | .5712346 | .7780031 |
| 6 | .6091205 | .4768034 | .7414377 |
| 7 | .6815652 | .5291815 | .8339489 |
| 8 | .6855165 | .5582915 | .8127416 |
| 9 | 1 | 1 | 1 |
| 10 | .8374535 | .6851822 | .9897249 |
| 11 | .7820355 | .6631615 | .9009095 |
| 12 | .8363247 | .6326511 | 1.039998 |
| 13 | .8905962 | .7150978 | 1.066095 |
| Total | .7312985 | .5969322 | .8656647 |

LSECD short Elasticities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| Country code |  |  |  |  |  |
| 1.Aust | 0.494 | 0.240 | -0.110 | 0.338 | 0.961 |
| 2.NZ | 0.494 | 0.240 | -0.110 | 0.338 | 0.961 |
| 3.Ontario | 0.494 | 0.240 | -0.110 | 0.338 | 0.961 |
| Total | 0.494 | 0.240 | -0.110 | 0.338 | 0.961 |

LSETLG short Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| dnsp |  |  |  |
| 1 | .4991514 | .3447533 | .6535496 |
| 2 | .5176303 | .3775305 | .6577302 |
| 3 | .7499593 | .587989 | .9119297 |
| 4 | .7075405 | .5670856 | .8479953 |
| 5 | .6068698 | .5048445 | .708895 |
| 6 | .7981156 | .5859539 | 1.010277 |
| 7 | .7978202 | .6048854 | .990755 |
| 8 | .5853341 | .4444171 | .7262511 |
| 9 | 1 | 1 | 1 |
| 10 | .7777393 | .6109676 | .9445111 |
| 11 | .6402417 | .5359552 | .7445282 |
| 12 | .9200854 | .6952826 | 1.144888 |
| 13 | .6468066 | .495178 | .7984353 |
| Total | .7113303 | .5657571 | .8569035 |

LSETLG short Elasticities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| Country code |  |  |  |  |  |
| 1.Aust | -0.349 | 0.365 | -0.042 | 0.925 | 0.899 |
| 2.NZ | 0.596 | 0.236 | -0.115 | 0.218 | 0.935 |
| 3.Ontario | 0.182 | 0.174 | 0.299 | 0.297 | 0.952 |
| Total | 0.198 | 0.234 | 0.097 | 0.406 | 0.935 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| dnsp |  |  |  |  |  |
| 1 | -0.207 | 0.294 | -0.037 | 0.839 | 0.888 |
| 2 | -0.716 | 0.391 | 0.044 | 1.162 | 0.880 |
| 3 | -0.456 | 0.290 | 0.088 | 0.957 | 0.879 |
| 4 | -0.526 | 0.356 | 0.170 | 0.922 | 0.922 |
| 5 | -0.575 | 0.391 | 0.022 | 1.055 | 0.893 |
| 6 | -0.053 | 0.344 | 0.345 | 0.385 | 1.020 |
| 7 | -0.048 | 0.394 | 0.018 | 0.601 | 0.964 |
| 8 | -0.265 | 0.339 | -0.318 | 1.067 | 0.823 |
| 9 | -0.202 | 0.389 | -0.099 | 0.824 | 0.912 |
| 10 | -0.494 | 0.426 | -0.132 | 1.103 | 0.903 |
| 11 | -0.321 | 0.419 | -0.380 | 1.130 | 0.848 |
| 12 | -0.094 | 0.322 | 0.050 | 0.661 | 0.939 |
| 13 | -0.579 | 0.389 | -0.316 | 1.321 | 0.815 |
| Total | -0.349 | 0.365 | -0.042 | 0.925 | 0.899 |

LSETLG short Monotonicity Violations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| Country code |  |  |  |  |  |
| 1.Aust | 0.987 | 0.000 | 0.532 | 0.000 | 0.987 |
| 2.NZ | 0.105 | 0.000 | 0.737 | 0.294 | 0.969 |
| 3.Ontario | 0.204 | 0.000 | 0.075 | 0.086 | 0.365 |
| Total | 0.340 | 0.000 | 0.378 | 0.133 | 0.686 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| dnsp |  |  |  |  |  |
| 1 | 1.000 | 0.000 | 0.667 | 0.000 | 1.000 |
| 2 | 1.000 | 0.000 | 0.333 | 0.000 | 1.000 |
| 3 | 1.000 | 0.000 | 0.250 | 0.000 | 1.000 |
| 4 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 5 | 1.000 | 0.000 | 0.417 | 0.000 | 1.000 |
| 6 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 7 | 0.833 | 0.000 | 0.333 | 0.000 | 0.833 |
| 8 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 9 | 1.000 | 0.000 | 0.917 | 0.000 | 1.000 |
| 10 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 11 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 12 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 13 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| Total | 0.987 | 0.000 | 0.532 | 0.000 | 0.987 |

SFACD short Efficiency Scores

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| dnsp |  |  |  |  |  |
| 1 | 1.000 | 0.000 | 0.667 | 0.000 | 1.000 |
| 2 | 1.000 | 0.000 | 0.333 | 0.000 | 1.000 |
| 3 | 1.000 | 0.000 | 0.250 | 0.000 | 1.000 |
| 4 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 5 | 1.000 | 0.000 | 0.417 | 0.000 | 1.000 |
| 6 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 7 | 0.833 | 0.000 | 0.333 | 0.000 | 0.833 |
| 8 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 9 | 1.000 | 0.000 | 0.917 | 0.000 | 1.000 |
| 10 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 11 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 12 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 13 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| Total | 0.987 | 0.000 | 0.532 | 0.000 | 0.987 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| Country code |  |  |  |
| 1.Aust | .763476 | .7185919 | .8133097 |
| 2.NZ | .7505565 | .7068797 | .8005238 |
| 3.Ontario | .7604076 | .7157399 | .8101445 |
| Total | .7579931 | .713588 | .8078225 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| dnsp |  |  |  |
| 1 | .5813476 | .5468343 | .618652 |
| 2 | .6421806 | .6040558 | .6833885 |
| 3 | .8440285 | .7939204 | .8981888 |
| 4 | .7824375 | .7359859 | .8326456 |
| 5 | .7335769 | .690026 | .7806496 |
| 6 | .6757426 | .6356252 | .7191041 |
| 7 | .6867709 | .6459988 | .7308401 |
| 8 | .6797039 | .6393514 | .7233197 |
| 9 | .959236 | .907976 | 1.031658 |
| 10 | .8705692 | .818886 | .9264333 |
| 11 | .7103729 | .6681997 | .7559566 |
| 12 | .9039853 | .8503726 | .9620736 |
| 13 | .8552362 | .8044627 | .9101157 |
| Total | .763476 | .7185919 | .8133097 |

SFACD short Elasticities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| Country code |  |  |  |  |  |
| 1.Aust | 0.088 | 0.289 | -0.007 | 0.567 | 0.937 |
| 2.NZ | 0.088 | 0.289 | -0.007 | 0.567 | 0.937 |
| 3.Ontario | 0.088 | 0.289 | -0.007 | 0.567 | 0.937 |
| Total | 0.088 | 0.289 | -0.007 | 0.567 | 0.937 |

SFATLG short Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_lb | eff\_ub |
| dnsp |  |  |  |
| 1 | .5494977 | .5197937 | .5813731 |
| 2 | .3974409 | .3759567 | .4204958 |
| 3 | .7596846 | .7186187 | .8037526 |
| 4 | .6596685 | .6240091 | .6979347 |
| 5 | .5222116 | .4939826 | .5525042 |
| 6 | .7868582 | .7443234 | .8325025 |
| 7 | .7863819 | .7438729 | .8319986 |
| 8 | .5549331 | .5249354 | .5871238 |
| 9 | .9358918 | .8859174 | .9911488 |
| 10 | .7457547 | .7054419 | .7890148 |
| 11 | .5663023 | .53569 | .5991526 |
| 12 | .9702847 | .9263803 | 1.0443 |
| 13 | .5075917 | .4801531 | .5370363 |
| Total | .6725001 | .6368519 | .712949 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | eff | eff\_ub | eff\_lb |
| Country code |  |  |  |
| 1.Aust | .6725001 | .712949 | .6368519 |
| 2.NZ | .6951692 | .735989 | .6578733 |
| 3.Ontario | .701425 | .7423781 | .663655 |
| Total | .6933121 | .7341163 | .656142 |

SFATLG short Elasticities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| Country code |  |  |  |  |  |
| 1.Aust | -0.767 | 0.496 | -0.337 | 1.363 | 0.755 |
| 2.NZ | 0.578 | 0.276 | -0.092 | 0.305 | 1.068 |
| 3.Ontario | -0.156 | 0.202 | 0.541 | 0.408 | 0.996 |
| Total | -0.058 | 0.288 | 0.157 | 0.579 | 0.967 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | ely4 | elY |
| dnsp |  |  |  |  |  |
| 1 | -0.783 | 0.421 | -0.179 | 1.390 | 0.849 |
| 2 | -1.194 | 0.526 | -0.498 | 1.788 | 0.621 |
| 3 | -1.063 | 0.404 | -0.205 | 1.627 | 0.764 |
| 4 | -1.013 | 0.480 | 0.010 | 1.235 | 0.712 |
| 5 | -0.973 | 0.520 | -0.439 | 1.554 | 0.662 |
| 6 | -0.250 | 0.428 | 0.784 | -0.101 | 0.862 |
| 7 | -0.153 | 0.499 | -0.005 | 0.478 | 0.819 |
| 8 | -0.594 | 0.452 | -1.165 | 2.061 | 0.754 |
| 9 | -0.410 | 0.506 | -0.440 | 1.112 | 0.768 |
| 10 | -1.176 | 0.633 | -0.217 | 1.494 | 0.735 |
| 11 | -0.674 | 0.580 | -1.069 | 1.888 | 0.725 |
| 12 | -0.540 | 0.445 | 0.175 | 0.794 | 0.874 |
| 13 | -1.152 | 0.558 | -1.130 | 2.393 | 0.669 |
| Total | -0.767 | 0.496 | -0.337 | 1.363 | 0.755 |

SFATLG short Monotonicity Violations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| Country code |  |  |  |  |  |
| 1.Aust | 0.987 | 0.000 | 0.763 | 0.071 | 1.000 |
| 2.NZ | 0.136 | 0.000 | 0.658 | 0.320 | 0.912 |
| 3.Ontario | 0.618 | 0.026 | 0.078 | 0.201 | 0.825 |
| Total | 0.546 | 0.012 | 0.404 | 0.210 | 0.889 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | mon4 | montot |
| dnsp |  |  |  |  |  |
| 1 | 1.000 | 0.000 | 0.917 | 0.000 | 1.000 |
| 2 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 3 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 4 | 1.000 | 0.000 | 0.417 | 0.000 | 1.000 |
| 5 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 6 | 1.000 | 0.000 | 0.000 | 0.917 | 1.000 |
| 7 | 0.833 | 0.000 | 0.583 | 0.000 | 1.000 |
| 8 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 9 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 10 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 11 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| 12 | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 13 | 1.000 | 0.000 | 1.000 | 0.000 | 1.000 |
| Total | 0.987 | 0.000 | 0.763 | 0.071 | 1.000 |