Time Varying BC95-AJTT-HN-GTC-short

SFACD BC95-AJTT-HN-GTC Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | 338.917 | 284.945 | 340.632 | 964.494 |
| 2.NZ | 338.917 | 284.945 | 340.632 | 964.494 |
| 3.Ontario | 338.917 | 284.945 | 340.632 | 964.494 |
| Total | 338.917 | 284.945 | 340.632 | 964.494 |

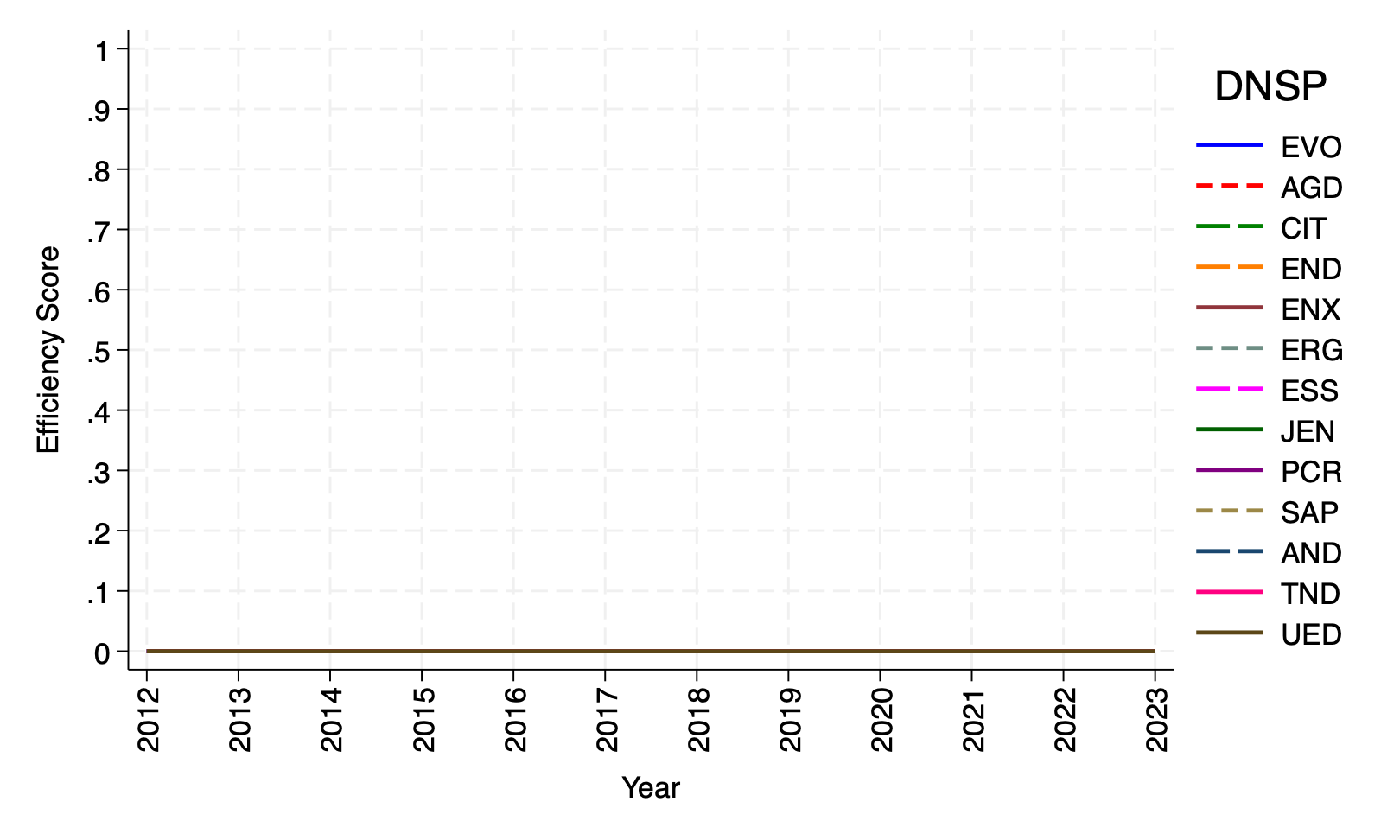
SFACD BC95-AJTT-HN-GTC Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | 95% lower bound of E(exp(-u)|e) | 95% upper bound of E(exp(-u)|e) |
| dnsp |  |  |  |
| 1 | 0 | 0 | 0 |
| 2 | . | . | . |
| 3 | 0 | 0 | 0 |
| 4 | . | . | . |
| 5 | . | . | . |
| 6 | . | . | . |
| 7 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 |
| 10 | . | . | . |
| 11 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | 95% lower bound of E(exp(-u)|e) | 95% upper bound of E(exp(-u)|e) |
| Country code |  |  |  |
| 1.Aust | 0 | 0 | 0 |
| 2.NZ | .0021169 | .0021169 | .0021169 |
| 3.Ontario | .5753456 | .5753456 | .5753456 |
| Total | .261332 | .261332 | .261332 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | |
|  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| dnsp |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | |
|  | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| Country code |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.Aust |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.NZ |  | 5.30e-23 | 6.31e-19 | 7.51e-15 | 8.95e-11 | 1.07e-06 | .0127004 | . | . | . | . | . | . | .0021169 |
| 3.Ontario | . | . | . | . | . | . | .938067 | .7494402 | .5987425 | .4783472 | .382161 | .3053159 |  | .5753456 |
| Total | . | 3.73e-23 | 4.44e-19 | 5.29e-15 | 6.30e-11 | 7.50e-07 | .4900938 | .5873991 | .4692847 | .3749208 | .2995316 | .2393017 | 0 | .261332 |



SFATLG BC95-AJTT-HN-GTC short Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | -318.184 | 396.506 | -94.140 | -15.817 |
| 2.NZ | 48.241 | 489.773 | 322.626 | 860.641 |
| 3.Ontario | -63.802 | 453.350 | 367.392 | 756.939 |
| Total | -83.116 | 452.581 | 255.089 | 624.554 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| dnsp |  |  |  |  |
| 1 | -172.881 | 429.537 | 159.717 | 416.374 |
| 2 | -469.224 | 356.738 | -234.298 | -346.784 |
| 3 | -272.351 | 401.969 | 98.165 | 227.783 |
| 4 | -406.744 | 371.983 | -154.035 | -188.797 |
| 5 | -435.550 | 366.650 | -227.013 | -295.913 |
| 6 | -349.947 | 390.313 | -186.165 | -145.799 |
| 7 | -330.501 | 398.533 | -229.248 | -161.216 |
| 8 | -209.387 | 423.087 | 65.774 | 279.474 |
| 9 | -322.571 | 398.645 | -171.682 | -95.608 |
| 10 | -352.318 | 390.025 | -186.443 | -148.735 |
| 11 | -287.826 | 407.891 | -134.494 | -14.429 |
| 12 | -215.007 | 422.024 | 34.351 | 241.368 |
| 13 | -312.086 | 397.188 | -58.443 | 26.659 |
| Total | -318.184 | 396.506 | -94.140 | -15.817 |

SFATLG BC95-AJTT-HN-GTC short Monotonicity Violations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| Country code |  |  |  |  |
| 1.Aust | 1.000 | 0.000 | 0.692 | 1.000 |
| 2.NZ | 0.316 | 0.000 | 0.101 | 0.316 |
| 3.Ontario | 0.517 | 0.000 | 0.103 | 0.517 |
| Total | 0.557 | 0.000 | 0.228 | 0.557 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| dnsp |  |  |  |  |
| 1 | 1.000 | 0.000 | 0.000 | 1.000 |
| 2 | 1.000 | 0.000 | 1.000 | 1.000 |
| 3 | 1.000 | 0.000 | 0.000 | 1.000 |
| 4 | 1.000 | 0.000 | 1.000 | 1.000 |
| 5 | 1.000 | 0.000 | 1.000 | 1.000 |
| 6 | 1.000 | 0.000 | 1.000 | 1.000 |
| 7 | 1.000 | 0.000 | 1.000 | 1.000 |
| 8 | 1.000 | 0.000 | 0.000 | 1.000 |
| 9 | 1.000 | 0.000 | 1.000 | 1.000 |
| 10 | 1.000 | 0.000 | 1.000 | 1.000 |
| 11 | 1.000 | 0.000 | 1.000 | 1.000 |
| 12 | 1.000 | 0.000 | 0.000 | 1.000 |
| 13 | 1.000 | 0.000 | 1.000 | 1.000 |
| Total | 1.000 | 0.000 | 0.692 | 1.000 |

SFATLG BC95-AJTT-HN-GTC short Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | 95% lower bound of E(exp(-u)|e) | 95% upper bound of E(exp(-u)|e) |
| dnsp |  |  |  |
| 1 | . | . | . |
| 2 | 0 | 0 | 0 |
| 3 | . | . | . |
| 4 | . | . | . |
| 5 | 0 | 0 | 0 |
| 6 | . | . | . |
| 7 | . | . | . |
| 8 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 |
| 10 | . | . | . |
| 11 | . | . | . |
| 12 | . | . | . |
| 13 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | 95% lower bound of E(exp(-u)|e) | 95% upper bound of E(exp(-u)|e) |
| Country code |  |  |  |
| 1.Aust | 0 | 0 | 0 |
| 2.NZ | 2.08e-12 | 2.08e-12 | 2.08e-12 |
| 3.Ontario | 7.82e-07 | 7.82e-07 | 7.82e-07 |
| Total | 3.91e-07 | 3.91e-07 | 3.91e-07 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | |
|  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| dnsp |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 4 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | |
|  | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| Country code |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.Aust |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.NZ |  | . | . | . | . | . | . | 1.25e-11 | 5.09e-32 | 0 | 0 | 0 | 0 | 2.08e-12 |
| 3.Ontario | 0 | 7.41e-36 | 2.09e-28 | 5.90e-21 | 1.66e-13 | 4.69e-06 | . | . | . | . | . | . |  | 7.82e-07 |
| Total | 0 | 6.32e-36 | 1.78e-28 | 5.03e-21 | 1.42e-13 | 4.00e-06 | 0 | 9.87e-12 | 4.03e-32 | 0 | 0 | 0 | 0 | 3.91e-07 |

