Time Varying BC95-AJTT-HN-GTC-long

SFACD BC95-AJTT-HN-GTC Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | -6.350 | 4.202 | -1.368 | -3.516 |
| 2.NZ | -6.350 | 4.202 | -1.368 | -3.516 |
| 3.Ontario | -6.350 | 4.202 | -1.368 | -3.516 |
| Total | -6.350 | 4.202 | -1.368 | -3.516 |

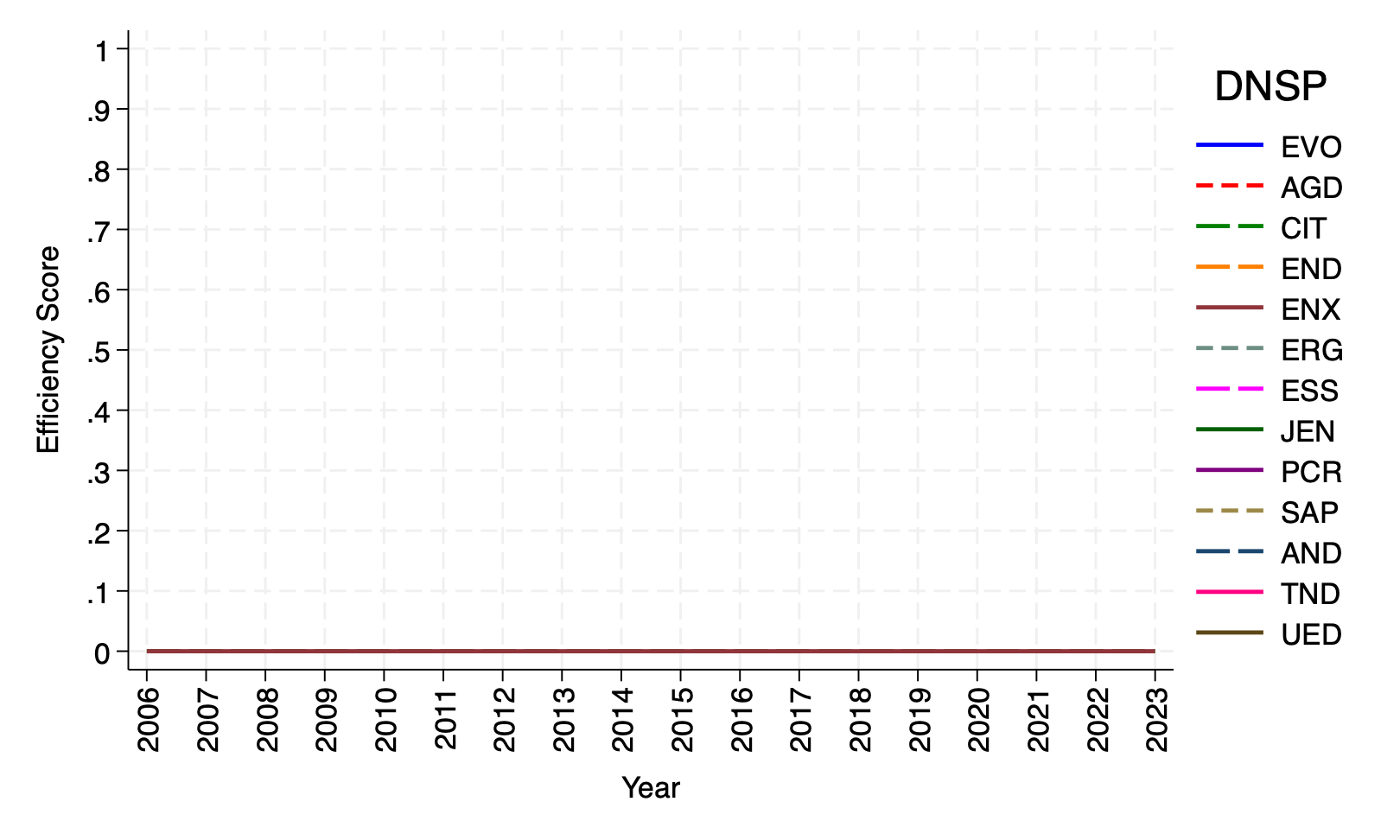
SFACD BC95-AJTT-HN-GTC Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 | . | . | . |
| 2 | . | . | . |
| 3 | 0 | 0 | 0 |
| 4 | . | . | . |
| 5 | 0 | 0 | 0 |
| 6 | . | . | . |
| 7 | . | . | . |
| 8 | . | . | . |
| 9 | . | . | . |
| 10 | . | . | . |
| 11 | . | . | . |
| 12 | . | . | . |
| 13 | . | . | . |
| 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 | .0065753 | .0065753 | .0065753 |
| 3.Ontario | .0939592 | .0939592 | .0939592 |
| Total | .0548028 | .0548028 | .0548028 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | |
|  | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| dnsp |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | | |
|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.NZ |  | 6.21e-23 | 2.60e-20 | 1.09e-17 | 4.57e-15 | 1.91e-12 | 8.02e-10 | 3.36e-07 | .0001409 | .0590368 | . | . | . | . | . | . | . | . | . | .0065753 |
| 3.Ontario | .0002993 | .0007591 | .0019251 | .0048825 | .0123828 | .0314052 | .0796494 | .2020056 | .5123235 | . | . | . | . | . | . | . | . | . |  | .0939592 |
| Total | .0002993 | .0004403 | .0011166 | .0028318 | .0071821 | .018215 | .0461966 | .1171634 | .2972012 | .0534142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .0548028 |



SFATLG BC95-AJTT-HN-GTC long Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | 7.759 | -29.548 | -45.843 | -67.632 |
| 2.NZ | 6.415 | 15.288 | 8.230 | 29.933 |
| 3.Ontario | 12.833 | -4.100 | 23.079 | 31.812 |
| Total | 9.753 | -3.484 | 3.766 | 10.034 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| dnsp |  |  |  |  |
| 1 | 11.390 | -14.749 | -5.161 | -8.521 |
| 2 | 10.698 | -50.290 | -59.931 | -99.523 |
| 3 | 14.727 | -30.377 | -8.598 | -24.248 |
| 4 | 8.591 | -40.747 | -53.367 | -85.523 |
| 5 | 8.685 | -44.223 | -61.946 | -97.484 |
| 6 | -0.442 | -26.131 | -74.769 | -101.342 |
| 7 | -0.109 | -23.764 | -78.098 | -101.970 |
| 8 | 13.698 | -22.078 | -11.904 | -20.284 |
| 9 | 4.397 | -27.022 | -61.391 | -84.016 |
| 10 | 3.700 | -30.144 | -65.964 | -92.408 |
| 11 | 6.986 | -25.275 | -50.604 | -68.894 |
| 12 | 5.589 | -15.820 | -33.526 | -43.757 |
| 13 | 12.963 | -33.501 | -30.704 | -51.243 |
| Total | 7.759 | -29.548 | -45.843 | -67.632 |

SFATLG BC95-AJTT-HN-GTC long Monotonicity Violations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| Country code |  |  |  |  |
| 1.Aust | 0.120 | 1.000 | 1.000 | 1.000 |
| 2.NZ | 0.000 | 0.158 | 0.231 | 0.231 |
| 3.Ontario | 0.000 | 0.420 | 0.146 | 0.420 |
| Total | 0.026 | 0.462 | 0.354 | 0.485 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| dnsp |  |  |  |  |
| 1 | 0.000 | 1.000 | 1.000 | 1.000 |
| 2 | 0.000 | 1.000 | 1.000 | 1.000 |
| 3 | 0.000 | 1.000 | 1.000 | 1.000 |
| 4 | 0.000 | 1.000 | 1.000 | 1.000 |
| 5 | 0.000 | 1.000 | 1.000 | 1.000 |
| 6 | 0.889 | 1.000 | 1.000 | 1.000 |
| 7 | 0.667 | 1.000 | 1.000 | 1.000 |
| 8 | 0.000 | 1.000 | 1.000 | 1.000 |
| 9 | 0.000 | 1.000 | 1.000 | 1.000 |
| 10 | 0.000 | 1.000 | 1.000 | 1.000 |
| 11 | 0.000 | 1.000 | 1.000 | 1.000 |
| 12 | 0.000 | 1.000 | 1.000 | 1.000 |
| 13 | 0.000 | 1.000 | 1.000 | 1.000 |
| Total | 0.120 | 1.000 | 1.000 | 1.000 |

SFATLG BC95-AJTT-HN-GTC long 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 | . | . | . |
| 3 | . | . | . |
| 4 | . | . | . |
| 5 | . | . | . |
| 6 | . | . | . |
| 7 | . | . | . |
| 8 | . | . | . |
| 9 | . | . | . |
| 10 | . | . | . |
| 11 | 0 | 0 | 0 |
| 12 | . | . | . |
| 13 | . | . | . |
| 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 | .0006931 | .0006931 | .0006931 |
| 3.Ontario | .0164996 | .0164996 | .0164996 |
| Total | .0098332 | .0098332 | .0098332 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | |
|  | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| dnsp |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | | |
|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.NZ |  | . | . | . | . | . | . | . | . | . | .0062372 | 4.42e-07 | 3.13e-11 | 2.22e-15 | 1.57e-19 | 1.11e-23 | 7.89e-28 | 5.59e-32 | 3.96e-36 | .0006931 |
| 3.Ontario | . | . | . | . | . | . | . | . | . | .1483284 | .0001682 | 1.91e-07 | 2.16e-10 | 2.45e-13 | 2.78e-16 | 3.15e-19 | 3.57e-22 | 4.05e-25 |  | .0164996 |
| Total | . | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .1433841 | .002518 | 2.84e-07 | 1.40e-10 | 1.46e-13 | 1.65e-16 | 1.86e-19 | 2.11e-22 | 2.40e-25 | 3.76e-36 | .0098332 |

