Time Varying BC95-AJTT-HN-long period

SFACD BC95-AJTT-HN Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | -150.641 | 370.981 | -259.969 | -39.629 |
| 2.NZ | -150.641 | 370.981 | -259.969 | -39.629 |
| 3.Ontario | -150.641 | 370.981 | -259.969 | -39.629 |
| Total | -150.641 | 370.981 | -259.969 | -39.629 |

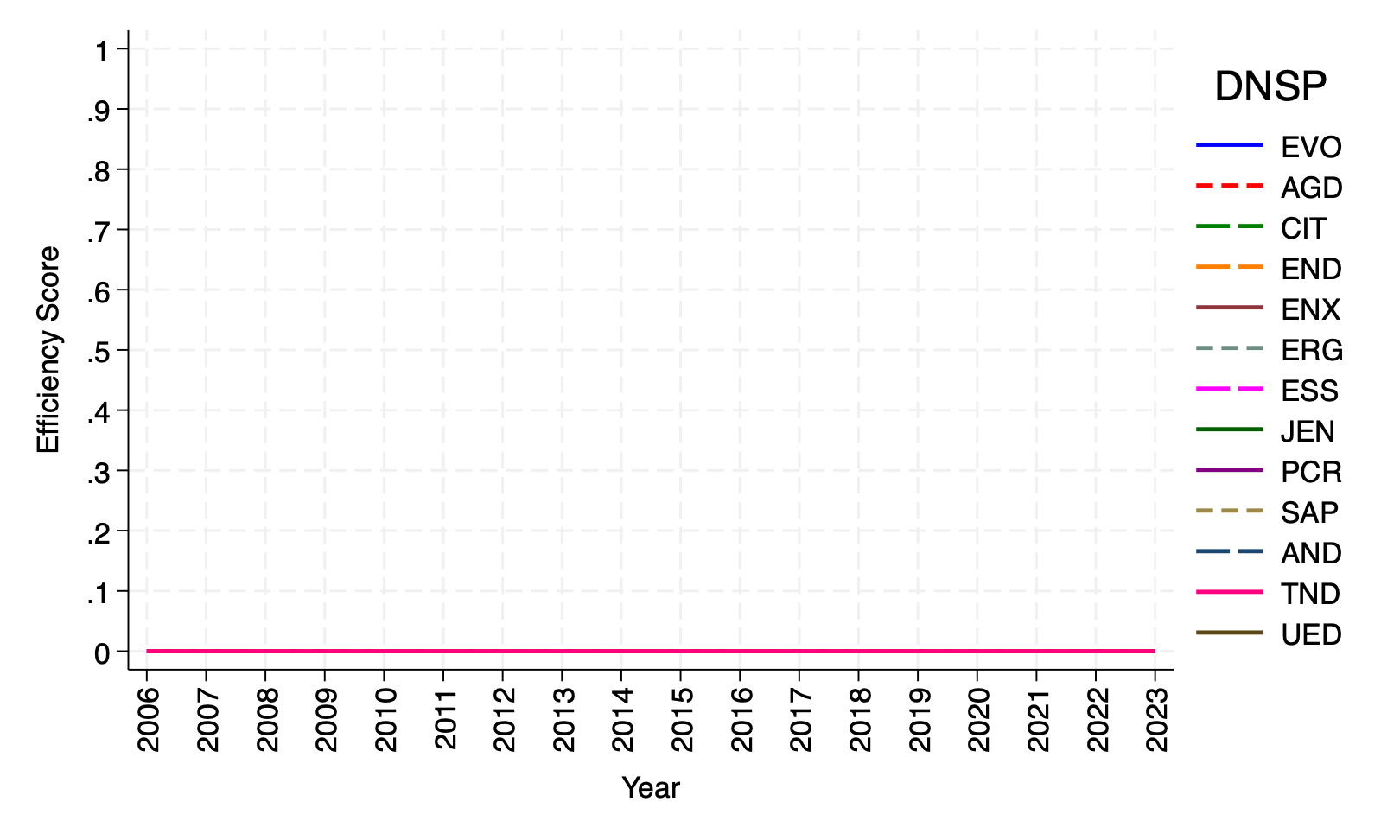
SFACD BC95-AJTT-HN Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 |
| 5 | . | . | . |
| 6 | . | . | . |
| 7 | . | . | . |
| 8 | 0 | 0 | 0 |
| 9 | . | . | . |
| 10 | 0 | 0 | 0 |
| 11 | . | . | . |
| 12 | 0 | 0 | 0 |
| 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 | . | . | . |
| 3.Ontario | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | |
|  | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3.Ontario | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



SFATLG BC95-AJTT-HN Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | -191.223 | -298.604 | -114.647 | -604.474 |
| 2.NZ | 17.151 | -98.344 | 50.255 | -30.937 |
| 3.Ontario | 65.325 | -47.219 | 3.575 | 21.681 |
| Total | -4.354 | -116.717 | -7.080 | -128.151 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| dnsp |  |  |  |  |
| 1 | -47.965 | -153.248 | -40.736 | -241.949 |
| 2 | -257.034 | -355.189 | -178.634 | -790.857 |
| 3 | -71.974 | -170.168 | -84.097 | -326.239 |
| 4 | -215.864 | -324.937 | -155.378 | -696.179 |
| 5 | -256.986 | -359.633 | -165.631 | -782.249 |
| 6 | -252.732 | -386.794 | -148.173 | -787.699 |
| 7 | -282.702 | -405.382 | -132.498 | -820.582 |
| 8 | -98.853 | -187.465 | -51.973 | -338.292 |
| 9 | -240.554 | -352.016 | -120.975 | -713.544 |
| 10 | -248.786 | -365.466 | -138.394 | -752.645 |
| 11 | -219.212 | -319.670 | -98.263 | -637.145 |
| 12 | -127.415 | -246.883 | -75.919 | -450.216 |
| 13 | -165.829 | -254.998 | -99.744 | -520.571 |
| Total | -191.223 | -298.604 | -114.647 | -604.474 |

SFATLG BC95-AJTT-HN Monotonicity Violations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| Country code |  |  |  |  |
| 1.Aust | 1.000 | 1.000 | 1.000 | 1.000 |
| 2.NZ | 0.319 | 1.000 | 0.181 | 1.000 |
| 3.Ontario | 0.234 | 0.602 | 0.379 | 0.602 |
| Total | 0.423 | 0.811 | 0.450 | 0.811 |

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

SFATLG BC95-AJTT-HN 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 | 0 | 0 | 0 |
| 5 | . | . | . |
| 6 | . | . | . |
| 7 | . | . | . |
| 8 | . | . | . |
| 9 | 0 | 0 | 0 |
| 10 | .0001756 | .0001756 | .0001756 |
| 11 | 0 | 0 | 0 |
| 12 | . | . | . |
| 13 | . | . | . |
| Total | .0000351 | .0000351 | .0000351 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 | .0000351 | .0000351 | .0000351 |
| 2.NZ | 0 | 0 | 0 |
| 3.Ontario | 0 | 0 | 0 |
| Total | 3.31e-06 | 3.31e-06 | 3.31e-06 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | |
|  | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | .0001821 | .0001813 | .0001805 | .0001798 | .000179 | .0001782 | .0001775 | .0001767 | .0001759 | .0001752 | .0001744 | .0001737 | .000173 | .0001722 | .0001715 | .0001707 | .00017 | .0001693 | .0001756 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Total | .0000364 | .0000363 | .0000361 | .000036 | .0000358 | .0000356 | .0000355 | .0000353 | .0000352 | .000035 | .0000349 | .0000347 | .0000346 | .0000344 | .0000343 | .0000341 | .000034 | .0000339 | .0000351 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 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 |  | .0000364 | .0000363 | .0000361 | .000036 | .0000358 | .0000356 | .0000355 | .0000353 | .0000352 | .000035 | .0000349 | .0000347 | .0000346 | .0000344 | .0000343 | .0000341 | .000034 | .0000339 | .0000351 |
| 2.NZ |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.Ontario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 |
| Total | 0 | 3.44e-06 | 3.42e-06 | 3.41e-06 | 3.39e-06 | 3.38e-06 | 3.36e-06 | 3.35e-06 | 3.33e-06 | 3.32e-06 | 3.31e-06 | 3.29e-06 | 3.28e-06 | 3.26e-06 | 3.25e-06 | 3.24e-06 | 3.22e-06 | 3.21e-06 | 7.05e-06 | 3.31e-06 |

