# Appendix

# Table A1: Data Providers and Sources

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|  | **Data Providers** | **Data Sources** |
| **Dependent variable** |  |  |
| Additionally installed wind power capacity over the period 2008-2012 in MW | Deutsche Gesellschaft für Sonnenenergie e.V. (Germany) and Swedish Energy Agency (Sweden) | DGS (2014) (Germany) and Energimyndigheten (2013) (Sweden) |
| **Variables measuring regional land-use policies** |  |  |
| Priority areas in %  | Federal Institute for Research on Building, Urban Affairs and Spatial Development (Germany) and Swedish Energy Agency (Sweden) | BBSR (2014) (Germany) and Energimyndigheten (2010) (Sweden) |
| Protected areas in %  | Leibniz Institute of Ecological Urban and Regional Development (Germany) and Statistics Sweden (Sweden) | IÖR (2015) (Germany) and SCB (2015) (Sweden) |
| **Variables addressing the political willingness to facilitate wind power deployment**  |  |  |
| Total installed capacity prior to 2008 in MW | Deutsche Gesellschaft für Sonnenenergie e.V. (Germany) and Swedish Energy Agency (Sweden) | DGS (2014) (Germany) and Energimyndigheten (2013) (Sweden) |
| Participation of the Green Party between 2000 and 2012 in number of years | German statistical online platform DESTATIS (Germany) and Swedish Association of Local Authorities and Regions (Sweden) | DESTATIS (2015) (Germany) and SKL (2014) (Sweden) |
| Unemployment rate in %  | German statistical online platform DESTATIS (Germany) and Statistics Sweden (Sweden) | DESTATIS (2015) (Germany) and SCB (2010a) (Sweden) |
| **Control variables** |  |  |
| Population density, inhabitants per km²  | German statistical online platform DESTATIS (Germany) and Statistics Sweden (Sweden) | DESTATIS (2015) (Germany) and SCB (2010b) (Sweden) |
| Land area in km²  | German statistical online platform DESTATIS (Germany) and Statistics Sweden (Sweden) | DESTATIS (2015) (Germany) and SCB (2010c) (Sweden) |
| Wind speed in m/s  | German Weather Service (Germany) and Swedish Energy Agency (Sweden) | DWD (2015) (Germany) and Energimyndigheten (2013) (Sweden) |

**Table A2: Correlation Coefficient Matrix: German Sample**  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cap08-12 | Priority area | Protect area | Cap 2007 | Green party | Unem-ploy | Pop dens | Land area | Wind speed |
| Cap 08-12 | 1 |  |  |  |  |  |  |  |  |
| Priority area | 0.32 | 1 |  |  |  |  |  |  |  |
| Protect area | -0.19 | -0.06 | 1 |  |  |  |  |  |  |
| Cap 2007 | 0.19 | 0.12 | -0.16 | 1 |  |  |  |  |  |
| Green party | 0.20 | 0.58 | -0.05 | 0.05 | 1 |  |  |  |  |
| Unemploy | 0.21 | 0.14 | 0.11 | 0.13 | -0.08 | 1 |  |  |  |
| Pop dens | -0.23 | 0.05 | 0.48 | -0.10 | 0.09 | 0.13 | 1 |  |  |
| Land area | 0.43 | 0.16 | -0.45 | 0.14 | 0.00 | 0.26 | -0.53 | 1 |  |
| Wind speed | 0.36 | 0.23 | -0.20 | 0.13 | 0.44 | 0.02 | -0.27 | 0.25 | 1 |

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| **Table A3: Correlation Coefficient Matrix: Swedish Sample**  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cap08-12 | Priority area | Protect area | Cap 2007 | Green party | Unem-ploy | Pop dens | Land area | Wind speed |
| Cap 08-12 | 1 |  |  |  |  |  |  |  |  |
| Priority area | 0.06 | 1 |  |  |  |  |  |  |  |
| Protect area | -0.05 | 0.04 | 1 |  |  |  |  |  |  |
| Cap 2007 | 0.39 | 0.06 | -0.05 | 1 |  |  |  |  |  |
| Green party | -0.03 | -0.01 | 0.16 | 0.10 | 1 |  |  |  |  |
| Unemploy | 0.15 | 0.02 | -0.02 | 0.07 | 0.01 | 1 |  |  |  |
| Pop dens | -0.10 | -0.07 | 0.10 | 0.05 | 0.10 | -0.17 | 1 |  |  |
| Land area | 0.26 | -0.03 | 0.22 | 0.22 | 0.04 | 0.39 | -0.15 | 1 |  |
| Wind speed | 0.02 | 0.06 | -0.02 | 0.24 | 0.04 | -0.52 | 0.15 | -0.36 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent variables** | **Germany (full sample)** | **Germany (limited sample)** |  | **Sweden (full sample)** |
|  | **Probit** |  | **Truncated** |  | **Probit** |  | **Truncated** |  | **Probit** |  | **Truncated** |  |
| Constant | -6.20911 (3.34027) | \* | -7.24773 (3.78530) | \* | -9.85532 (5.36741) | \* | -4.19665 (3.99602) |  | -8.72519 (1.53339) | \*\*\* | 10.09125 (8.98713) |  |
| Priority areas in % per planning region area  | --- |  | --- |  | 0.82354 (0.39107) | \*\* | 0.39664 (0.22035) | \* | --- |  | --- |  |
| Priority areas in % per municipality | --- |  | --- |  | --- |  | --- |  | 0.11674 (0.05819) | \*\* | 0.04538 (0.39018) |  |
| Protected area per district area in %  | -0.01874 (0.02761) |  | 0.03598 (0.05255) |  | -0.00998 (0.05114) |  | -0.02289 (0.09750) |  | --- |  | --- |  |
| Protected area per municipalities area in % | --- |  | --- |  | --- |  | --- |  | -0.00594 (0.00746) |  | -0.06053 (0.02863) | \*\* |
| Installed capacity within Federal States till 2007 (MW) | 0.00005 (0.00007) |  | 0.00031 (0.00011) | \*\*\* | 0.00003 (0.00009) |  | 0.00033 (0.00011) | \*\*\* | --- |  | --- |  |
| Installed capacity within municipality till 2007 (MW) | --- |  | --- |  | --- |  | --- |  | 0.12474 (0.06007) | \*\* | 0.04182 (0.02220) | \*\* |
| **Participation of Green Party in German Federal Gov (1/0)** | 0.07250 (0.11974) |  | 0.19745 (0.32091) |  | 0.00921 (0.02284) |  | 0.44887 (0.65332) |  | --- |  | --- |  |
| **Participation of Green Party in Swedish Municipal Gov (1/0)** | --- |  | --- |  | --- |  | --- |  | 0.19773 (0.14322) |  | 0.89113 (0.53887) | \*\* |
| Unemployment rate in %  | 0.05982 (0.07631) |  | 0.34406 (0.17219) | \*\* | 0.00934 (0.02275) |  | 0.26733 (0.06690) | \*\*\* | 0.09643 (0.05774) | \* | -0.01902 (0.03743) |  |
| ln Population density in persons per m² | -0.09873 (0.14332) |  | -0.39021 (0.28032) |  | 0.11736 (0.19740) |  | -0.66421 (0.40255) | \* | -0.00212 (0.08842) |  | -0.48336 (0.13967) | \*\*\* |
| ln Land area in km² | 0.77222 (0.22081) | \*\*\* | 0.59538 (0.27982) | \*\* | 0.70022 (0.31828) | \*\* | 0.36504 (0.30026) |  | 0.43011 (0.19880) | \*\*\* | 0.16754 (0.22859) |  |
| Average wind speed in m/s² | 0.18274 (0.12109) |  | 0.83648 (0.25843) | \*\*\* | 0.88635 (0.48701) | \* | 0.97649 (0.42456) | \*\* | 0.93327 (0.40330) | \*\*\* | -0.17743 (0.33998) |  |
| Sigma ($σ)$ | --- |  | 1.49034 (0.10873) | \*\*\* | --- |  | 1.38749 (0.09882) | \*\*\* | --- |  | 1.27558 (0.10112) | \*\*\* |
| Number of observations | 402 |  | 402 |  | 209 |  | 209 |  | 290 |  | 290 |  |
| Log Likelihood | -171.8383 |  | -397.0892 |  | -76.7433 |  | -271.0340 |  | -178.5562 |  | -206.0904 |  |
| adjusted *R*² |  |  | 0.4113 |  |  |  | 0.5602 |  |  |  | 0.2915 |  |
| Statistical significance codes: ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05  |

**Table A4: Estimates of the Double-Hurdle Regression Models with Green Party Participation Coded as Dummy (1/0) Variable**

**(standard errors in parentheses)**