1 List of all target and external variables

Table 1: Exhaustive list of all target and external variables

Table 1: Exhaustive list of all target and external variables			
Parameter	Mean	\mathbf{Std}	Skewness
Temperature 2m (°C) Scotland	6.54	5.28	0.18
Relative humidity 2m (%) Scotland	87.0	11.64	-1.28
Dew point 2m (°C) Scotland	4.37	4.84	-0.08
Apparent temperature (°C) Scotland	3.48	6.36	0.28
Rain (mm) Scotland	0.14	0.43	7.68
Pressure msl (hPa) Scotland	1011.32	13.49	-0.4
Cloud cover (%) Scotland	83.46	28.71	-1.71
Wind speed 10m (km/h) Scotland	13.01	6.69	0.56
Wind direction 10m (°) Scotland	202.53	91.4	-0.3
Is day in Scotland	0.52	0.5	-0.07
Shortwave radiation (W/m ²) Scotland	100.48	166.9	1.95
Direct radiation (W/m ²) Scotland	47.38	112.79	3.12
Temperature 2m (°C) St Fergus	9.01	4.73	0.07
Relative humidity 2m (%) St Fergus	81.92	11.0	-0.66
Dew point 2m (°C) St Fergus	5.95	4.78	-0.09
Apparent temperature (°C) St Fergus	5.77	5.99	0.2
Rain (mm) St Fergus	0.11	0.37	9.17
Pressure msl (hPa) St Fergus	1010.7	13.52	-0.42
Cloud cover (%) St Fergus	72.19	35.28	-0.91
Wind speed 10m (km/h) St Fergus	16.36	8.12	0.76
Wind direction 10m (°) St Fergus	208.5	86.44	-0.3
Is day in St Fergus	0.52	0.5	-0.07
Shortwave radiation (W/m ²) St Fergus	119.34	185.75	1.64
Direct radiation (W/m²) St Fergus	63.79	127.3	2.44
Temperature 2m (°C) Nybro	9.01	6.42	0.06
Relative humidity 2m (%) Nybro	81.24	14.15	-1.01
Dew point 2m (°C) Nybro	5.68	5.84	-0.25
Apparent temperature (°C) Nybro	5.77	7.72	0.21
Rain (mm) Nybro	0.11	0.39	7.45
Pressure msl (hPa) Nybro	1012.82	11.47	-0.4
Cloud cover (%) Nybro	69.51	37.7	-0.78
Wind speed 10m (km/h) Nybro	16.66	7.94	0.65
Wind direction 10m (°) Nybro	200.57	87.58	-0.42
Is day in Nybro	0.52	0.5	-0.08
Shortwave radiation (W/m ²) Nybro	119.51	189.52	1.71
Direct radiation (W/m²) Nybro	68.33	138.5	2.43
Temperature 2m (°C) Zeebrugge	11.51	5.82	0.12
Relative humidity 2m (%) Zeebrugge	78.64	12.51	-0.87
Dew point 2m (°C) Zeebrugge	7.7	5.3	-0.3
Apparent temperature (°C) Zeebrugge	8.49	7.32	0.27
Rain (mm) Zeebrugge	0.11	0.39	8.2
Pressure msl (hPa) Zeebrugge	1015.45	10.67	-0.5
Cloud cover (%) Zeebrugge	65.53	38.71	-0.59
Wind speed 10m (km/h) Zeebrugge	18.51	9.33	0.73
Wind direction 10m (°) Zeebrugge	191.08	95.36	-0.35
Is day in Zeebrugge	0.51	0.5	-0.06
Shortwave radiation (W/m ²) Zeebrugge	139.0	214.15	1.59
Direct radiation (W/m²) Zeebrugge	85.35	162.06	$\frac{1.55}{2.15}$
	00.00	102.00	۵.10

Table 2: Exhaustive list of all target and external variables (continuation)

Temperature 2m (°C) Belgium 78.18 15.91 -0.88	Table 2: Exhaustive list of all target and			
Relative humidity 2m (%) Belgium 78.18 15.91 -0.88 Dew point 2m (°C) Belgium 6.81 5.51 -0.35 Apparent temperature (°C) Belgium 8.08 8.13 0.26 Rain (mm) Belgium 0.1 0.38 8.82 Pressure msl (hPa) Belgium 1016.14 10.11 -0.48 Cloud cover (%) Belgium 15.69 8.04 0.85 Wind speed 10m (km/h) Belgium 15.69 8.04 0.85 Wind direction 10m (°) Belgium 191.03 89.71 -0.45 Is day in Belgium full 0.51 0.5 -0.04 Shortwave radiation (W/m²) Belgium 79.83 154.89 2.25 Temperature 2m (°C) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 197.24 <td< th=""><th></th><th>Mean</th><th>\mathbf{Std}</th><th>Skewness</th></td<>		Mean	\mathbf{Std}	Skewness
Dew point 2m (°C) Belgium 8.08 8.13 0.26		10.89	6.76	0.17
Apparent temperature (°C) Belgium 8.08 8.13 0.26 Rain (mm) Belgium 0.1 0.38 8.82 Pressure msl (hPa) Belgium 1016.14 10.11 -0.48 Cloud cover (%) Belgium 67.35 38.96 -0.7 Wind speed 10m (km/h) Belgium 15.69 8.04 0.85 Wind direction 10m (*) Belgium 191.03 89.71 -0.45 Is day in Belgium full 0.51 0.5 -0.04 Shortwave radiation (W/m²) Belgium 79.83 154.89 2.25 Temperature 2m (°C) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 80.34 11.58 -0.71 Dew point 2m (°C) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 10.11 0.38 8.49 Pressure msl (hPa) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 19.24		78.18	15.91	-0.88
Rain (mm) Belgium 0.1 0.38 8.82 Pressure msl (hPa) Belgium 1016.14 10.11 -0.48 Cloud cover (%) Belgium 67.35 38.96 -0.7 Wind speed 10m (km/h) Belgium 15.69 8.04 0.85 Wind direction 10m (°) Belgium 191.03 89.71 -0.45 Is day in Belgium full 0.51 0.5 -0.04 Shortwave radiation (W/m²) Belgium 79.83 154.89 2.25 Temperature 2m (°C) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 10.14 0.38 8.49 Pressure msl (hPa) Dornum 10.14 0.33 8.49 Pressure msl (hPa) Dornum 19.24 9.4 0.75 Wind speed 10m (km/h) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 19.72	Dew point 2m (°C) Belgium	6.81	5.51	-0.35
Pressure msl (hPa) Belgium 1016.14 10.11 -0.48	Apparent temperature (°C) Belgium	8.08	8.13	0.26
Cloud cover (%) Belgium	Rain (mm) Belgium	0.1	0.38	8.82
Wind speed 10m (km/h) Belgium 15.69 8.04 0.85 Wind direction 10m (*) Belgium 191.03 89.71 -0.45 Is day in Belgium full 0.51 0.5 -0.04 Shortwave radiation (W/m²) Belgium 135.11 208.31 1.61 Direct radiation (W/m²) Belgium 79.83 154.89 2.25 Temperature 2m (°C) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 80.34 11.58 -0.71 Dew point 2m (°C) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 0.11 0.38 8.49 Pressure msl (hPa) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 1014.33 10.92 -0.39 Wind speed 10m (km/h) Dornum 197.24 94.05 -0.33 Is day in Dornum 10.51 0.5 -0.06 Shortwave radiation (W/m²) Dor	Pressure msl (hPa) Belgium	1016.14	10.11	-0.48
Wind direction 10m (°) Belgium 191.03 89.71 -0.45 Is day in Belgium full 0.51 0.5 -0.04 Shortwave radiation (W/m²) Belgium 135.11 208.31 1.61 Direct radiation (W/m²) Belgium 79.83 154.89 2.25 Temperature 2m (°C) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 80.34 11.58 -0.71 Dew point 2m (°C) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 68.35 37.54 -0.72 Wind speed 10m (km/h) Dornum 197.24 94.05 -0.33 Is day in Dornum 197.24 94.05 -0.33 Is day in Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Emden 10.66	Cloud cover (%) Belgium	67.35	38.96	-0.7
Is day in Belgium full 0.51 0.5 -0.04	Wind speed 10m (km/h) Belgium	15.69	8.04	0.85
Shortwave radiation (W/m²) Belgium 135.11 208.31 1.61	Wind direction 10m (°) Belgium	191.03	89.71	-0.45
Direct radiation (W/m²) Belgium 79.83 154.89 2.25 Temperature 2m (°C) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 80.34 11.58 -0.71 Dew point 2m (°C) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 0.11 0.38 8.49 Pressure msl (hPa) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 68.35 37.54 -0.72 Wind speed 10m (km/h) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 180.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37<	Is day in Belgium full	0.51	0.5	-0.04
Temperature 2m (°C) Dornum 10.54 5.87 0.14 Relative humidity 2m (%) Dornum 80.34 11.58 -0.71 Dew point 2m (°C) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 0.11 0.38 8.49 Pressure msl (hPa) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 68.35 37.54 -0.72 Wind speed 10m (km/h) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 13.0 206.34 1.6 Direct radiation (W/m²) Dornum 13.0 206.34 1.6 Direct radiation (W/m²) Emden 10.66 6.16 0.17 Relative humidity 2m (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11	Shortwave radiation (W/m ²) Belgium	135.11	208.31	1.61
Relative humidity 2m (%) Dornum 80.34 11.58 -0.71 Dew point 2m (°C) Dornum 7.12 5.58 -0.18 Apparent temperature (°C) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 0.11 0.38 8.49 Pressure msl (hPa) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 68.35 37.54 -0.72 Wind speed 10m (km/h) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.3	Direct radiation (W/m ²) Belgium	79.83	154.89	2.25
Dew point 2m (°C) Dornum 7.12 5.58 -0.18	Temperature 2m (°C) Dornum	10.54	5.87	0.14
Apparent temperature (°C) Dornum 7.27 7.51 0.27 Rain (mm) Dornum 0.11 0.38 8.49 Pressure msl (hPa) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 68.35 37.54 -0.72 Wind speed 10m (km/h) Dornum 197.24 9.4 0.75 Wind direction 10m (°) Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 16.97 8.41 <td>Relative humidity 2m (%) Dornum</td> <td>80.34</td> <td>11.58</td> <td>-0.71</td>	Relative humidity 2m (%) Dornum	80.34	11.58	-0.71
Rain (mm) Dornum 0.11 0.38 8.49 Pressure msl (hPa) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 68.35 37.54 -0.72 Wind speed 10m (km/h) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21	Dew point 2m (°C) Dornum	7.12	5.58	-0.18
Pressure msl (hPa) Dornum 1014.33 10.92 -0.39 Cloud cover (%) Dornum 68.35 37.54 -0.72 Wind speed 10m (km/h) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5	Apparent temperature (°C) Dornum	7.27	7.51	0.27
Cloud cover (%) Dornum 68.35 37.54 -0.72 Wind speed 10m (km/h) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 <	Rain (mm) Dornum	0.11	0.38	8.49
Wind speed 10m (km/h) Dornum 19.24 9.4 0.75 Wind direction 10m (°) Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0	Pressure msl (hPa) Dornum	1014.33	10.92	-0.39
Wind direction 10m (°) Dornum 197.24 94.05 -0.33 Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.68 7.69 0.29 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6	Cloud cover (%) Dornum	68.35	37.54	-0.72
Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52	Wind speed 10m (km/h) Dornum	19.24	9.4	0.75
Is day in Dornum 0.51 0.5 -0.06 Shortwave radiation (W/m²) Dornum 133.0 206.34 1.6 Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52	Wind direction 10m (°) Dornum	197.24	94.05	-0.33
Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 5.83 <		0.51	0.5	-0.06
Direct radiation (W/m²) Dornum 80.25 153.47 2.19 Temperature 2m (°C) Emden 10.66 6.16 0.17 Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 5.83 <	Shortwave radiation (W/m ²) Dornum	133.0	206.34	1.6
Relative humidity 2m (%) Emden 80.1 12.79 -0.83 Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 </td <td></td> <td>80.25</td> <td>153.47</td> <td>2.19</td>		80.25	153.47	2.19
Dew point 2m (°C) Emden 7.13 5.56 -0.19 Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66<	Temperature 2m (°C) Emden	10.66	6.16	0.17
Apparent temperature (°C) Emden 7.68 7.69 0.29 Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind direction 10m (°) Germany 11.79 <	Relative humidity 2m (%) Emden	80.1	12.79	-0.83
Rain (mm) Emden 0.11 0.37 7.89 Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 0.51 <td< td=""><td>Dew point 2m (°C) Emden</td><td>7.13</td><td>5.56</td><td>-0.19</td></td<>	Dew point 2m (°C) Emden	7.13	5.56	-0.19
Pressure msl (hPa) Emden 1014.5 10.85 -0.39 Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 0.51 0.5 -0.04	Apparent temperature (°C) Emden	7.68	7.69	0.29
Cloud cover (%) Emden 69.03 37.36 -0.76 Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Rain (mm) Emden	0.11	0.37	7.89
Wind speed 10m (km/h) Emden 16.97 8.41 0.74 Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Pressure msl (hPa) Emden	1014.5	10.85	-0.39
Wind direction 10m (°) Emden 196.52 93.21 -0.33 Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Cloud cover (%) Emden	69.03	37.36	-0.76
Is day in Emden 0.51 0.5 -0.05 Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Wind speed 10m (km/h) Emden	16.97	8.41	0.74
Shortwave radiation (W/m²) Emden 129.28 200.55 1.63 Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature $2m$ (°C) Germany 8.6 7.54 0.14 Relative humidity $2m$ (%) Germany 77.52 16.66 -0.85 Dew point $2m$ (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed $10m$ (km/h) Germany 11.79 6.11 0.82 Wind direction $10m$ (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Wind direction 10m (°) Emden	196.52	93.21	-0.33
Direct radiation (W/m²) Emden 75.0 146.36 2.29 Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Is day in Emden	0.51	0.5	-0.05
Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Shortwave radiation (W/m ²) Emden	129.28	200.55	1.63
Temperature 2m (°C) Germany 8.6 7.54 0.14 Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Direct radiation (W/m ²) Emden	75.0	146.36	2.29
Relative humidity 2m (%) Germany 77.52 16.66 -0.85 Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04		8.6	7.54	0.14
Dew point 2m (°C) Germany 4.42 6.1 -0.23 Apparent temperature (°C) Germany 5.83 8.85 0.2 Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04		77.52	16.66	-0.85
Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04		4.42	6.1	-0.23
Rain (mm) Germany 0.08 0.32 11.05 Pressure msl (hPa) Germany 1016.47 9.59 -0.27 Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Apparent temperature (°C) Germany	5.83	8.85	0.2
Cloud cover (%) Germany 69.9 37.66 -0.83 Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04		0.08	0.32	11.05
Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04		1016.47	9.59	
Wind speed 10m (km/h) Germany 11.79 6.11 0.82 Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04	Cloud cover (%) Germany	69.9	37.66	-0.83
Wind direction 10m (°) Germany 201.91 87.98 -0.39 Is day in Germany 0.51 0.5 -0.04		11.79	6.11	0.82
Is day in Germany 0.51 0.5 -0.04		201.91	87.98	-0.39
	* * *		0.5	
	Shortwave radiation (W/m ²) Germany	133.75		
Direct radiation (W/m^2) Germany 77.66 152.74 2.26	, , ,	77.66	152.74	2.26

Table 3: Exhaustive list of all target and external variables (continuation)

Table 3: Exhaustive list of all target and ex			
Parameter	Mean	Std	Skewness
Temperature 2m (°C) Dunkerque	11.64	5.63	0.11
Relative humidity 2m (%) Dunkerque	78.9	12.21	-0.81
Dew point 2m (°C) Dunkerque	7.88	5.13	-0.35
Apparent temperature (°C) Dunkerque	8.71	7.03	0.25
Rain (mm) Dunkerque	0.1	0.38	9.5
Pressure msl (hPa) Dunkerque	1015.56	10.72	-0.54
Cloud cover (%) Dunkerque	64.7	38.89	-0.56
Wind speed 10m (km/h) Dunkerque	17.88	9.1	0.75
Wind direction 10m (°) Dunkerque	186.16	92.49	-0.34
Is day in Dunkerque	0.52	0.5	-0.06
Shortwave radiation (W/m ²) Dunkerque	140.79	215.04	1.56
Direct radiation (W/m ²) Dunkerque	86.99	162.62	2.1
Temperature 2m (°C) France	12.62	7.32	0.23
Relative humidity 2m (%) France	74.91	16.93	-0.74
Dew point 2m (°C) France	7.75	5.53	-0.29
Apparent temperature (°C) France	10.73	8.73	0.25
Rain (mm) France	0.1	0.41	10.61
Pressure msl (hPa) France	1017.67	8.53	-0.47
Cloud cover (%) France	62.89	40.37	-0.5
Wind speed 10m (km/h) France	11.12	5.58	0.98
Wind direction 10m (°) France	185.1	96.49	-0.24
Is day in France	0.51	0.5	-0.05
Shortwave radiation (W/m ²) France	151.18	227.65	1.52
Direct radiation (W/m²) France	93.75	174.59	2.08
Temperature 2m (°C) Birmingham	10.29	5.91	0.2
Relative humidity 2m (%) Birmingham	80.23	14.05	-0.9
Dew point 2m (°C) Birmingham	6.73	4.85	-0.19
Apparent temperature (°C) Birmingham	7.21	7.04	0.32
Rain (mm) Birmingham	0.09	0.37	12.39
Pressure msl (hPa) Birmingham	1014.28	12.01	-0.51
Cloud cover (%) Birmingham	69.57	37.47	-0.79
Wind speed 10m (km/h) Birmingham	16.67	8.22	0.68
Wind direction 10m (°) Birmingham	197.72	91.57	-0.5
Is day in Birmingham	0.51	0.5	-0.06
Shortwave radiation (W/m ²) Birmingham	124.76	191.97	1.66
Direct radiation (W/m²) Birmingham	68.22	136.56	2.49
Temperature 2m (°C) Easington	10.45	5.18	0.1
Relative humidity 2m (%) Easington	80.78	11.13	-0.78
Dew point 2m (°C) Easington	7.12	4.81	-0.14
Apparent temperature (°C) Easington	7.1	6.45	0.21
Rain (mm) Easington	0.08	0.33	8.36
Pressure msl (hPa) Easington	1013.5	12.33	-0.48
Cloud cover (%) Easington	67.75	37.96	-0.71
Wind speed 10m (km/h) Easington	19.17	9.29	0.62
Wind direction 10m (°) Easington	194.39	89.95	-0.43
Is day in Easington	0.51	0.5	-0.46
Shortwave radiation (W/m ²) Easington	133.59	202.92	1.57
Direct radiation (W/m²) Easington	75.57	145.9	2.29
PHOOF INGINION (W/III) Dashiguon	10.01	140.0	4.40

Table 4: Exhaustive list of all target and external variables (continuation)

Parameter	Mean	Std	Skewness
DK	53.48	50.75	1.85
DE	52.63	50.72	1.88
FR	46.3	39.13	1.46
BE	47.85	41.85	1.62
UK	42.53	35.14	1.72
Mean	48.56	42.86	1.66
DK rel	1.07	0.09	2.42
DE rel	1.04	0.09	2.88
FR rel	0.97	0.05	-2.86
BE rel	0.99	0.05	-2.32
UK rel	0.93	0.14	-2.26
DK rel pct	7.03	9.25	2.42
DE rel pct	4.22	8.99	2.88
FR rel pct	-3.15	5.44	-2.86
BE rel pct	-1.44	5.41	-2.32
UK rel pct	-6.66	13.64	-2.26
DK is best	0.65	0.47	-0.64
DE is best	0.13	0.33	2.19
FR is best	0.01	0.08	11.5
BE is best	0.01	0.1	9.65
UK is best	0.2	0.39	1.5
Volume rate Easington hourly	51.55	22.55	-0.73
Volume rate St Fergus hourly	5.25	7.08	2.38
Volume rate Denmark hourly	9.19	10.22	0.73
Volume rate Belgium hourly	42.01	3.94	-5.18
Volume rate France hourly	44.6	10.13	-2.04
Volume rate Germany hourly	138.15	15.37	-1.86
Year	21.78	1.31	0.12
Hour sin	0.0	0.71	-0.0
Hour cos	-0.0	0.71	0.0
Dow sin	-0.0	0.71	0.0
Dow cos	-0.0	0.71	0.0
Month sin	0.06	0.7	-0.15
Month cos	-0.02	0.71	0.04
Is holiday	0.04	0.18	5.05
Nominations Easington [MSM3]	51.21	22.82	-0.78
Nominations St. Fergus [MSM3]	4.86	7.12	2.3
Nominations Denmark [MSM3]	8.06	10.96	0.72
Nominations Belgium [MSM3]	41.89	4.07	-5.7
Nominations France [MSM3]	44.48	10.15	-2.2
Nominations Germany [MSM3]	138.35	15.21	-1.88