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	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 daytime 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 daytime 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	-0.4	
Wind speed 10m (km/h) Nybro	16.66	7.94	0.65	
Wind direction 10m (°) Nybro	200.57	87.58	-0.42	
Is daytime in Nybro	0.52	0.5	-0.42	
Shortwave radiation (W/m ²) Nybro			1.71	
Direct radiation (W/m^2) Nybro	119.51	189.52		
	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 daytime in Zeebrugge	0.51	0.5	-0.06	
Shortwave radiation (W/m ²) Zeebrugge	139.0	214.15	1.59	
Direct radiation (W/m ²) Zeebrugge	85.35	162.06	2.15	

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

Table 2: Exhaustive list of all target and			
Parameter	Mean	\mathbf{Std}	Skewness
Temperature 2m (°C) Belgium	10.89	6.76	0.17
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	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 daytime in Belgium full	0.51	0.5	-0.04
Shortwave radiation (W/m ²) Belgium	135.11	208.31	1.61
Direct radiation (W/m ²) 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 daytime in Dornum	0.51	0.5	-0.06
Shortwave radiation (W/m ²) 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 daytime in Emden	0.51	0.5	-0.05
Shortwave radiation (W/m ²) Emden	129.28	200.55	1.63
Direct radiation (W/m ²) 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 daytime in Germany	0.51	0.5	-0.04
Shortwave radiation (W/m^2) Germany	133.75	207.06	1.6
Direct radiation (W/m^2) Germany	77.66	152.74	2.26
Ziros radiation (11/111) definiting	11.00	102.11	

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

Parameter Mean Std Skewness Temperature 2m (°C) Dunkerque 78.9 12.21 -0.81 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 64.7 38.89 -0.56 Cloud cover (%) Dunkerque 64.7 38.89 -0.56 Wind speed 10m (km/h) Dunkerque 186.16 92.49 -0.34 Is daytime in Dunkerque 186.19 16.93 -0.74 Direct radiation (W/m²) Dunkerque 74.91 16.93 -0.74 Dew point 2m (°C) France 74.91	Table 3: Exhaustive list of all target and e			
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 17.88 9.1 0.75 Wind speed 10m (km/h) Dunkerque 17.88 9.1 0.75 Wind direction 10m (°) Dunkerque 186.16 92.49 -0.34 Is daytime in Dunkerque 0.52 0.5 -0.06 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) Dunkerque 86.99 162.62 2.1 Temperature 2m (°C) France 12.62 7.32 0.23 Relative humidity 2m (°C) France 74.91 16.93 -0.74 Dew point 2m (°C) France 10.73 8.73 0.25 Rain (mm) France 10.1 0.41 10.61 Pressure msl (hPa) France	Parameter	Mean	$\operatorname{\mathbf{Std}}$	Skewness
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 daytime in Dunkerque 186.16 92.49 -0.34 Is daytime in Dunkerque 186.16 92.49 -0.34 Is daytime in Dunkerque 140.79 215.04 1.56 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) Dunkerque 86.99 162.62 2.1 Temperature 2m (°C) 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				
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 daytime in Dunkerque 140.79 215.04 1.56 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) 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 10.767 8.53 -0.47 Cloud cover (%) France	v v, –			
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 daytime in Dunkerque 0.52 0.5 -0.06 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) 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 77.75 5.53 -0.29 Apparent temperature (°C) France 10.73 8.73 0.25 Rain (mm) France 10.1 0.41 10.61 Pressure msl (hPa) France 1017.67 8.53 -0.47 Cloud cover (%) France 185.1 96.49 -0.24 Is daytime in France 185.1 </td <td></td> <td></td> <td></td> <td></td>				
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 daytime in Dunkerque 0.52 0.5 -0.06 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) 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 77.75 5.53 -0.29 Apparent temperature (°C) France 10.73 8.73 0.25 Rain (mm) 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 daytime in France	1	8.71		0.25
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 daytime in Dunkerque 0.52 0.5 -0.06 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) 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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) France<	Rain (mm) Dunkerque	0.1	0.38	9.5
Wind speed 10m (km/h) Dunkerque 17.88 9.1 0.75 Wind direction 10m (°) Dunkerque 186.16 92.49 -0.34 Is daytime in Dunkerque 0.52 0.5 -0.06 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) 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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) France 151.18 227.65 1.52 Direct radiation (W/m²)	Pressure msl (hPa) Dunkerque	1015.56	10.72	-0.54
Wind direction 10m (°) Dunkerque 186.16 92.49 -0.34 Is daytime in Dunkerque 0.52 0.5 -0.06 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) 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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) France 151.18 227.65 1.52 Direct radiation (W/m²) France 93.75 174.59 2.08 Temperature 2m (°C) Bi	Cloud cover (%) Dunkerque	64.7	38.89	-0.56
Is daytime in Dunkerque 0.52 0.5 -0.06 Shortwave radiation (W/m²) Dunkerque 140.79 215.04 1.56 Direct radiation (W/m²) 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 10 (°) France 185.1 96.49 -0.24 Is daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) France 151.18 227.65 1.52 Direct radiation (W/m²) France 93.75 174.59 2.08 Temperature 2m (°C) Birmingham 10.29	Wind speed 10m (km/h) Dunkerque	17.88	9.1	0.75
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Wind direction 10m (°) Dunkerque	186.16	92.49	-0.34
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Is daytime in Dunkerque	0.52	0.5	-0.06
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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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 <td>Shortwave radiation (W/m²) Dunkerque</td> <td>140.79</td> <td>215.04</td> <td>1.56</td>	Shortwave radiation (W/m ²) Dunkerque	140.79	215.04	1.56
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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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<	Direct radiation (W/m ²) Dunkerque	86.99	162.62	2.1
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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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	Temperature 2m (°C) France	12.62	7.32	0.23
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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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 direction 10m (°) Bir	Relative humidity 2m (%) France	74.91	16.93	-0.74
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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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 (°) Bir	Dew point 2m (°C) France	7.75	5.53	-0.29
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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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	Apparent temperature (°C) France	10.73	8.73	0.25
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 daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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		0.1	0.41	10.61
Wind speed 10m (km/h) France 11.12 5.58 0.98 Wind direction 10m (°) France 185.1 96.49 -0.24 Is daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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	· · · ·	1017.67	8.53	-0.47
Wind direction 10m (°) France 185.1 96.49 -0.24 Is daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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	Cloud cover (%) France	62.89	40.37	-0.5
Wind direction 10m (°) France 185.1 96.49 -0.24 Is daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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	Wind speed 10m (km/h) France	11.12	5.58	0.98
Is daytime in France 0.51 0.5 -0.05 Shortwave radiation (W/m²) 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	_ , ,	185.1	96.49	-0.24
Shortwave radiation (W/m²) 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		0.51	0.5	-0.05
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		151.18	227.65	1.52
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	Direct radiation (W/m²) France	93.75	174.59	2.08
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		10.29	5.91	0.2
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	_ · · · /	80.23	14.05	-0.9
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		6.73	4.85	-0.19
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		7.21	7.04	0.32
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		0.09	0.37	12.39
Wind speed 10m (km/h) Birmingham 16.67 8.22 0.68 Wind direction 10m (°) Birmingham 197.72 91.57 -0.5		1014.28	12.01	-0.51
Wind direction 10m (°) Birmingham 197.72 91.57 -0.5	Cloud cover (%) Birmingham	69.57	37.47	-0.79
	Wind speed 10m (km/h) Birmingham	16.67	8.22	0.68
Is daytime in Birmingham 0.51 0.5 -0.06	Wind direction 10m (°) Birmingham	197.72	91.57	-0.5
	Is daytime in Birmingham	0.51	0.5	-0.06
Shortwave radiation (W/m ²) Birmingham 124.76 191.97 1.66	Shortwave radiation (W/m ²) Birmingham	124.76	191.97	1.66
Direct radiation (W/m^2) Birmingham 68.22 136.56 2.49	Direct radiation (W/m ²) Birmingham	68.22	136.56	2.49
Temperature 2m (°C) Easington 10.45 5.18 0.1	Temperature 2m (°C) Easington			0.1
Relative humidity 2m (%) Easington 80.78 11.13 -0.78	_ · · · · · -			-0.78
Dew point 2m (°C) Easington 7.12 4.81 -0.14				
Apparent temperature (°C) Easington 7.1 6.45 0.21		7.1		
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 daytime in Easington 0.51 0.5 -0.06				
Shortwave radiation (W/m^2) Easington 133.59 202.92 1.57	·			
Direct radiation (W/m^2) Easington 75.57 145.9 2.29	· · · · · · · · · · · · · · · · · · ·			

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