

Descriptor	Data type	Location & no. of sites	Assumption & metric	Magnitude	Implied 90 % interval of IAV around “average” value	Reference
Annual mean wind speed	Observations at 10 m a.g.l.	Ireland; five stations	Gaussian distribution; σ to describe dispersion	4.7 % to 6.4 %	0.89 to 1.1	Raftery et al. (1998)
Annual mean wind speed	Observations at 10 m a.g.l.	Approx. 30 (site details not given)	Gaussian distribution; σ to describe dispersion	Approx. 6 %	0.9 to 1.1	Raftery et al. (1999)
Annual mean wind speed	Observations at 10 m a.g.l.	16 stations in Ireland (data duration up to 13 years)	Gaussian distribution; σ to describe dispersion	4.4 %–6.9 %	0.89 to 1.1	Pullinger et al. (2017)
Annual mean wind speed and capacity factors derived from wind speed	Observations at 10 m a.g.l. extrapolated to nominal WT hub height of between 60 and 100 m and a nominal power curve fitted to generate capacity factors	Six sites in Scotland (durations of 13 to 43 years)	Dispersion described as difference in X from one year to the next divided by mean	Δ mean wind speed at 10 m: 10 %–20 % (mean = 15 %) Δ mean CF: 11 %	Qualitative remarks imply approx. 0.85–1.15	Früh (2013)
Annual mean wind speed	NARR interpolated to 80 m	1979–2014	Max % increase or decrease in wind speed anomaly from 35-year mean	Absolute range in different grid cells: 5 %–40 %	NA	Hamlington et al. (2015)
Annual wind indices	Reanalysis (NCEP–NCAR and ECMWF) 10 m a.g.l.; spatially aggregated country	1960–2001	Gaussian distribution; σ to describe dispersion	8 %–12 %	0.80 to 1.2	Pryor et al. (2006)
Annual wind indices	Spatial composites of 10 m observations, UK	Mostly 29 years	Gaussian distribution; σ to describe dispersion	3.1 %–7 %	0.88–1.15	Watson et al. (2015)
Annual mean wind speed at approx. 83 m a.g.l.	WRF output at 12 by 12 km grid cells over eastern North America	2002–2016	Median and interquartile range	5.5 %; 5.2 %	0.95–1.05; 0.94–1.06	This study
Annual wind indices at approx. 83 m a.g.l.	WRF output at 12 by 12 km grid cells over eastern North America	2002–2016	Median and interquartile range	14 %; 11 %	0.85–1.15; 0.83–1.17	This study
Annual AEP derived by applying a GE 1.5 MW power curve to 10 min output	WRF output at 12 by 12 km grid cells over eastern North America	2002–2016	Median and interquartile range	4.9 %; 5.9 %	0.95–1.05; 0.93–1.07	This study