

Appendix 10.2: Methodology for calculating from hub height wind speed to standardised 10m height wind speed.

Supplementary Guidance Note 4: Wind Shear Equations

a) Standardising from hub height (hh) to 10m

$$v_{10} = v_{hh} * (\text{LN}(10/0.05)/\text{LN}(hh/0.05)) \quad [\text{EQUATION 1}]$$

v_{10} = Standardised 10m wind speed

v_{hh} = Hub height wind speed Hub height (hh) = 78.3m

0.05 = Standard ground roughness length which remains constant (fixed)