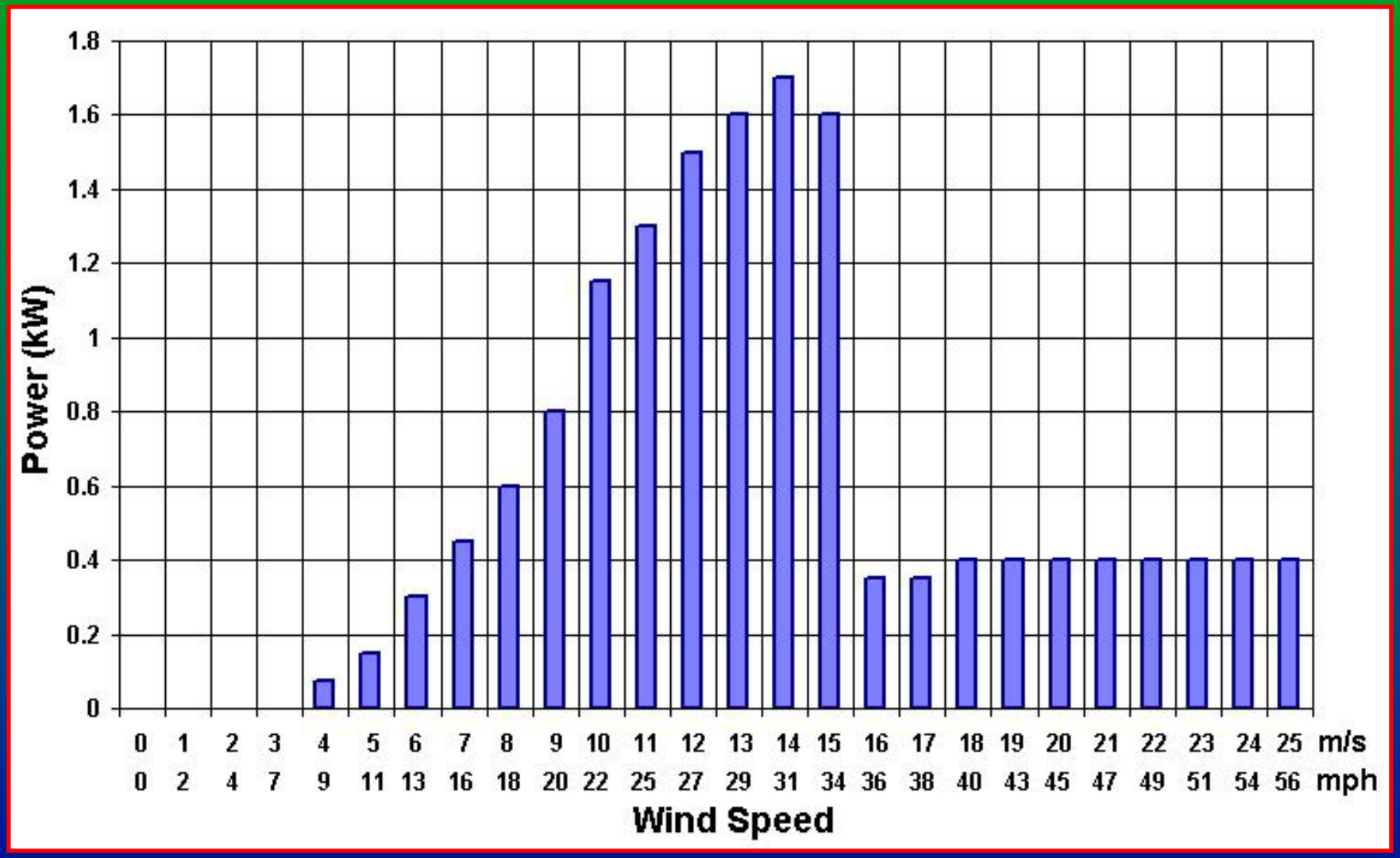
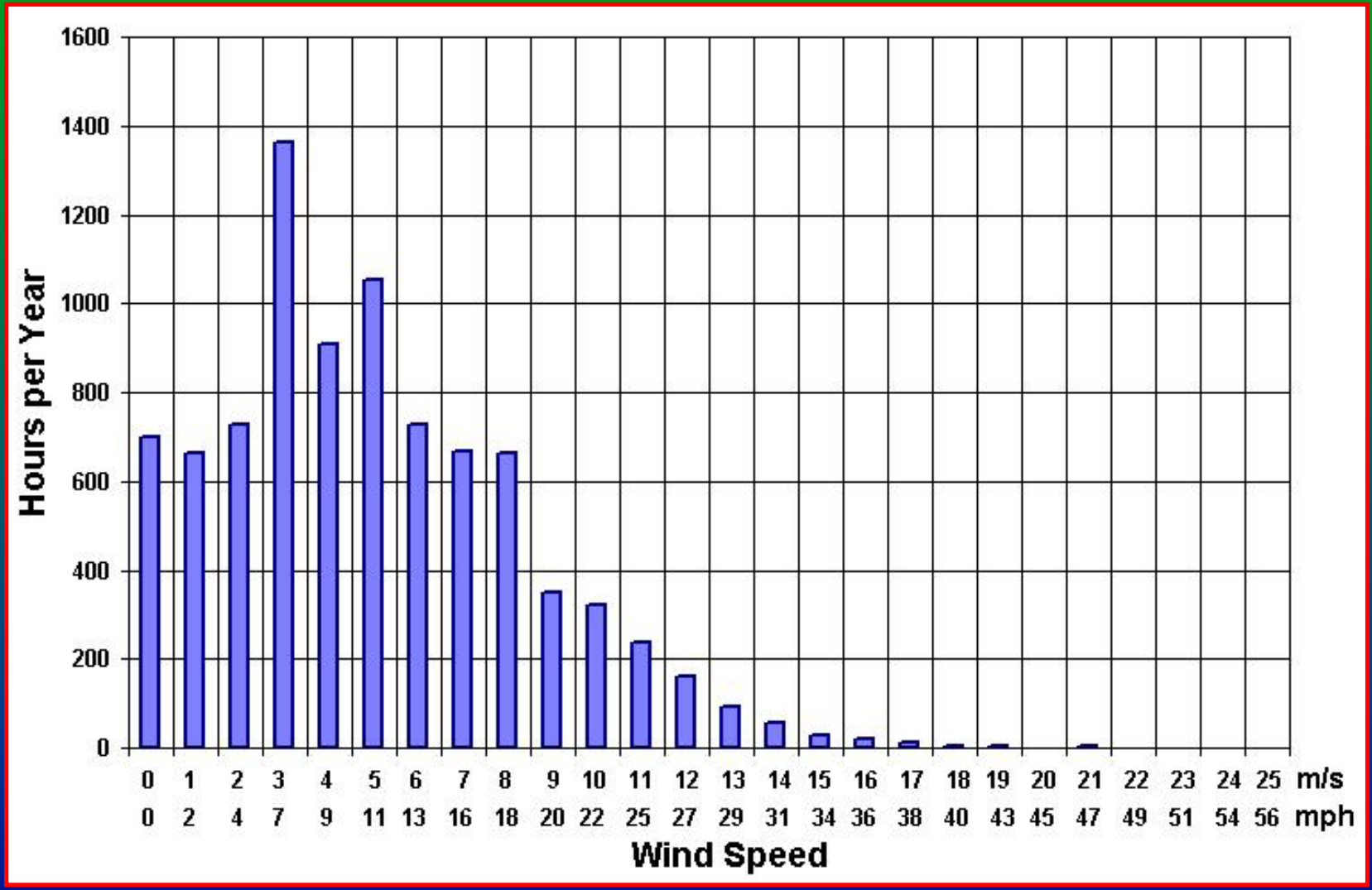
Wind Turbine Power Curve

Bergey 1500 (manufacturer's data)



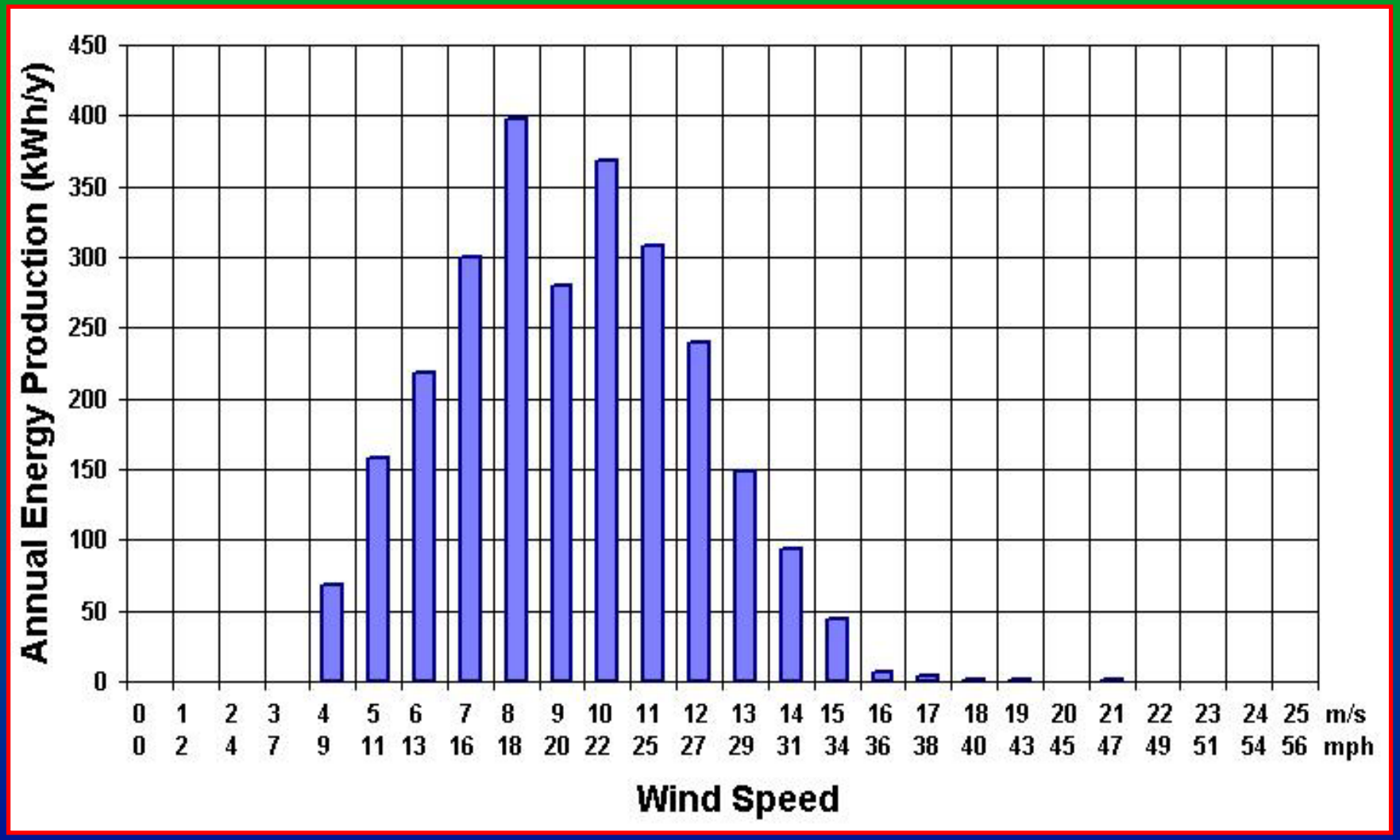
Wind Speed Frequency of Occurrence

Annual Average Wind Speed: 11 mph (5 m/s)

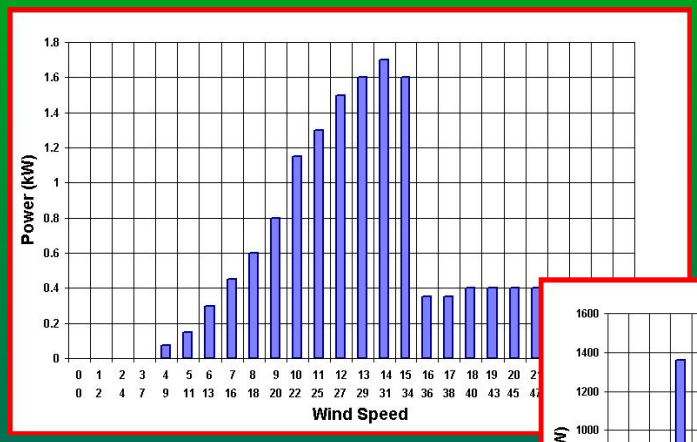


Annual Energy Production: 2,600 kWh/y

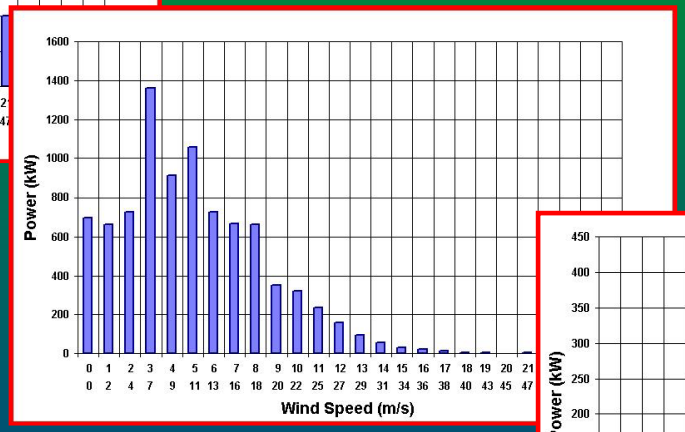
Bergey 1500 @ 11 mph (5 m/s) average wind speed



Estimation of Annual Energy Production

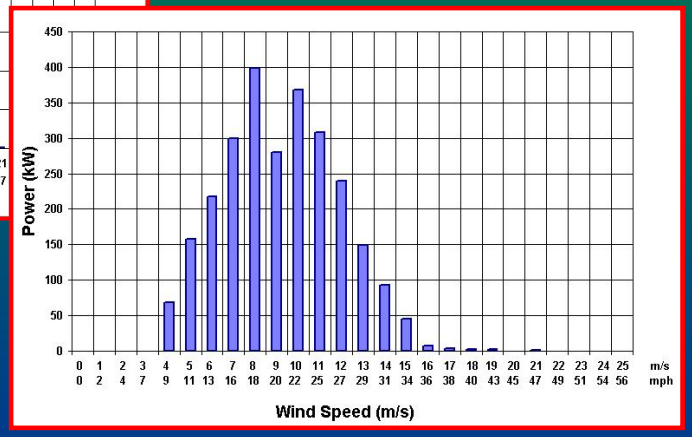


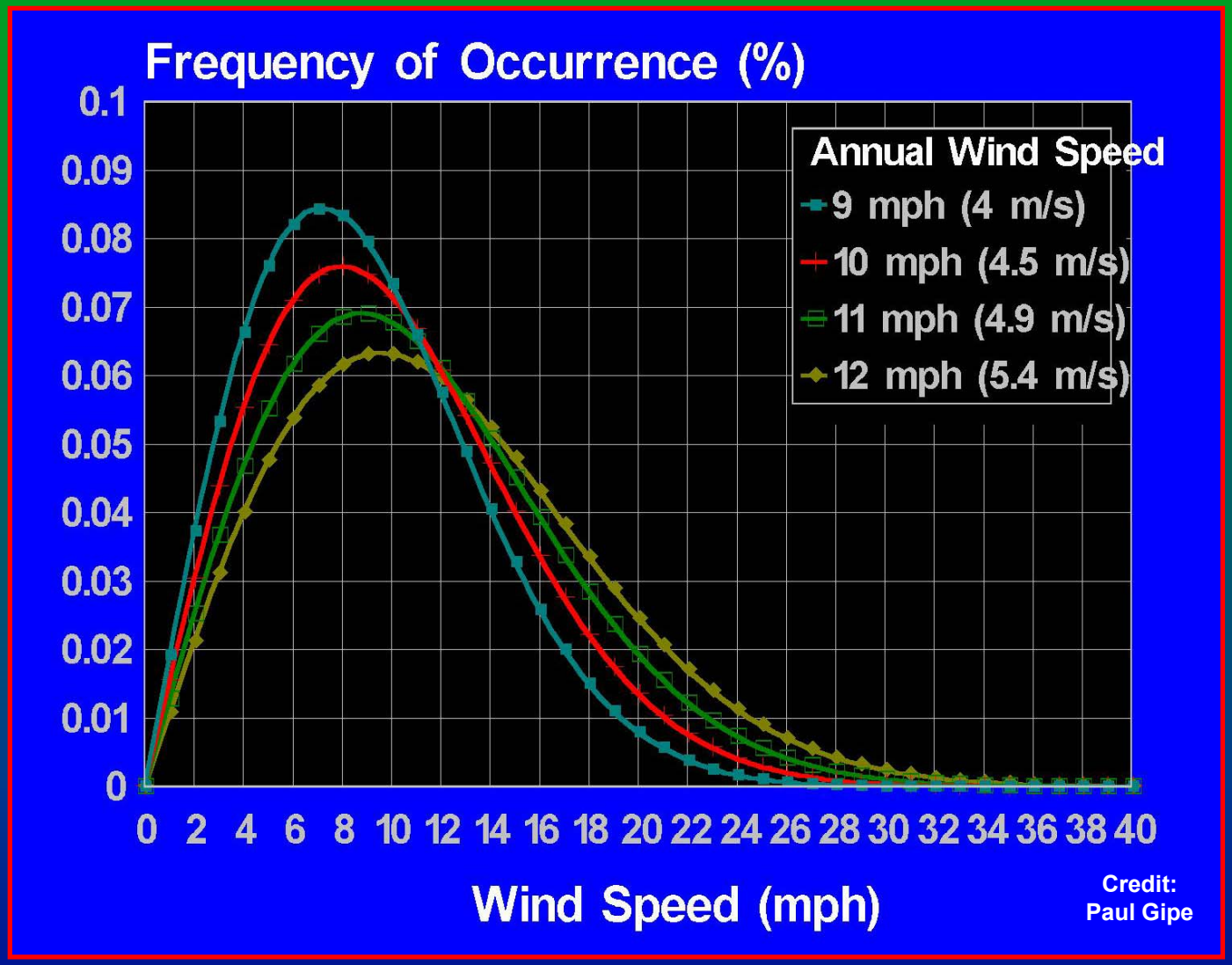
Power Curve



Frequency of Occurrence

(Rayleigh Distribution)



Annual Energy Production

Rayleigh Distribution of Wind Speed