Power Curve Working Group (PCWG) & Consortium For Advancement of Remote Sensing (CFARS) Join Forces to Tackle Future of Wind Energy

King Langley, UK, Release: November 17, 2019. *For Immediate Release*

PCWG and CFARS have announced today their planned merger which will streamline their efforts to tackle future wind energy technical challenges. The combined group will focus on promoting the industry adoption of remote sensing (LiDAR & SoDAR) measurements and the prediction of wind turbine performance using this data. Moving forward the two groups will be operating under the CFARS banner.

"The merger of our activities was a natural evolution as the Power Curve Working Group is now at a cross roads. The upcoming publication of a paper summarizing 7 years of effort modelling turbine performance using predominantly traditional [meteorological mast] measurements, it made sense to start focusing on the future" explain Taylor Geer (DNV-GL) PCWG lead.

Peter Stuart (RES) founding member of the PCWG says: "Wind Turbines of Tomorrow will have even higher hub heights and even larger rotors than those of Today. Turbine performance (power curve) modelling and measurement will require innovative analysis techniques such as machine learning which can make full use of all the measurement levels offered by LiDARs and remote sensing. I believe the adoption of LiDARs and remote sensing will be driven by the imperative that these measurements are essential for accurately

predicting the output of large wind turbines across the broad range of real-world conditions."

The Power Curve Working Group will be operating under the science workstream of CFARS lead by Alexandra St.Pe (E.On Renewables).

"Our members have been asking to tackle challenges associated with power curve measurements and help them defining innovative ways to use Remote Sensing in power output prediction. This merger is a real opportunity to leverage CFARS energy and momentum with the extensive experience of the PCWG. The PCWG Sharing Initiative PCWG-Share-X is one key activity which we intend to carry over into CFARs, so look out for PCWH-Share-4 in 2020!" Says CFARS Lead Philippe Pontbriand (RES)

The Power Curve Working has been a key thought leader in the wind industry for the past 7 years and will complement perfectly CFARS activities on Complex Flow measurement and Turbulence intensity both in Europe and in North Americas. CFARS is committed to PCWG mission to keep and future findings/discovery public and open source.

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