



C. P. (Sandy) Butterfield, Boulder Wind Consulting, Founder and President

Sandy has been an innovator and leader in wind energy his entire career. Prior to founding Boulder Wind consulting Sandy co-founded Boulder Wind Power, a startup company that developed an innovative direct drive generator technology. He led Boulder Wind Power through its formative stages as CEO, helping to raise \$48million to develop its radical direct drive technology. Prior to that he spent over 24 years at the National Renewable Energy Laboratory (NREL), most recently as Chief Engineer at NREL's National Wind Test Center and leader of the Gearbox Reliability Collaborative. Prior to NREL he co-founded ESI, a wind turbine manufacturing company in 1980. His work at NREL included aerodynamics research, testing, design reviews, contract management, manager of the applied research program and leader of the certification / standards program.

Sandy was chair of IEC TC88 and is currently Chairman of IECRE the IEC Renewable Energy Conformity Assessment System (www.IECRE.Org). He still serves on several IEC international standards committees.