

Developing renewable energy systems using ModeFrontier

Cassio Giulio, Persiani Alessandro, Picinich Stefano

Department of Engineering and Architecture, University of Trieste

The design and testing of new devices can be very difficult and time consuming. It is always difficult to combine requested precision with available time. ModeFrontier can be very useful in speeding up the design procedure in every step of the process. In this article two different applications of this philosophy will be presented. The first regards the first step of the design of a 3 MW wind turbine. The second example regards the exploration of the design space of a combustor for TPV application using a simplified model.