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**Distributed Control of Large-scale
Offshore Wind Farms**







Courtesy Vestas Wind Systems A/S

A photograph of a wind farm with several white wind turbines on a grassy hillside under a clear blue sky. Two white birds are flying in the upper left. Overlaid on the image are several thin yellow lines that form a network, connecting the turbines and extending across the scene. The right side of the image is partially obscured by a dark blue triangular shape containing white text.

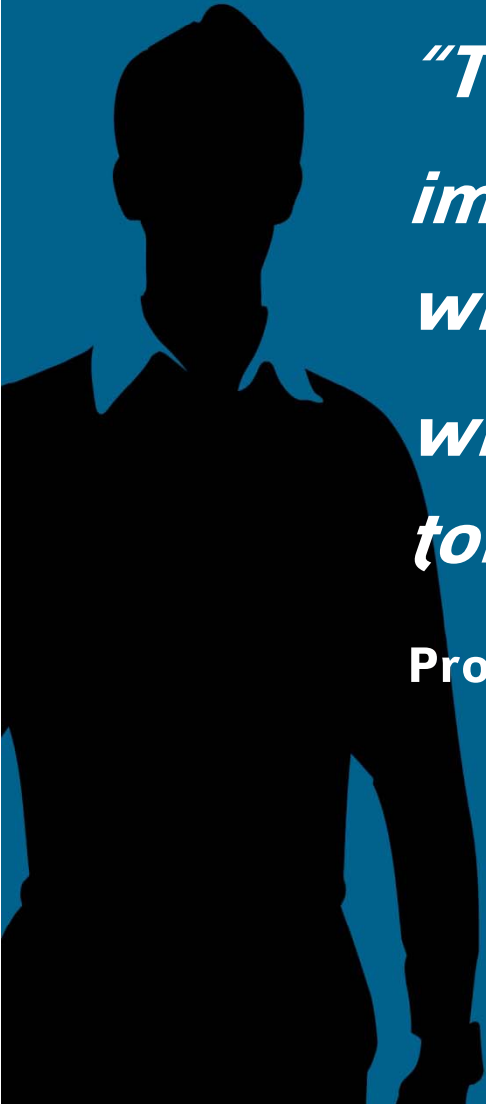
More flexible wind farms – cheaper electricity



Real-time predictions of wind flows in wind farms



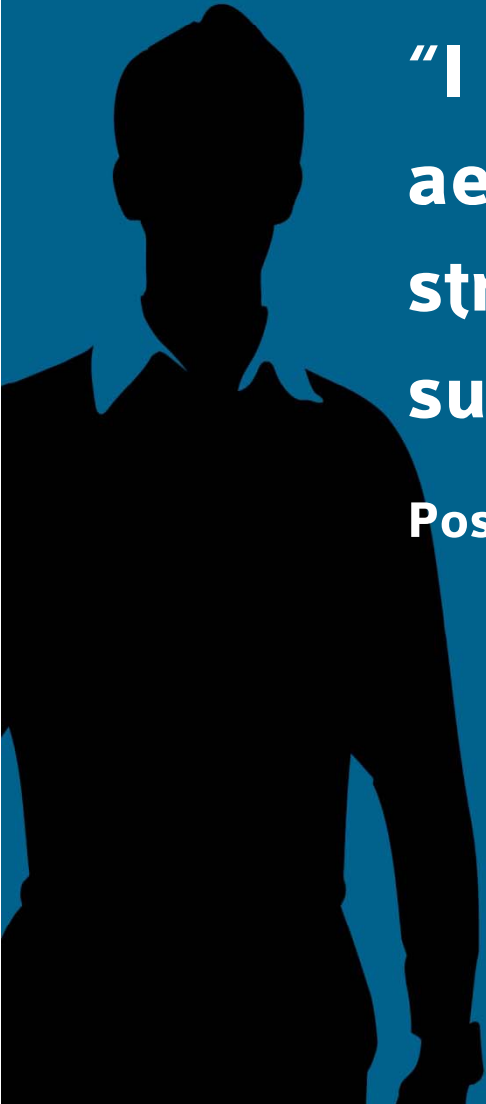
Energy efficiency:
minimize
structural loads
maximize
power quality



“This project will make an important contribution to the field of wind energy, which undoubtedly will play a big role in meeting tomorrow’s energy demands.”

Professor Thomas Bak, aeolus





**“I am proud of being a part of the
aeolus team because our research
strengthens the whole notion of
sustainable energy .”**

Post doc Mohsen Soltani, aeolus



Structural loads

