

Advanced integrated supervisory and wind turbine control for optimal operation of large Wind Power Plants

Title: Dissemination and communication plan and annual reports on the dissemination and communication activities

Deliverable no.: 5.6

Delivery date: 21.12.2018

Lead beneficiary: DTU Wind Energy

Dissemination level: Public



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No. 727680



Author(s) information (alphabetical):				
Name	Organisation	Email		
Gregor Giebel	DTU Wind Energy	grgi@dtu.dk		

Acknowledgements/Contributions:			
Name	Name	Name	

Document information

Version	Date	Description			
			Prepared by	Reviewed by	Approved by
1	21.12.2 018		Gregor Giebel	-	Gregor Giebel

Definitions



TABLE OF CONTENTS

Executi	ve summary	4
	nination and Communication 2018	
1.1	Dissemination Activities	4
1.2	Communication Activities	4
Dissem	nination and Communication Plan 2019	. 5
2.1 l	Jpcoming Dissemination Activities	. 5
221	Incoming Communication Activities	5



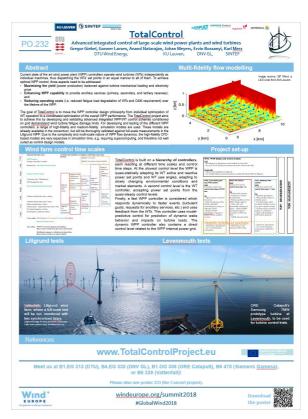
EXECUTIVE SUMMARY

This report details the communication and dissemination activities of the past year, and shows the plans for the coming year. In 2018, we produced 5 conference activities and the external and internal websites. In 2019, the production will be stepped up, as the activities reach a more mature stage.

DISSEMINATION AND COMMUNICATION 2018

1.1 DISSEMINATION ACTIVITIES

On all major conferences where we go, we hand in an abstract for an overview poster for TotalControl. It usually gets accepted. The first major conference during the project period was the Global Wind Summit at Hamburg, 25-28 September 2018. The poster is shown here.



Additionally, we had several other publications on two further conferences. Generally, all publications are mentioned on our website's publications archive.

Munters, Wim & Johan Meyers

A data-driven flow model for wind-farm control based on Koopman mode decomposition of large-eddy simulations. 71st Annual meeting of the American Physical Society Division of Fluid Dynamic, Atlanta (US), 18-20 November 2018

Bossanyi, Ervin

Combining induction control and wake steering for wind farm energy and fatigue loads optimisation - *Torque 2018*

Munters, Wim & Meyers, Johan

Optimal dynamic induction and yaw control of wind farms: effects of turbine spacing and layout - *Torque 2018*

Larsen, Gunner C. & Larsen, Torben J. & Hansen, K. S. & Chougule, A.
 Improved modelling of fatigue loads in wind farms under non-neutral ABL stability conditions - Torque 2018

1.2 COMMUNICATION ACTIVITIES

We launched the website totalcontrolproject.eu as the main focal point of our online presence. We also added the project as a discussion group on LinkedIn.



DISSEMINATION AND COMMUNICATION PLAN 2019

2.1 Upcoming Dissemination Activities

The TotalControl overview poster is accepted to be displayed at the DeepWind conference in Trondheim (Norway, 16-18 January 2019, sintef.no/projectweb/eera-deepwind), and on the WindEurope Conference & Exhibition, 2-4 April 2019 in Bilbao, Spain (windeurope.org). On DeepWind, one additional paper has been accepted:

Liang Lu, Nicolaos A. Cutululis: Virtual Synchronous Machine Control for Wind Turbines: A Review.

In June 2019 (17-20), TotalControl and other wind farm control projects will have their own minisymposium on the Wind Energy Science Conference (wesc2019.org), run by the head of dissemination of TotalControl, Gregor Giebel.



Theme 2: Turbine Technology and Aeroelasticity





Dr. Gregor Giebel
DTU Wind Energy

Mini-symposium: Wind Farm Control

Co-chair: Prof. Jan-Willem van Wingerden (TU Delft)

Wind farms are now being operated as single generating assets rather than a series of unrelated turbines. This principle of wind farm control can be achieved using both flow and active power control and is likely to be a hot topic at WESC 2019. This mini-symposium will set the agenda for related discussions.



www.wesc2019.org

The project will also target the WindEurope Offshore conference 2019 in Copenhagen (26-28 November), and probably the Wind Integration Workshop November or December in Dublin.

2.2 Upcoming Communication Activities

The first project video will be launched in January 2019. The narrative will be the first two minutes on wind farm control in general, and the last two minutes on what TotalControl will contribute to the field (Deliverable D5.2, slightly delayed). The content for the second video (D5.3, to be delivered in month 24) is currently under discussion.