

# **IET Seminar on Offshore Wind Technology 2015**

IET Seminar Digests 2015/15598

Newcastle, United Kingdom  
25 March 2015

ISBN: 978-1-5108-1404-2

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2015) by the Institution of Engineering and Technology  
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact the Institution of Engineering and Technology  
at the address below.

Institution of Engineering and Technology  
P. O. Box 96  
Stevenage, Hertfordshire  
U.K. SG1 2SD

Phone: 01-441-438-767-328-328  
Fax: 01-441-438-767-328-375

[www.theiet.org](http://www.theiet.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

<b>OFFSHORE WIND: SCALE OF OPPORTUNITY</b> .....	1
<i>C. Streatfeild</i>	
<b>PROACTIVE TURBINE MAINTENANCE INTEGRATED SUPPORT FOR WIND TURBINE OPERATIONS</b> .....	19
<i>C. Briggs</i>	
<b>MEGATURBINES: AN ENGINEERING BACKGROUND TO THE HISTORIC GROWTH IN TURBINE SIZE AND FUTURE DEVELOPMENTS</b> .....	25
<i>B. Hendriks</i>	
<b>POWER FREQUENCY OPTIMISATION</b> .....	38
<i>C. Plet</i>	
<b>DC TRANSMISSION</b> .....	54
<i>N. MacLeod</i>	
<b>JACOBS: CABLE TECHNOLOGY IN OFFSHORE TRANSMISSION</b> .....	67
<i>C. Jones</i>	
<b>SPECIALISING IN THE IMPOSSIBLE: REDUCING REPAIR TIMES IN OFFSHORE WIND O&amp;M</b> .....	82
<i>N/A</i>	