

IET Conference on Substation Technology 2009: Analyuing the Strategic and Practical Issues of Modern Substations

IET Seminar Digests 09/12933

**Birmingham, United Kingdom
3-4 November 2009**

ISBN: 978-1-61738-329-8

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© (2009) by the Institution of Engineering and Technology
All rights reserved.

Printed by Curran Associates, Inc. (2010)

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

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
Web: www.proceedings.com

TABLE OF CONTENTS

Dynamic Line Rating Protection for Wind Farms: Overview of Project	1
<i>M. Aten, R. Ferris</i>	
Dynamic Line Rating Protection for Wind Farms: Implementation and Testing	14
<i>T. Yip, C. An</i>	
New Transmission Substation Technology in CLP Power Systems	31
<i>C. C. Pang</i>	
Substation Technologies: Managing the Upcoming Change in the Context of Intelligent Network Management	56
<i>M. van Riet, F. Baldinger</i>	
AuRA-NMS: A Substation Automation Project for a Potential Smart Grid	91
<i>T. Green</i>	
The IBERDROLA Experience. How 61850 Impacted on Our Automation Policies and Organisation	121
<i>J. Torres</i>	
IEC 61850 as an Asset Management Model: It's Not About Relays	138
<i>D.B. Hewings</i>	
Bridging the Gap: Overcoming the Disconnect Between "The Folks Making This Equipment and Those Would Use It"?	143
<i>M. Kay</i>	
Impact of Changing Network Functions	147
<i>J. Douglas</i>	
Impact on T&D Protection Systems from Low Fault Levels in High Wind Conditions in 2030	162
<i>H. Urdal</i>	
Managing Fault Level Issues	180
<i>B. d'Albertanson, L. Mackay</i>	
Author Index	