

Organization : ISA District 12



Europe  
Middle-East  
Africa

With support of



1<sup>st</sup> ISA-EMEA International Forum  
Brussels - 15 & 16 September 2011  
Diamant Building - Bd A.Reyers Ln 80

## Automation to assist a low carbon economy



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The challenge : can the economy shift to a low carbon model?  
Emissions reduction in power generation  
Optimization of grid management  
New methods of control and supervision of industrial processes  
Home and building automation  
Cyber-security of industrial control systems

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ISA Sections : Belgium, France,  
Ireland, Italy, Spain





## Automation to assist a low carbon economy

### Introduction

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Low-carbon economy refers to an economy advocating low power consumption and low CO<sub>2</sub> emissions. The major aim is to achieve energy conservation and emission reduction. Low-carbon economy is a necessity if the world wants to contain the climatic change within acceptable limits.

Such a goal can only be attained combining different approaches: changing attitudes, lifestyles and content of growth, technological developments in the areas of production, transport and use of energy.

Advanced automation technology is an effective way to attain energy-saving and emission reduction in various sectors. Some studies consider that information and communication technologies in general could deliver 7 to 8 Gt CO<sub>2</sub>e of emissions savings, i.e. 15% of GHG emissions in 2020 based on a "Business As Usual" estimation. There is huge market potential in the development of low-carbon economy that favors automation enterprises to actively expand to the sectors of energy production, transformation, transmission, distribution and utilization.

The first international ISA EMEA Forum, organized under the auspices of the ISA District 12 (covering the Europe, Middle East and Africa zones), will focus on the stakes of automation in the search for a low carbon economy and feature the technologies which will be of the essence in the coming years.

#### Who should attend?

*The 2011 ISA-EMEA Forum, organized by ISA District 12, with the support of Agoria, is of interest to all managers involved in the development, promotion and implementation of automation technologies and services aiming at reducing CO<sub>2</sub> emissions in the short and middle term.*

*This encompasses technologies associated with generation, transmission and distribution of electricity, with energy use and process optimization and with home automation.*

*At both extremity of the energy chain, it is of interest to power plant and grid owners or operators and to energy consumers, should they be industrial, domestic or commercial. The Forum will shade the light to the importance of automation in the search of cost-efficient solutions for emissions reduction, without forgetting the risks attached to cyber-security issues.*

**ISA, The International Society of Automation ([www.isa.org](http://www.isa.org))**, is a global, nonprofit organization that comprises 30 000 members and is setting the standard for automation by developing standards, certifying industry professionals, providing education and training, publishing books and technical articles and hosting the largest conference and exhibitions.

**ISA-District 12 ([www.isaeur.org](http://www.isaeur.org))** regroupes ISA sections located in Europe, Russia, Middle-east and Africa. It comprises circa 2 000 members in 16 countries. ISA sections provide their members with the access to an international professional network, with training sessions and exchange facilities through their publications and events.



**Agoria ([www.agoria.be](http://www.agoria.be))** is the Belgium federation for the technology industry. Agoria is the Belgium's largest employers' organization and trade association. It represents and helps more than 1,600 companies in the technology industry. 13 industrial sectors are active within Agoria and notably industrial automation.





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## Preliminary program

### Thursday, 15 September 2011

This program is still subject to modifications and additions

08h30 - 09h15	Welcome and registration
09h15 - 09h30	Introduction to the Forum - <b>Jean-Pierre Hauet</b> – ISA District12 President and <b>Philip Maertens</b> – Chairman of Agoria Industrial Automation
09h30 - 10h00	Opportunities and challenges towards a low carbon economy? - <b>Dr. ing. Kurt Stockman</b> - University College West Flanders, Member of the Ghent University Association
10h00 - 10h30	Enables automation a low carbon economy ? <b>Pascal Stijns</b> – Power & Energy marketing manager EMEA - Honeywell
10h30 - 11h00	Coffee-break
11h00 – 12h30	Power generation : Fleet and plant management optimization solutions – <b>Christian Kervenec</b> – ALSTOM Power
	Reducing carbon emission, whilst improving efficiency and the power generation unit & fleet level – a practical experience - <b>Paul DaCruz</b> - Vice President Power - Invensys
	Coordination of grids management : a contribution to reducing CO <sub>2</sub> emissions – <b>François Boulet</b> – CEO of CORESO (Coordination of Electricity System Operators )
12h30 - 14h00	Lunch hosted by <b>Emerson Process Management</b>
14h00 - 15h30	Automation challenges of renewable energy – <b>John Shaw</b> – CIO Mainstream Renewable Power
	Energy efficiency by industrial automation - International standardisation supports low carbon policies - <b>Dr Günter Hörcher</b> - Strategy and European Relations - Fraunhofer IPA
	Innovation in process automation: <b>Travis Hesketh</b> – Vice President PlantWeb Wireless – Emerson Process Management
15h30 - 15h50	Coffee-break
15h50 - 17h30	Meeting energy efficiency and emission reduction goals in steel industry
	Energy efficiency through automation technology in the car industry - <b>Jürgen Kübler</b> – Mercedes Benz
	Reducing CO2 emissions in cement industry - <b>Sébastien Loiseau</b> – FORTEA (tbc)
18h00	Cocktail and Gala Dinner – Diamant center (reservations only)

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Friday, 16 September 2011

09h00 - 09h30	Key note address : Do cyber-security issues put automation at risk? - <b>Eric Byres</b> - Chief Technology Officer - Byres Security Inc (Tbc)
09h30 - 10h30	Creating a sustainable energy efficiency and CO2 reduction strategy - <b>Michael MacKenzie</b> - Director, Energy Management - Schneider Electric
	Industrial plant-wide energy optimization - <b>Chip Rennie</b> - Emerson Process Management
10h30 - 11h00	Coffee-break
11h00 - 11h30	Smart motor systems and advanced variable speed drives - <b>Régis Giraud</b> - IHP Sales & Marketing Manager - Leroy Somer
11h30 - 12h00	Pictures of the future describing a low carbon world - <b>Dr. Christian Urbanke</b> - Siemens AG
12h00 - 12h30	Home and building automation : The Homes project - <b>Henry Obara</b> - Schneider electric
12h30 - 14h00	Lunch
14h00 - 15h00	Demand Side Management in Industry delivering substantial cost savings - <b>Richard Morrison</b> - Principal Energy Consultant - RPS Group Ireland
	The control of today and prediction of the future using predictive production scheduling - <b>Wim De Bruyn</b> - Lecturer at the University College of Ghent.
15h00 - 15h30	Coffee-break
15h30 - 16h30	
	Wrap-up Round Table



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## Venue

### DIAMANT Conference & Business Centre

80 Bd. A. Reyers laan 80  
1030 Bruxelles  
Belgium  
Tel: +32 (0)2 706 88 00  
Fax: +32 (0)2 706 88 11  
[www.diamant.be](http://www.diamant.be)

#### Directions

##### From the Central Station

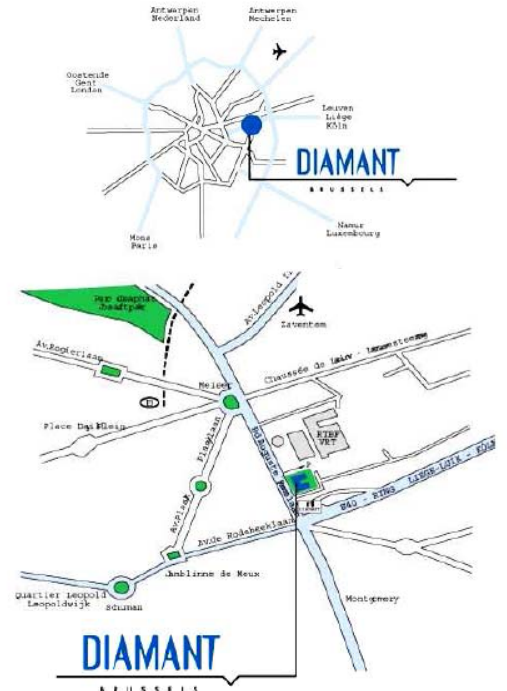
Take the metro 1 direction Stokkel and get off at Montgomery station, then take tram 23 (direction Heysel) or 25 (direction Rogier) until the Diamant station or 24 until Schaerbeek station. Take the exit "RTBF/VRT".

If you leave the station, you are already on the Boulevard Reyers. Go straight ahead direction VRT and cross the 'Kolonel Bourg' - street before you arrive at Diamant.

##### From the airport

By taxi: 10 min

By bus: line 12 or 21 stops at "Diamant". Go straight ahead direction VRT and cross the 'Kolonel Bourg' - street before you arrive at Diamant.



## Registration and information

Registration fees	Early birds - Before 31 July 2011		After 31 July 2011	
	ISA and Agoria Members	Other participants	ISA and Agoria Members	Other participants
Regular	500 euros	600 euros	600 euros	700 euros
Academics	200 euros	250 euros	250 euros	300 euros
Students	100 euros	130 euros	130 euros	160 euros
Cocktail & gala dinner	55 euros	55 euros	55 euros	55 euros

Registration fees include : access to conferences, lunches of 15 & 16 September – Gala dinner in addition  
Registration forms can be downloaded from [www.isaeur.org](http://www.isaeur.org), [www.isa-france.org](http://www.isa-france.org) or from other ISA District 12 web sites.

Registration forms shall be sent with payment to : ISA-France – c/o KB Intelligence – 10, rue Lionel Terray F-92508 - Rueil-Malmaison Cedex - France [forum2011@isaeur.org](mailto:forum2011@isaeur.org) - Fax : +33 1 46 52 51 93  
Information : + 33 1 41 29 05 05 (Marjorie Demeulemester) or [forum2011@isaeur.org](mailto:forum2011@isaeur.org)

Hotel suggestion : Reservations can be made directly at the Gresham Belson Hotel Brussels - [www.gresham-hotels-brussels.com](http://www.gresham-hotels-brussels.com) Tel: +32(0)2 708 3100 – Special ISA rates until 15 August ([a.haese@gresham-belsonhotel.com](mailto:a.haese@gresham-belsonhotel.com))