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Topic: Cyber Security in the Energy Sector

Date: Friday, 31 October 2014

Time: 9:00 am to 12:00 noon

Venue: Marina Bay Sands Expo and Convention Centre

Speakers:

- Mr Roger Brunt, Managing Director of Grosmont Howe Ltd
- Mr Vincent Loy, Partners of PricewaterhouseCoopers LLP
- Mr Michael McGowan, Principal Consultant, KPMG
- Ms Elina Noor, Assistant Director of the Institute of Strategic and International Studies, Malaysia

Moderator: Dr Philip Andrews-Speed, Principal Fellow and Head of the Energy Security Division, Energy Studies Institute

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Abstract:

The total, global impact of malicious cyber activity nowadays could be as high as USD 1 trillion. Of this, the number of concerted attacks specifically targeted at the global energy sector, namely, the oil, petrochemicals and power generation sectors, has been steadily increasing in recent years. If left unmitigated, cyber security threats will continue to grow and intelligent energy systems, oil and gas pipelines, smart grids, intellectual properties and critical data in the energy industries will become increasingly vulnerable.

Today, the sheer volume and concentration of data and digital transactions, coupled with easy global access throughout the business ecosystem, magnifies exposure to cyber attacks. While organizations have made significant security improvements, they have not kept pace with today's determined adversaries. As a result, many rely on yesterday's security practices to combat today's threats. Increasingly, the very survival of the energy sector demands that security leaders understand, prepare for, and quickly respond to security threats. Thus, this roundtable will specifically address:

1. Industrial threats and methods of risk assessment for the energy sector
2. The development of security strategies and security design for the energy sector
3. Recovery systems for the energy system

About the Speakers:



Mr Roger Brunt retired from the British Army in 2004 and was appointed Director of the United Kingdom's Office for Civil Nuclear Security. As such, he was the UK's regulator for security in the civil nuclear industry and he oversaw the introduction of a number of significant security improvements at the UK's civil licensed nuclear sites.

He is a member of the Director General, International Atomic Energy Agency's Advisory Group on Nuclear Security, and contributes to the development of IAEA nuclear security programmes. He is also a visiting Senior Research Fellow at King's College London, where he supports professional development courses in nuclear security, and he advises a Nuclear Security/Cyber Security project at Chatham House in London.



Mr Vincent Loy leads PwC Financial Services Technology Risks practice and sits on the Risk Leadership team. He has over 18 years of experience in the financial services sector and specialises in complex and emerging business and related technology issues for global banks, hedge funds and other financial institutions located in the US, UK and Switzerland.

He has advised senior management, the boards of major financial services companies and major regulators on business and technology strategy, governance, risks, security, sourcing, operations specifically relating to risks and resilience, cyber and data.

Most recently, Vincent has been appointed as the Financial Crime and Cyber Leader in Singapore. He has been working on one of the most systemic and complex IT risk and resilience incidents, including developing a remediation framework for IT risks and resilience.



Mr Michael McGowan is a Principal Consultant in KPMG Singapore. During his 26 years with KPMG, Michael has held several roles in North America, Europe and Australia: Partner in Charge of Internal Audit, Partner in Charge of Forensic and Partner in Charge of IT Advisory. Michael has also held the role of National Information Security Officer and National Chief Information Officer within KPMG. Michael is currently focusing on helping clients with their information and cyber security strategies.



Ms Elina Noor is Assistant Director of Foreign Policy and Security Studies at the Institute of Strategic and International Studies in Malaysia. She was previously with the Brookings Institution's Project on US Relations with the Islamic World and the Center for Nonproliferation Studies at the Monterey Institute of International Studies in Washington, D.C.

Her policy interests include US-Malaysia bilateral relations, cyber warfare and security, and radicalisation and terrorism.

Elina read law at Oxford University and earned her Blue playing ice hockey there. She also holds an LLM (Public International Law)(Dist.) from the London School of Economics and Political Science and an MA in Security Studies from Georgetown University.

Programme:

9:00 am – 9:05 am	<i>Opening Remarks</i> Dr Philip Andrews-Speed, Principal Fellow, Head of Energy Security Division, Energy Studies Institute, National University of Singapore
9:05 am – 9:35 am	<i>Cyber Risk: A Threat to Energy Security</i> Mr Vincent Loy, Partner, Financial Services Technology Risk Leader, Pricewaterhousecoopers, UK
9:35 am – 10:00 am	<i>Cybersecurity and Nuclear Energy</i> Mr Roger Brunt, Managing Director, Grosmont Howe Ltd, UK
10:00 am – 10:10 am	Q & A
10:10 am – 10:30 am	Break for Coffee/Tea
10:30 am – 10:55 am	<i>Cybersecurity and Energy in ASEAN</i> Mr Michael McGowan, Principal Consultant, KPMG Singapore
10:55 am – 11:20 am	<i>Cybersecurity and Energy in Malaysia</i> Ms Elina Noor, Assistant Director, Foreign Policy and Security Studies (ISIS), Malaysia
11:20 am – 12:00 noon	Panel Discussion