Workshop Implementation of Smart Grid in Indonesia

Part of smart grid web-series

26 February 2021

15:00-17:35 WIB / 09:00-11:35 CET

Virtual webinar

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International Energy Agency

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15:00 WIB/ 09:00 CET	**Opening Remarks** • **Arifin Tasrif, Minister of Energy and Mineral Resources** • **Keisuke Sadamori, Director of Energy Markets and Security, IEA**
15:25 WIB/ 09:25 CET	**Presentations:** • **Smart Grids projects at the RUPTL PT PLN**: Muhammad Ikbal Nur, Director of Corporate Planning, PLN (15 min) • **Power System's Digital Transformation:** Pauline Henriot, Luis Munuera and Jacques Warichet, Energy Policy Analysts, IEA (40 min) • **India's institutional developments for Smart Grids**: Arun Kumar Mishra, Director NPMU, National Smart Grid Mission, India (20 min) • **European utilities efforts to increase the smartness of their Power System**: Filip Carton, Head of the National Control Center, Elia Group, Belgium (20 min) **Panel discussion and Q&A** (25 min) *Moderated by: Sampe L. Purba, Senior Advisor on Economics of Natural Resources, MEMR*
17:25 WIB/ 11:25 CET	**Closing Remarks** • **Alejandro Hernandez, Head of Renewable Integration and Secure Electricity Unit, IEA** • **Rida Mulyana, Director General of Electricity, MEMR**
17:35 WIB/ 11:35 CET	**End of workshop**

The IEA's work as co-host of the Indonesia Smart Grids workshop is part of the IEA's Clean Energy Transitions in Emerging Economies programme, which has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952363.

Speakers' bios

	**Arifin Tasrif** is the Minister of Energy and Mineral Resources
	**Keisuke Sadamori** took up his duties as Director of the Office for Energy Markets and Security at the International Energy Agency in October 2012. Previously, he held the post of Deputy Director General for Policy Co-ordination at the Ministry of Economy, Trade and Industry (METI) in Japan. He had been involved with the IEA for a number of years as IEA Governing Board Representative for Japan and as Co-Chair of the Standing Group on Long Term Co-operation. Over the years, Mr Sadamori has served in the Cabinet of the Prime Minister of Japan and has co-ordinated numerous important projects, including work following the Fukushima-Daiichi accident in March 2011.
	**Rida Mulyana** is the Director-General of Electricity in the Ministry of Energy and Mineral Resources. Before this position, he was the Director-General of New Renewable Energy and Energy Conservation. Rida Mulyana holds a Master of Petroleum Engineering from the University of London in the United Kingdom, and a bachelor in Petroleum Engineering by ITB.
	**Muhammad Ikbal Nur** is the Director of Corporate Planning in PLN. Mr Ikbal joined in 1993 to work in Planning System. Before he held the position in PLN as Head of Corporate Finance in 2011 and Head of Planning System in 2015. From 2016 to 2020 Mr Ikbal was Director of Finance in Geodipa. He holds a Master of Power Sector by the Western Australian University in Australia, and a Bachelor in Electrical Engineering by the Universitas Indonesia.

	**Arun Kumar Mishra** currently serves as Director, Project Management Unit (NPMU) of National Smart Grid Mission (NSGM) under Ministry of Power Government of India. Since March 2018 he is also acting as as Vice Chair of ISGAN's (International Smart Grid Action Network) Executive Committee. A graduate in Electrical Engineering (REC/NIT Kurukshetra-1985), Mr. Mishra holds Post Graduate Diploma in Human Resources Management (IGNOU-1996). He has more than 34 years' experience with major focus on Selection of Information and Communication Technology (ICT) solutions in utilities for operational effectiveness and business transformation of power systems including planning, design and implementation and funding. He is a Distinguished member of the CIGRE. He is member of India-National System Committee on Information Systems and Telecommunications (CIGRE D-2) and the BIS (Indian National Standards setting body) Sectional Committee of Power System Control and Associated Communications LITD-10.
	**Filip Carton** joined the Elia National Control Center in 2003 and has since then gained 18 years of experience in grid operation by holding several positions within Customer, Market and System (control room engineer, head of emergency plans, contract manager for ancillary services, project manager strategic reserves and head of real-time grid operations). As of 2016 Filip has joined the Senior Management team as Head of the National Control Center, managing the Belgian High Voltage grid, from year ahead operational planning until close to real-time operations, including emergency operations (as crisis director) balancing and capacity calculations in all time frames.
	**Cesar Alejandro Hernandez** is the Head of the Renewable Integration and Secure Electricity Unit at the IEA. Mr Hernandez joined in 2017 to work in Electricity Market Design, Electrification and Power sector Decarbonisation strategies. Before he held the position in the Mexican Government as Managing Director for Analysis and Market Surveillance, where he participated in the design and implementation of the Power Sector Reform. Prior to this position, he was an advisor to the Finance Vice Minister in Mexico in energy and environmental issues. From 2007 to 2011 Mr Hernandez was Deputy Chief Economist, at Comisión Federal de Competencia, the Mexican Antitrust Authority. He holds a PhD

	in economics by the University of Toulouse in France, and a BA in Economics by the ITAM.
	**Pauline Henriot** is working at the IEA as Policy analyst in the Energy Efficiency division, where she works on the 3DEN project on consumer flexibility and network digitalisation. Before joining the IEA, she worked first at the French Energy regulator, on distribution tariffs and smart grid regulation, and then in a utility, on flexibility scheme for power consumers. Pauline Henriot holds a Master in Economics from the Université Paris-Dauphine, and a Diploma in Economics from the Ecole Normale Supérieure.
	**Luis Munuera** is working at the IEA as Energy Policy analyst in the Strategic Inititives Office where he acts as Technology lead on Electricity Grids and Storage Technical lead on the IEA's Smart Grid implementation initiative, a programme to provide guidance on deploying clean electricity grids in developing economies. He has been working for the IEA for 8 years. Prior to his current role, he worked successively in the Energy Technology Division and the World Energy Outlook. Luis Munuera holds a Master in Energy Policy and a PhD in Energy Technology and Economics from Imperial College London.
	**Jacques Warichet** is working in the Renewable Integration and Secure Electricity Unit at the IEA as a Power System Transformation analyst where he works with power system flexibility and stability, and the grid integration of renewables and new electricity uses. Before joining the IEA, he has spent 15 years in the power grid industry, as a planning an operation specialist, contributing to the development of grid codes, advanced monitoring systems and operational agreements in Europe, Africa and the Middle East. Jacques Warichet holds a Master in Electromechanical Enegineering and a PhD in Power Engineering form the University of Brussels, Belgium.

	**Sampe L. Purba** is Senior Advisor to Minister of EMR Indonesia on Economy of Natural Resources. His main role is to give strategic advisory on the policy formulation and management of natural resources, discuss and help solve issues across the concerned stakeholders and functions. He is also Chair of Committee Audit in Ministry of Energy and Mineral Resources. He has been experiencing 30 years assignment within private, semi and government institution in several technical and managerial positions mainly related to commercial, finance, legal and audit of oil and gas business management. He holds bachelor and master degrees in Economics, Accounting, Finance and Law, from reputable domestic and university abroad. Currently he pursues his study in doctoral degree in Indonesia Defense University, concentrating in Energy Policy.
	**Randi Kristiansen** is working in the Renewable Integration and Secure Electricity division in the IEA as an Economics & Financial analyst where she works with power system flexibility, market reform and cross-border (within countries and between countries) trading. Before joining the IEA she has spent 10 years trading power, coal, gas and electricity certificates in various European markets, as well as structuring corporate PPA's for renewables. After trading she joined the Danish Transmission System Operator, where she worked in the market development department. Randi Kristiansen holds a master of Economics from Aalborg University, Denmark.