Timor-Leste mooc smart grids

How will the ADB help Electricidade de Timor-Leste?
In Southeast Asia,Electricidade de Timor-Leste has secured funding from the Asian Development Bank (ADB) to modernise its grid network with smart meters and smart grid technologies. The utility will use a $35 million loan from the ADB to ensure its grid network is resilient enough to power consumers in 12 municipalities.

Why does Timor-Leste have a high electricity cost?
The cost of electricity supply in Timor-Leste is higher than in neighbouring countries because of the utility's slow transition from expensive diesel generation to renewables, high technical losses, and wasteful consumer use of energy because of a lack of metering infrastructure. Have you read?

Could biogas be introduced locally in a smart grid?
Biogas can be introduced locally within the gas networkin a smart grid. Smart grids also provide the flexibility needed to stimulate change in the energy market such as product innovation,privatization and internationalization.

Why are smart grids the solution?
Intelligent electrical power grids,being robust and flexible,effectively coordinate energy supply and demand in a dynamic way. This enables the electricity from solar cells or wind farms,for example,to be incorporated within the distribution network. Biogas could be introduced locally within the gas network.

What is the role of a Smart Grid engineer?
Smart Grid engineers design systems that can regulate smart grids and make them operate effectively. Their work involves analyzing and solving (simulated or foreseen) grid disturbances in electrical power systems.

How many smart meters will be installed in a power distribution modernisation project?
Some 140,000 smart metersand a distribution automation system will be installed as part of the power distribution modernisation project. The smart meters will enable the utility to leverage energy prepayment to ensure consumers are accurately billed and to reduce non-revenue electricity.

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This ethnography, based on fieldwork in Dili, Timor-Leste between 2015 and 2017, adopts an orthodox sociological theorising of agency to investigate the ways in which people in Dili negotiate the...

Le MOOC Smart Grids vise à présenter de manière structurée, et sans exiger de

connaissances préalables en électrotechnique, l"ensemble des éléments techniques qui permettent de comprendre les mécanismes essentiels du fonctionnement actuel des réseaux électriques, leurs limites, et les solutions qui sont envisagées pour les faire ...

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Another key finding was that MOOCs can provide quality professional development opportunities at scale in countries of the global South such as Timor-Leste, providing due consideration is given to local context, languages and knowledge.

Le MOOC « smart grids » a été coordonné en 2016 par Florent Cadoux, ancien titulaire de la chaire, « dans le but de permettre à un très large public de comprendre les enjeux de la transition énergétique du point de vue des réseaux électriques ».

Analyze intelligent electrical power system dynamics (frequency stability) to achieve active power balance, and identify control-room technologies for system-wide remote monitoring, protection and risk management of smart grid cyber security. Simulate a 9-bus grid, with and without variable renewable resources.

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