Guam smart grids visiÃ³n 2030

The roadmaps parent document, IEEE Vision for Smart Grid Controls: 2030 and Beyond, discusses many topics that outline the evolution of the Smart Grid and the opportunities and challenges that it presents for control, ranging from generators to consumers, from planning to real-time operation, from current practice to scenarios in 2050 in the ...

This document, IEEE Smart Grid Vision for Computing: 2030 and Beyond Roadmap, provides a time-phased evolution of Smart Grid characteristics and computing technologies described in the computing vision report across near-term (0-5 years), mid ...

The purpose of these visions, published in the IEEE Research Report Smart Grid Vision for Computing: 2030 and Beyond, is to stimulate investments in computing (technology research and development, standards, and education) that will enable realization of Smart Grid goals.

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This IEEE Vision for Smart Grid Communications: 2030 and Beyond Roadmap is a high-levelsupplement of the full vision document IEEE Vision for Smart Grid Communications: 2030 andBeyond. Communication is a major enabling technology for the Smart Grid. We believe that the powergrid will tend to utilize advances in communications since the data exchange ...

This presentation provides an overview of smart grids and recent advances in distributed sensing, modeling, and control, particularly at both the high-voltage power grid and at consumer level.

IEEE Vision for Smart Grid Controls: 2030 and Beyond. This document highlights the role of control systems in the evolution of the Smart Grid. It includes an overview of research investigations that are needed for renewable integration, reliability, self-healing, energy efficiency, and resilience to physical and cyber attacks.

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GPA will generate 25% of its energy from renewable resources by 2024 and 50% by 2030 while improving grid stability and resiliency. Customers benefit through lower and less volatile fuel recovery (LEAC) rates, cleaner air, improved power quality, fewer outages, and reduced overall carbon footprint.

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