Santo domingo microgrids

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The symposium was attended by a hundred researchers from Canada, the United States, Mexico, Guatemala, Nicaragua, Costa Rica, Dominican Republic, Puerto Rico, Panama, Colombia, Venezuela, Peru, Brazil, Chile, Argentina and Uruguay.

Likewise, the research seeks to implement a real-time simulation laboratory where data from the distributed generation microgrid of the INTEC campus or any other location in the country is integrated and allows scenarios to be carried out to analyze the behavior of the network with the high penetration of renewable energies. in electrical networks.

Also develop knowledge bases on the implementation of real-time simulation for controllers of intelligent electrical microgrids interconnected in electrical networks and develop real-time management and control controllers of electrical microgrids that adapt to the conditions of the electrical networks of the Dominican Republic, allowing to reduce the management and control process of electrical microgrids.

Aybar pointed out that given the priority for developing countries to make a clean energy transition that integrates low-carbon energy technologies, there are challenges when it comes to integrating this type of technology into electrical energy systems, since many of them do not have the technological infrastructure necessary for the control and management of said technologies.

The teacher specified that the control of the microgrid maximizes dispersed generation resources, allowing the energy needs of low-voltage electrical installations to be met.

In addition, he maintained that the real simulation of the converters presents few switches, but allows controlling the elements of the microgrid so that the Generation Distribution units balance the generated and load powers.

Aybar obtained the highest qualification when presenting his doctoral thesis "Energy management system for smart microgrids, integrated into low-voltage electrical networks for the conditions of the Dominican Republic"

The doctorate in Energy Management for Sustainable Development has the objective of training highly qualified professionals in the energy-environmental area, with theoretical-practical skills and the use of advanced technological tools, to solve problems in an innovative way.

Una red el?ctrica confiable es la columna vertebral de la sociedad actual. Ninguna naci?n moderna puede ser plenamente soberana, competitiva y sostenible sin prestar atenci?n a esta premisa, a este axioma fundamental.

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La Rep?blica Dominicana es uno de los pa?ses m?s vulnerables del mundo al cambio clim?tico. Seg?n el ?ndice de Riesgo Clim?tico Global 2021 [1], que cuantifica en qu? medida los pa?ses se han visto afectados por los impactos de eventos clim?ticos en sus econom?as (tormentas, inundaciones, olas de calor, etc.), Rep?blica Dominicana ocupa el puesto 50 0 .

No obstante, nuestros vecinos m?s cercanos, Puerto Rico (1 0) y Hait? (3 0), han sido identificados dentro de los 10 pa?ses m?s afectados del mundo en los ?ltimos 20 a?os, colocando a la isla y a la regi?n como una de las m?s vulnerables.

En este contexto, es m?s que evidente que la magnitud del reto al que se enfrentan los dominicanos recae sobre la visi?n de los administradores, formuladores de pol?ticas y reguladores de la infraestructura de nuestra naci?n.

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