Nicaragua energy storage for demand response

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Emerging economies on the verge of extended grid development are well positioned for low-carbon energy transitions, and Nicaragua, the third poorest country in the Western Hemisphere, is helping lead this transition in Latin America (Bloomberg New Energy Finance and Multilateral Investment Fund 2014). After decades of intervention from oil rich nations in its state affairs (Grayson 1988), prolonged periods of economic liberalization (1989-2006) (IMF 2000, Mostert 2007, Mostert 2009), and preferential oil agreements through the Bolivarian Alternative to the Americas (ALBA) and Petrocaribe (Jacome 2011), Nicaragua has recently begun transitioning to a post-petrol electric power grid motivated by energy security, industrial development, and financial risk mitigation.

Significant research cost and time savings were possible due to the open access nature of high-resolution (hourly) national electricity demand profiles, as well as power production (hourly) for every generation unit in Nicaragua (CNDC 2015). Electricity demand (national), generation, power system costs and information about the electric power system infrastructure were all open access and available since 2011. Barrier-free online access to high-resolution energy data enables researchers to focus on the development of analytical tools and methodologies for evaluating decarbonization, rather than on the time intensive and expensive processes that are often required for data acquisition.

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