To: Yelitza Lucena Quiles, Executive Director of Hospital Metropolitano San Francisco (#371 Calle De Diego, San Juan, 00923, Puerto Rico), Lorenzo Gonzalez Feliciano, Secretary of Health of Puerto Rico (WIC Program P.O. Box 25220 San Juan, PR 00928-5220 United States)

CC: Hospital Metropolitano San Francisco Office of Finance

From: Integrated Power Solutions; Daniele Weisberg, Macarous Ansah, Heejin Cho, Tiffany Anson, Syed Ibrahim

Date: November 19th, 2020

Subject: Solar Backup Generators for Hospital Metropolitano San Francisco

We are the engineers of Integrated Power Solutions. Our company prides itself on providing energy-efficient and environmentally friendly answers to communities that have experienced hardships due to natural disasters. We are seeking permission and funding to construct, test, and deploy solar-powered generators in your hospital. These specially designed generators can provide hospitals the ability to continue running without a break in power during a weather-related disaster.

For hospitals, loss of electricity can be the difference between life and death. For the healthcare industry, an interruption in power can compromise critical operations and data. If a sufficient backup power supply is not in place, vital life-saving devices and technologies could fail and put the health of patients in jeopardy (Rodriguez 2017). Hurricane Maria hit Puerto Rico on September 20th, 2017 and resulted in the worst blackout in American history (Marksters, 2017). Hospitals were out of electricity due to downed and damaged power lines, as well as widespread flooding. Repairs to infrastructure took extended periods of time.

At Integrated Power Solutions, we have designed a solar-powered generator that will allow hospitals to run independently from municipal or private electricity in the event of an emergency. The solar panels will be securely mounted to the roofs of the buildings, capable of withstanding high winds. They will be connected to the generator, which will be located on an upper floor of the hospital to avoid damage from floods. The key to the design is the generator’s dual battery system. A fully charged battery can provide power for approximately three days. While the hospital utilizes the power from one battery, the solar panels will be recharging the other. This system would provide hospitals security in knowing there would be no lapse in power for their patients. For more information about Integrated Power Solutions, as well as our plans for the solar-powered generators, please refer to the attached proposal.

Our company has worked extensively with areas that have suffered from the destruction, especially blackouts and loss by natural disasters. We believe that together we can ensure stability for hospitals and the safety of Puerto Rico’s patients. We look forward to your correspondence to further discuss our plans and how we can make this a reality. You can reach us via email at engineering@integratedpowersolutions.com

Sincerely,

Integrated Power Solutions

**Reference**

Marsters, P., & Houser, T. (2019, February 25). America's Biggest Blackout. Retrieved from <https://rhg.com/research/americas-biggest-blackout-2/>

Rodriguez, J., Rodriguez, J. (2017, November 15). How a small hospital in rural Puerto Rico survived Hurricane Maria. Retrieved from https://www.statnews.com/2017/11/15/puerto-rico-hurricane-maria-hospital/