ACT 109

H.B. NO. 1943

A Bill for an Act Relating to the Modernization of the Hawaii Electric System. Be It Enacted by the Legislature of the State of Hawaii:

SECTION 1. The legislature finds that a modern electrical grid is essential to meeting Hawaii's clean energy goals. In recent years, Hawaii's electric utilities have integrated significant levels of new renewable energy projects on each island grid, and distributed generation in the form of rooftop photovoltaic systems has been the fastest growing share of new renewable energy generation each year. To date, Hawaii's electric utilities are on track to exceed the next renewable portfolio standard goal in 2015. However, moving beyond the current levels of renewable energy on each grid will likely require further investment in advanced grid modernization technology to meet the State's aggressive clean energy goals and maintain a reliable electricity grid.

The legislature further finds investments in advanced grid modernization technology may be needed because Hawaii's island grids are reaching significant levels of variable renewable energy that can affect the overall operation of the grid at the system level and the ability of utilities to provide safe and reliable service at the point of delivery to customers. Continued growth in renewable energy, particularly distributed generation, will require investment to modernize the grid to interconnect higher levels of distributed generation and to support other new customer energy options such as electric vehicles and demand

response technologies.

The legislature also finds that the rapid growth of the State's solar industry has reduced Hawaii's dependence on imported oil, created thousands of jobs during a statewide economic downturn, and provided thousands of households and businesses new options to manage their energy bills. The legislature believes

a long-term, sustainable solar industry is in the State's interest.

The legislature further finds that the solar industry is significantly impaired by the current interconnection process. As Hawaii transitions from the early stages of its clean energy transformation, the State needs a more transparent and timely process for electricity customers to exercise their options to manage their energy use.

The legislature additionally finds that, as distributed generation plays an increasingly significant role in the State's clean energy transition, the utility's processes for interconnection and distribution system planning must evolve along with new rules and tariffs for distributed generation. The current rules and tariffs for distributed generation were developed to support a nascent and emerging solar industry. Now that this energy source and industry have achieved a significant portion of the electricity system's energy mix, tariffs for distributed generation need to be developed and adopted that compensate the utility for grid services provided to customers and that compensate customers for the grid services provided to the utility by distributed generation. These modified tariffs will also set the stage for further innovations in this sector, such as advanced information, photovoltaic inverters, and energy storage systems that expand the nature of services offered by customer-sited resources to the electric grid operator.

The legislature finds that the resolution of the matters noted in this Act requires detailed discussion of technical, economic, environmental, and cultural issues, and a process that will expedite decision-making on near-term, high priority issues. In recognition of the importance of these issues, the purpose of this Act is to establish guiding principles and outline a timely regulatory process to

address modernization of the Hawaii electric system.

SECTION 2. Section 269-145.5, Hawaii Revised Statutes, is amended to read as follows:

"[[]\\$269-145.5[]] Advanced grid modernization technology; principles. (a) The commission, in carrying out its responsibilities under this chapter, shall consider the value of improving electrical generation, transmission, and distribution systems and infrastructure within the State through the use of advanced grid modernization technology in order to improve the overall reliability and operational efficiency of the Hawaii electric system.

(b) In advancing the public interest, the commission shall balance technical, economic, environmental, and cultural considerations associated with modernization of the electric grid, based on principles that include but are not

<u>limited to:</u>

(1) Enabling a diverse portfolio of renewable energy resources:

Expanding options for customers to manage their energy use;

Maximizing interconnection of distributed generation to the State's electric grids on a cost-effective basis at non-discriminatory terms and at just and reasonable rates, while maintaining the reliability of the State's electric grids, and allowing such access and rates through applicable rules, orders, and tariffs as reviewed and approved by the commission;

(4) Determining fair compensation for electric grid services and other benefits provided to customers and for electric grid services and other benefits provided by distributed generation customers and other

non-utility service providers; and

(5) Maintaining or enhancing grid reliability and safety through mod-

ernization of the State's electric grids."

SECTION 3. Statutory material to be repealed is bracketed and stricken. New statutory material is underscored.

SECTION 4. This Act shall take effect upon its approval. (Approved June 20, 2014.)