

## **RENEWABLE ENERGY**

### **EXHIBIT X. C.6**

#### **Executive Summary**

The Resort World Hudson Valley will procure or generate on-site 10 percent of the main facilities annual electrical consumption from renewable energy sources qualified by the New York State Energy Research and Development Authority (NYSERDA). It is the developer's understanding that there are two options that satisfy the intent of the renewable minimum usage criteria as discussed generally with Peter Savio (Program Manager for Policy, Planning, and Market Development at NYSEERDA) and Kelly Tyler (Statewide Economic Development Outreach at NYSEERDA) in June of 2014.

NYSERDA staff stated that although they do not have a qualification for renewable energy sources it does promote the use of renewable energy that is eligible to meet the New York State Renewable Energy Portfolio Standard (RPS) as governed by the New York State Public Service Commission (PSC). The two options are as follows:

- The developer can purchase 10 percent (or more) of the electricity needed from a qualified energy services company (ESCO) that offers renewable energy for purchase. While purchase through an ESCO will not be electrical energy that is produced on-site; it will be considered eligible renewable energy by PSC (wind, solar, or hydroelectric). Procurement of renewable electricity through an ESCO is estimated to cost the developer approximately 2 cents more per kilowatt purchased.
- The developer can construct an on-site renewable energy system that is fully functional and included in the overall project program. Based on a preliminary study of the terrain, weather, and other site-specific factors, it has been determined that an on-site solar photovoltaic system is likely the most ideal for Resort World Hudson Valley. For the purposes of increased visibility and a positive public perception the developer is considering installation on top of the Resorts World Grand Hotel and Convention Center parking garage although ground mounted in an open field or on surface parking canopies was considered as well. The solar system also would serve as a shading canopy for vehicles on the upper level of the parking garage. Similar deployments have proven successful in other site development projects.

#### **Proposed Infrastructure**

Based on preliminary calculations, the annual electricity usage is approximately 39 million kilowatt-hours. This is estimated on the approximate square footage of the ground floor, mezzanine, second floor, casino, convention center, restaurants, and parking garage. Therefore, a 10 percent offset is 3.9 million kilowatt-hours annually. To generate 3.9 million kilowatt-hours a solar photovoltaic system would need to be approximately 3 megawatts of DC nameplate capacity. Preliminary estimates are that an array of panels could be fit on the combination of the upper level of the parking garage as a canopy system and the roof of the Resorts World Grand Hotel. This would be achieved by putting the panels in large blocks.

The cost of a system on top of a garage is approximately \$8.5 million and would be borne by the developer, with assistance from NYSEERDA and/or the Federal Investment Tax Credit. A similar sized deployment (3 megawatts) using a ground mounted open-field system is approximately \$7 million.