

## RENEWABLE ENERGY GOES MAINSTREAM

### A Comprehensive Approach

The Clark team has a strong record of successfully delivering renewable energy solutions for a wide array of applications. We specialize in all types of renewable energy, including solar photovoltaic, solar hot water, solar space heating, solar cooling, biomass, landfill or digester gas, wind, micro- or mini-hydro, geothermal, ground source heat pumps, and more. Most importantly, we take a comprehensive approach to renewable energy; while many think of solar energy exclusively as a way to produce electricity (using photovoltaic panels), we also recognize that solar energy can be used for space heating, hot water heating, or even for cooling. Similarly, ground source heat pumps can be utilized not only for space heating and cooling but also for highly efficient water heating. We identify all potential applications of a given technology and determine the best solution for your facility. We will consider projects both large and small. We were recently awarded a contract to develop 500 MW of solar energy using an enhanced use lease (EUL), but we have also completed projects as small as 10KW.



### Our Renewable Energy Strategy

We determine which types of renewable energy are most appropriate for your site. All of our audits include a thorough analysis of available renewable resources to identify potential sources of energy that are not being captured or are being used inefficiently. We then determine locations at your facility where this renewable energy could be harvested; we consider building-integrated solutions as well as solutions that use previously unused (or underutilized) land. The renewable energy survey for your location will also include an analysis of available incentives, the amount of money saved from on-site renewable energy, and the approximate cost of implementing the renewable energy at your given location.



### We Make It Work

Due to the public importance of developing renewable energy within the United States, there are a large number of government and utility incentives available to subsidize renewable energy projects. Though the available programs are constantly changing, we track and monitor hundreds of these programs so that we can identify and fully leverage the programs that are available to offset the cost of your projects. Often these incentive programs are the difference between a project that actually gets built and one that never goes beyond a concept on a piece of paper. In particular, we can structure our projects to utilize federal tax incentives (investment tax credit or production tax credit), state tax incentives, state grants, federal grants, renewable energy certificates (RECs), carbon credits, utility rebates or other incentives, feed-in tariffs, subsidized loans, system benefit trust funds, and more. If there is money available for your project, we'll find it.

## OUR TECHNOLOGIES

Clark Energy Group can implement the following technologies: Solar PV, Solar Thermal, Solar Heating, Solar Cooling, Geothermal, Ground Source Heat Pumps, Wind, Biomass, Micro- and Mini-hydro, and Landfill and Digester Gas.

## WHY RENEWABLE ENERGY?

- **Renewable Energy is Efficient.** Renewable energy is much more efficient than its counterpart, grid electricity. Electricity from the grid is tremendously inefficient as less than half of the energy utilized to produce grid electricity is used productively. In fact, much of grid electricity's energy is lost from waste heat during the generation process, transmission losses, converting between AC and DC current, and the like. Clark's renewable energy solutions not only avoid these transmission losses but also generally reuse waste heat so that the full energy content is captured directly.
- **Renewable Energy is Required.** Renewable energy is necessary to satisfy government mandates from EO 13423 and EISA 2007.
- **Renewable Energy is Smart.** Renewable energy reduces our dependence on foreign oil and is by nature an abundant, limitless resource.
- **Renewable Energy is Secure.** The power transmission grid has become increasingly fragile with the risk of widespread grid outages rising. By producing power directly at federal facilities, we are able to reduce this risk, particularly for mission critical facilities. While centralized power plants and major transmission lines are points of vulnerability, distributed generation is much more secure.
- **Renewable Energy is Clean.** Renewable energy does not release harmful greenhouse gases into the environment.