



Sri Lanka power production plan

provided by

Cillium Corp for Sri Lanka

We are grateful for the opportunity to provide our team's solutions-based recommendations for the Sri Lanka power production plan. CILLIUM CORP and EMS of SRI LANKA and our partners provide a diverse base of solutions that are designed to provide Sri Lanka with renewable green energy solutions that will benefit the citizens of Sri Lanka for generations to come. Our team is comprised of strategic partners that can provide individual solutions or a combined solution for better economies of efficiencies.

These solutions through CILLIUM CORP and EMS for Sri Lanka that will reduce the operation cost both upfront and ongoing. This includes construction, maintenance, fuel cost associated with the production of electricity. CILLIUM CORPB provides the solutions in the development and deployment in green energy technologies. Our energy management reduces consumption of electrical usage be 20% on existing facilities and 15% on newly constructions facilities.

We also provide energy production systems that include solar, wind, wave and biomass systems that all renewable clean energy solutions. The savings of electrical consumption could be over a million dollars per location depending on their current and projected consumption. Additionally, CILLIUM CORP can provide an array of energy production solutions that include wind/solar, wave and biomass/gasification systems. The correct combination of these energy production systems could provide all the power that each facility would require and provide the ability to sell the extra power to the local power companies. The biomass/gasification systems can also element the need for land fill and possible hazardous/medical material waste management.

The technologies we are already developing are:

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Solar/Wind – Our device will be designed to utilize both solar and wind on the same device. This design is spherical in shape allowing for higher efficiency regardless of the angle of the light source while capturing the movement of wind simultaneously with solar. This allows both technologies to share certain cost (infrastructure, maintenance, footprint, land acquisition, right of way) while reducing cost and providing much greater scalability.

Wave – Our devices uses the natural movement of the ocean waves to generate energy. While there are several companies that are experimenting with this type of technology, ours uses some of the same designs that our solar/wind device utilizes. This makes our equipment more efficient, cost effective and scalable. The Dominican Republic provides a perfect environment for our development and deployment of these technologies.

Biomass/Gasification systems can be utilized in conjunction with the local governments to reduce land fill requirements. The payment for managing the waste and revenue generated by the sale of electricity makes this technology financially viable and the addition of our wind/solar technologies on the same facility greatly increases the profitability of each location.

Our intelligent energy efficiency technologies will greatly improve control of property power resources and virtually eliminate energy waste. The reduction of energy waste means less expense for energy purchases and dollars saved contributes directly to earnings per share. Our systems are also designed to be maintenance free and require little human monitoring. CILLIUM CORP and EMS OF SRI LANKA will analyze each site's energy consumption and utility expenditures and determine the best solutions. The solutions are unique to each location. They are guaranteed safe and effective and are fully protected through a built-in bypass function.

Solar/Wind Energy Management Systems

Solar Systems Manufacturing

The solar industry is still in the process of evolving into a solution that can be economically efficient for the consumer. The return on investment model is dependent on the cost of KWh and manufacturing systems cost. The better the manufacturing cost ratios can be contained the faster universal deployment will be achieved.

The development of manufacturing facilities is dependent on the complexity of the business goals. Many questions must be considered before it can be determined as to the investment needs for successful returns.

What is the target market, home, commercial, government, in country, exports, etc.?

What is the initial volume of sales and what are the long-term projections?

Is the manufacturing volume a just in time or sales estimates volume?

Is this facility only in production of current technologies or will the ability to engage in research, development and production of new age technologies?

Is the facility also involved in the development of energy storage systems that may be required by certain customers?

Will the facility manage their own data and information flow or will some/all be outsourced?

What are the governmental requirements for hazard waste removal or disposal?

Will this facility be having direct sales, channel distribution or a combination of both?

Will the facility have the ability to migrate into other energy technologies?

Listed are some web paCillium Corp showing information for the design and manufacturing of solar system facilities

<http://energy.gov/eere/sunshot/downloads/first-solar-manufacturing-facility-ohio>

<http://www.pv-tech.org/editors-blog/inside-ghanas-first-module-manufacturing-facility>

<https://electrek.co/2016/06/01/musk-solarcity-robotic-solar-module-manufacturing-facility-approved/>

<http://www.solarworld-usa.com/newsroom/news-releases/news/2008/solarworld-opens-north-americas-larCillium Corpt-solar-cell-manufacturing-facility>

GHB Global Services Inc is sugCillium Corpting the following implementation plan of an energy production and management facility. It is our opinion that we can use our energy management solutions to develop the needs assessment for the design and construction of the solar manufacturing facility in Sri Lanka. Our system requires a detailed analysis of each potential client location. GHB can easily incorporate data gathering specific for solar systems at commercial and government locations.

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Additionally, we can develop plans with our clients to offer the solar services to their employee residential locations. This information will provide essential building blocks as to the correct design of the initial manufacturing facility and projected growth. GHB also has engineer designs for next evolution of solar/wind combined energy productions as well as ocean wave technologies. As a joint partnership with the manufacturing funding group, we will have the ability to generate immediate revenues through our energy management systems while gathering the data necessary to design the correctly sized manufacturing while developing the next evolution of energy production systems.

The solar energy industry is still in the process of exploring how to make photovoltaic panels more efficient and less intrusive, and researchers at Stanford have already pushed forward with peel-and-stick solar panels. However, for high power usage the devices must be large and in direct contact with the sun at all times, meaning they need to track its position in the sky using sensors and equipment that are expensive and susceptible to bad weather. GHB has a new design that uses a large glass sphere lens, which collects diffuse light from multiple angles. The shape of the lens focuses this light into a fine beam — much like a magnifying glass — that can deliver a greater amount of sunlight — around 70 percent more — than traditional photovoltaic panels can collect on their own, even when they track the sun. The system enables GHB to reduce the size of the solar panel to around one percent of the typical PV device. The new design is arguably much more aesthetically pleasing than the gray, oblong panels currently in use.

Researchers working at Michigan State University (MSU) have created a completely transparent solar collector which is so clear that it could replace conventional glass in windows. The new devices – dubbed transparent luminescent solar concentrators – have the potential to not only turn windows into solar electric generators, but the screens of Smartphone, vehicle glazing, and almost anything else that has a see-through surface. Unlike standard photovoltaic solar cells that capture energy mainly from the visible part of the light spectrum, the transparent solar collectors developed by the MSU team use microscopic organic molecules designed to absorb specific wavelengths of light invisible to the human eye. To accumulate and use this solar energy, the collector channels the light to the perimeter edge of the plastic where it is transformed into electricity by thin strips of photovoltaic solar cells. One of the proposed uses of this completely transparent material would be in its use as a solar collector in place of conventional glazing or where transparent plastics are now used. The technology is still at an early stage in its development, but claims that it holds the prospect of being scaled-up to commercial levels for use in industrial applications and can be produced at a reasonable cost.

Wave Technologies

“Marine Hydrodynamic Kinetic” (MHK), Wave Energy the technical term is the process of capturing tremendous amounts of the ocean’s clean, green, renewable kinetic energy; and utilizing various mechanical means of converting that hydrodynamic energy into clean and green electrical energy.

The sciences behind the principles are eons old. However, only recently has “modern man” only realized how to take those sciences and use them to benefit man-kind and the planet, by providing abundant renewable clean energy and/or water, and to combine those alternative technologies to provide and produce truly safe, secure, and sustainable communities.

The research and development between CILLIUM CORP and EMS for Sri Lanka with the local ColleCillium Corp and Universities in the field of energy management and new energy production systems will deliver new products and service in the areas of wind, solar and water flow technologies. These technologies will provide the ability to meet the growing energy demands while using non-polluting fossils fuels. These new technologies will be the leaders in the multi-trillion-dollar world energy industries. The overall impact will be more cost-effective energy production through cleaner energy production processes.