



## FUNDING & EQUITY ASSESSMENT OVERVIEW

Feb. 10, 2014

**Project Name** : 50MW Solar Power Farm  
**Project Location** : Cebu Philippines  
**Company Name** : Cebu Solar Inc.  
**Loan or Equity Amount** : USD 125,000,000.00



### EXECUTIVE SUMMARY

Energy security is an important goal to seek to realize as an absolute requirement for economic growth and stability. **Renewable Energy (RE)** development is the key element of this goal.

The **Philippines** has realized significant strides in the development of its renewable energy resources. A third of the country's power requirement is currently being addressed by Renewable Energy. In 2009, only an estimated 18% of Renewable Energy was utilized. Past studies, however, suggest that the RE potential is twenty five times more than what is currently being used.

The demand for energy will continue to increase as the country pursues the sustainable development path. It is estimated that at least **US\$40.6 billion** is needed to secure the **country's energy requirements between 2011- 2030**.

Renewable energy will not only help address this demand, but also provide the necessary balance between development and environmental sustainability. Secretary Jose Rene Almendras of the Department of Energy mentioned in one of his speeches, "that the government generated investment commitments of over **Php 80 billion (around \$19 billion US dollars)** for renewable energy projects." In the **Visayas alone** where **Cebu** is located, there is a shortage of around **60MW by 2015** (<http://www.philstar.com/cebu-news/2013/08/25/1132351/critical-power-situation-expected-december-2015>).

In response to this concern is Concentrated Solar Power (CSP), developed by Advance Solar Technology (AST) in 2002 in the United States. Concentrated Solar Power (CSP) technology harnesses and controls the sun power resources using parabolic dish or linear solar trough and a solar tracking system that uses memory, CPU time, disk space, input and output device. This serve as the delivery method to drive the waste heat generator, concentrated photo voltaic units, thermoelectric to harness solar energy to effectively manage electricity and corresponding utilities and secure data interchanges, energy operations data and other energy-related information needed in research and development.

**Cebu Solar Incorporated (CSI)** is an emerging supplier of Renewable Energy Systems and Solar Technology Integration. CSI is under the Advance Solar Technology (AST), established in 2002 by Tommy Lee Tirey Jr., an American inventor of the Solar Fluid Heating System with US Patent using the parabolic dish concentrating solar power technology.

CSI is a manufacturing business and services corporation which provides the engineering and technical services with a competitive pricing designed to address the concern for a more sustainable energy development system. CSI offers alternative renewable energy solutions to small and medium enterprises to generate savings in their energy consumption and transform them into more efficient and self-sufficient businesses. In addition, this method is environment friendly.

Cebu Solar Incorporated (CSI) is a Cebu-based concentrated solar power manufacturer, providing innovations in the solar power business to make it more affordable to its users in five revenue-generating areas:

#### **1. RE Manufacturing**

- solar dish or component technology
- manufacturing, sales, and distribution of combined heat and power (CHP) products
- power electronics for power generation equipment
- any application requiring quiet, highly reliable, zero-maintenance, low-emission energy solutions.

#### **2. RE Engineering**

- RE Construction design, installation, estimates
- Solar farms
- System Integrator for Green and Smart Building
- Energy Audit
- Energy Management

#### **3. RE Research and Development**

- Solar Dish Development

- Concentrated Photo Voltaic
- Power Electronics
- Waste Heat Generator

**4. Consultancy**

- Green Buildings

**THE ECO-VILLAGE CONCEPT:** the Eco-Village is an innovative approach in co-housing that addresses the pressing need in the Philippines to develop economically attainable and environmentally sustainable housing. This concept goes much further than just providing shelter. It is our intention to develop a project that will be an example of environmental responsibility that respects the land through the implementation of community gardens that will bring families back to the land. Each project will support the long term viability of community in the Philippines through a network of Community Vision Centers that are at the heart of each project. As an integrated approach to the Philippines housing needs, Philippine Eco-Villages will build upon the traditional principles of family, unity, and love. The Eco Village lifestyle can be supported by a whole systems approach of integrated technologies and community services.

**CASH INVESTMENT**

This project proposal needs a funding requirement of **\$ 125,000,000.00**. With this capital funds we will be able to implement our project, integrate our business and demonstrate the feasibility of this project.

**FINANCIAL PROJECTIONS**

7 Years

Projection: **\$125,000,000.00** Investment Requirement

Kw per Day Production	Kw per Month Production	Kw per Year Production	Price/kw	Annual Sales (x50MW)	ROI
6,500	136,500	\$ 1,638,000	\$ 0.23	18,837,000	
				<b>126,207,900</b>	<b>6.5 - 7</b>
					<b>Years ROI</b>

**Cebu Solar Incorporated (CSI)** main thrusts are as follows:

- Helps to provide energy security and reliability in the Philippines (<http://www.philippinespower.com/about-the-conference.php>)
- Helps to protect mother earth by slowing/stopping global warming
- Able to help people and business enterprises/companies to save money
- Helps to provide energy independence and sustainability
- Generates thousands of jobs/employment in the country
- Offers cost-effective/affordable solar product portfolio and other related services
- Extends professional and expert service maintenance to industrial customers and other commercial/business enterprises
- Works hand in hand with the various electric power companies like VECO, CEBECO and the like in the Visayas and expand its collaboration all throughout the country (eg. Meralco)

**Exit Strategy**

CSI is keen on the sale of equity (trade sale) or Initial Public Offering (IPO) after the capital investment has been returned back to the prosperity investors.

