



August 2012

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INTERNATIONAL

◆ *“building sustainable relationships”* ◆

➤ **The Proponent:**

- Bolaar International Energy Inc. is a team of leading professionals in the Solar Industry in Canada. The company offers full service or turn-key solutions to suit individual alternative energy power needs.
- Bolaar, with its partners like Hyundai Corporation and other major manufacturers, world leaders in panel manufacturing, will develop and construct the solar farm. Hyundai Corporation and our other partners are solar module manufacturers that uses low profile stationary thin film photovoltaic arrays which minimize wind loading with positive visual impacts. These modules consume no fuel and create no atmospheric emissions, ground vibrations or water pollution in the generation of electricity.

➤ ALTERNATIVE ENERGY PROPOSAL -SOLAR FARM

➤ Project Proposal:

- A 50MW solar farm designed and constructed to international standards in strict adherence to Local, European and North American environmental standards



- **Project Description:**

- A solar farm is proposed which will collect the energy from the sun using thin film photovoltaic modules and convert it to electrical energy for distribution to the local electricity distribution system. The proposed solar farm will be developed on a 150-200-acre parcel of land located within close proximity of the local electrical grid (sub-station) and capable of producing 10 - 50 MW of electricity.



➤ **Photovoltaic Technology Overview:**

- The proposed solar farm will use thin film photovoltaic modules manufactured by one of our participating partners like Hyundai Corp. The modules utilize a thin film semiconductor layer encapsulated between two sheets of glass that produce electricity when exposed to the sun's rays. Each module produces a total of approximately 75- 125 watts of direct current ("DC") electricity. Solar modules are connected and mounted together to form solar arrays, each containing many rows of solar modules. Depending on its size, a solar farm may contain many arrays.
- The DC electricity produced by the solar arrays is collected and converted into Alternating Current ("AC") by inverters and then sent to a transformer to increase the voltage of the electricity to the same level as the local electricity distribution system. Inverters located at various points throughout the site, are enclosed within a concrete housing for noise reduction and weather protection purposes. Metering, safety disconnect and remote trip equipment is located at the utility connection point where the solar farm is connected to the local electricity distribution system. The local utility can control the solar farm grid connection during power outages or grid disruptions to ensure the safe and reliable operation of the electricity system.

Specification of PV Units

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- **Product and performance guarantee.**
- As a premium manufacturer our partner grants a 10 year product guarantee¹⁾ for our solar modules as well as a five-stage performance guarantee, instead of the typical two-stage guarantee offered on the market. We thus guarantees an output capacity of 95% for the first 5 years after the purchase of a solar module, 90% for 10 years, 87% for 15 years, 83% for 20 years and 80% for 25 years.

Consequently a our customer has a claim to a guaranteed average output capacity of 87% for each module based on a service life of 25 years. These figures refer to the relevant minimum power output listed in the module data sheet.

- **Construction of Project:**

- Construction will take place over approximately 12-18 months, with peak construction activity lasting 3-5 months. The construction will include site preparation, construction of internal site access roads, trenching, installation of posts, tables and modules, construction of PCS and combining switchgear, fencing and required landscaping.
- Local labour will be utilized during the construction period. During the construction period, Bolaar will train local personnel in association with our team to operate and manage the plant after construction.



- **Feasibility Study:**

- A feasibility study will be undertaken and paid for by the Bolaar Team to determine project viability, appropriate location and required approvals. The feasibility study is scheduled to be completed within two to three months.
- Inter-Connectivity assessments will be conducted with the Utility.
- Environmental Impact Study:
- An environmental impact study will be conducted by Bolaar and its partners to determine any and all impacts to the surrounding environment.



The Purchase Power Agreement is the agreement between the government and or the power utility giving Bolaar and its partners the right to charge a rate usually less than the existing KWh rate for the electricity generated.

- The government or the utility company normally pays for the electricity generated over the life of the contract.

Project Size: 50 MW initially with regional expansion

- Feed in Tariff (Government Instituted) with PPA rate with reviews.
- No PPA changes or charges if project not complete by contracted date (within reason)

- **Project Financing:**

- The project will be 100% financed by Bolaar and its partners including the acquisition or long term lease of the land. However, the locating (as close to the sub-station as possible) and the initial leasing discussions will become the responsibility of the local entity.

- The project's construction, materials and viability will be fully guaranteed by Bolaar International and its partners.
- Unlike most other developers whose panels only operate for a fraction of the warranty period our panels are constructed in our factory and guaranteed for the 20 - 25year period.

- Identify land area of about 150 acres in size as appropriate project location (As close as possible to a sub-station preferably within one mile).
- Have the ability to obtain for Bolaar International and its partners a **Letter Of Invitation** from an Official of Government, inviting us to sit and discuss alternative energy solution, specifically solar.
- Have the ability to direct us to the decision makers regarding the signing of a **Power Purchase Agreement** with the government and/or the local utility company.
- Have the ability to discuss and possibly negotiate preliminary tax concessions
- Have the ability to familiarize us with the customs and procedures of the local economy.