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## PRODUTOS / MÁQUINAS

Comprehensive solutions for the photovoltaic market- The Amelio Solar team brings together world leaders in the development, manufacturing and installation of photovoltaic (PV) technology and systems. The company is a provider of low-cost, advanced thin-film PV module (solar panel) technology and related product manufacturing and power-generation solutions, including: • Full turn-key PV module factory design and installation • PV module product manufacturing, supply, and distribution • Large commercial and utility-scale PV power plant systems design and installation

Proven technology from the most experienced team- The Amelio Solar team is among the most experienced and accomplished in the photovoltaics industry, drawing on 40 years of innovation leadership including: • developing and commercializing thin-film photovoltaic technology, including creating an industry-standard process for thin-film photovoltaic module manufacturing • deploying more than a dozen thin-film photovoltaic module factories around the world • installing one of the world's first photovoltaic power plants, many other landmark photovoltaic power projects, and innovative building-integrated PV systems With major partners and customers in the U.S., Europe, Asia, the Middle East, Africa and Latin America, Amelio Solar is poised to become one of the largest solution providers in the photovoltaic technology and energy industry.

Thin Film Photovoltaic Technology: a Revolution in Solar Energy Amelio Solar personnel are pioneers in the research, development, manufacturing, and installation of thin-film photovoltaic modules. This technology is transforming the solar energy industry by making photovoltaic modules more affordable and accessible, shattering the cost and supply barriers of the traditional technology. Traditional solar panels are comprised of interconnected Crystalline Silicon semiconductor wafers, a highly-processed material which is increasingly expensive due to its high manufacturing cost and a global supply shortage. Thin-film photovoltaic modules, however, are made by coating a pane of glass or other substrate with a very thin film of active photovoltaic material which does not contain Crystalline Silicon. The resulting product costs 50% to 70% less to manufacture (per Watt of module power output), provides greater energy yields (more kWh for each kW installed), and is more versatile than traditional photovoltaic modules. Amelio Solar's thin-film solutions include Amorphous Silicon and, now in testing, the new, more efficient Copper Indium Gallium DiSelenide (CIGS) scheduled for commercial production in late 2009.

Diverse Applications Amelio Solar's thin film photovoltaic modules are well suited to a variety of large-scale and discrete power generation applications: • Utility-scale power plants and smaller, localized power systems • High-volume generation of renewable, low-cost, clean power • Commercial, industrial and residential photovoltaic systems • On-site power generation lowers electricity costs while providing clean, renewable energy • Building-integration transforms exterior surfaces, including walls and windows, into energy-producing assets. For close to the price of architectural glass, buildings instead can be covered with photovoltaic glass, enhancing design and reducing energy costs. • Critical infrastructure power in remote areas • Power supply for water pumps, telecommunications towers, medical clinics, schools, housing and other infrastructure in locations not accessible to a conventional power grid

Lowest-Cost Solution Provider The Amelio Solar team pioneered and has spent decades deploying and refining, the process for manufacturing thin-film photovoltaic modules, from the chemistry of the photovoltaic materials to the design and fabrication of the manufacturing equipment to the programming of the software that controls each production step. Through this experience and effort, Amelio Solar has achieved the lowest cost per Watt to set up photovoltaic module factories and also the lowest cost per Watt to manufacture photovoltaic modules. Amelio Solar's ability to "vertically integrate" also enables the company to achieve the lowest cost per Watt to deploy photovoltaic power plants, thereby reducing the effective cost to generate photovoltaic electricity. Combining its lowest-cost photovoltaic module factory deployment and production capabilities with the installation of a power plant, Amelio Solar can provide the lowest-cost source and remove supply chain costs for the photovoltaic modules which comprise the power plant.

Amelio Solar Partnership and Project Opportunities Amelio Solar works with businesses and governments worldwide to deploy photovoltaic module factories and power plants, and to integrate photovoltaics into new real estate developments and existing structures. Amelio Solar can provide technical, operational and financial resources. These projects deliver significant, long-term value to partners, including: • Self-produced, renewable supply of clean, affordable electricity • Increased business revenues and reduced energy costs • Economic growth; manufacturing/technical jobs in a major industry • Less need for coal, hydro, other ecologically-harmful energy sources

Company Profile of **Amelio Solar, Inc.**

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