

# GT Solar International, Inc. Fundamental Company Report Including Financial, SWOT, Competitors and Industry Analysis

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## Abstracts

GT Solar International, Inc. Fundamental Company Report provides a complete overview of the company's affairs. All available data is presented in a comprehensive and easily accessed format. The report includes financial and SWOT information, industry analysis, opinions, estimates, plus annual and quarterly forecasts made by stock market experts. The report also enables direct comparison to be made between GT Solar International, Inc. and its competitors. This provides our Clients with a clear understanding of GT Solar International, Inc. position in the [Semiconductor](#) Industry.

The report contains detailed information about GT Solar International, Inc. that gives an unrivalled in-depth knowledge about internal business-environment of the company: data about the owners, senior executives, locations, subsidiaries, markets, products, and company history.

Another part of the report is a SWOT-analysis carried out for GT Solar International, Inc.. It involves specifying the objective of the company's business and identifies the different factors that are favorable and unfavorable to achieving that objective. SWOT-analysis helps to understand company's strengths, weaknesses, opportunities, and possible threats against it.

The GT Solar International, Inc. financial analysis covers the income statement and ratio trend-charts with balance sheets and cash flows presented on an annual and quarterly basis. The report outlines the main financial ratios pertaining to profitability, margin analysis, asset turnover, credit ratios, and

company's long-term solvency. This sort of company's information will assist and strengthen your company's decision-making processes.

In the part that describes GT Solar International, Inc. competitors and the industry in whole, the information about company's financial ratios is compared to those of its competitors and to the industry. The unique analysis of the market and company's competitors along with detailed information about the internal and external factors affecting the relevant industry will help to manage your business environment. Your company's business and sales activities will be boosted by gaining an insight into your competitors' businesses.

Also the report provides relevant news, an analysis of PR-activity, and stock price movements. The latter are correlated with pertinent news and press releases, and annual and quarterly forecasts are given by a variety of experts and market research firms. Such information creates your awareness about principal trends of GT Solar International, Inc. business.

### **About GT Solar International, Inc.**

GT Solar International, Inc. provides polysilicon production technology, crystalline ingot growth systems, and related photovoltaic manufacturing services for the solar industry.

The company's principal products are chemical vapor deposition (CVD) reactors and related equipment used to produce polysilicon, the key raw material used in silicon-based solar wafers and cells; and directional solidification systems (DSS) furnaces and related equipment used to cast multicrystalline ingots by melting and cooling polysilicon in a precisely controlled process. These ingots are used to make photovoltaic (PV) wafers which are, in turn, used to make solar cells.

### **Segments**

The company operates through two segments, Polysilicon Business and Photovoltaic Business.

#### **Polysilicon Business**

Polysilicon Business offers CVD reactors and related equipment engineering services, such as trichlorosilane (TCS) and silane engineering services to existing polysilicon

producers and new market entrants. The company's CVD reactors utilize the non-proprietary Siemens process, a used and polysilicon production process.

**CVD reactors:** The company sells CVD reactors that produce polysilicon. It markets its CVD reactors under the names SDR200 and SDR300. Its SDR200 CVD reactors are producing at levels of approximately 200 MT of polysilicon annually and its SDR300 CVD reactors.

Customers for its polysilicon products include chemical companies and power generation companies that are entering the polysilicon market and solar wafer and cell manufacturers that are vertically integrating the production of polysilicon into their operations. All of the components for its CVD reactors are manufactured by third parties using its designs.

**Polysilicon services, parts and other:** In addition to CVD reactors for polysilicon manufacturing, the company also provides technology and engineering services for the commissioning, start-up and optimization of its equipment and technology. The company provides the basic engineering packages and process licenses for the production and purification of trichlorosilane and silane. The company offers hydrochlorination technology.

### Photovoltaic Business

Photovoltaic Business manufactures and sells DSS crystallization furnaces and ancillary equipment required in the operation of DSS crystallization furnaces to cast multicrystalline silicon ingots.

**DSS Crystallization Furnaces:** The company's DSS furnace is a specialized furnace used to melt polysilicon and cast multicrystalline ingots. Polysilicon is placed into a quartz crucible and the crucible is then loaded into the chamber of the DSS furnace where it is cast into multicrystalline ingots under precise heating and cooling conditions. Multicrystalline ingots are used to produce solar wafers, which ultimately become solar cells. The company has developed proprietary control software systems to automate the operation of the furnace during all stages of the crystal growth process. The company markets its DSS crystallization furnaces under the names DSS240, DSS450, and DSS450HP.

All of the components and assemblies for its DSS furnaces are manufactured by third parties using its designs. It also provides engineering and product design, quality

control, process engineering and engineering services related to the operation of its DSS furnaces.

**Ancillary equipment:** The company's capacity DSS furnaces, the DSS450 and DSS450HP are capable of producing ingots that weigh up to 450 kilograms. Its ancillary equipment provides operators with material handling assistance during the preparation of the crucible before it is loaded with silicon and during the loading and unloading of the crucible into the DSS furnace chamber at the start of the growth process and out of the DSS furnace chamber at the conclusion of the ingot growth process. The company's ancillary equipment includes crucible coating stations, crucible manipulators, extraction tools and other material handling systems required to safely transport material during the ingot growth process. The company reports ancillary equipment revenue as other PV equipment.

**Photovoltaic Parts and Services:** The company sells replacement parts and consumables used in its DSS furnaces and other PV equipment. It also offers a range of services in connection with the sale of equipment, including facility design, equipment installation and integration, technical training, and manufacturing process optimization.

**Turnkey Integration Services:** The company offers integration services, using third party wafer, cell and module production equipment designed to produce a specified level of output. These services are sold to new market entrants in connection with the construction of new PV manufacturing facilities.

## Customers

The company sells its products and services globally to polysilicon producers and solar wafer, cell and module manufacturers. Its major customer is LDK Solar Co., Ltd. The company's customers include solar companies as well as companies in the chemical industry.

## Competition

**Polysilicon Business:** The company's CVD reactor products and other related services face direct competition from a small number of new entrants to the polysilicon production market. These competitors include MSA Apparatus Construction for Chemical Equipment Ltd, Centrotherm Elektrische Anlagen GmbH & Co., Morimatsu Industry Co. Ltd., and Poly Plant Project, Inc. It also faces indirect competition from companies that produce polysilicon primarily for the semiconductor industry. These

indirect competitors include Hemlock Semiconductor Corporation, Wacker Chemie AG, Tokuyama Corporation, MEMC Electronic Materials, Inc., Renewable Energy Corporation ASA, and M Setek Company Ltd.

Photovoltaic Business: The company's competitors include ALD Vacuum Technologies AG, JYT Corporation, Ferrotec Corporation, PVA TePla AG, Centrotherm Elektrische Anlagen GmbH & Co., and Jing Gong Technology.

## History

GT Solar International, Inc. was founded in 1994.

The above Company Fundamental Report is a half-ready report and contents are subject to change.

It means that we have all necessary data in our database to prepare the report but need **2-3 days** to complete it. During this time we are also updating the report with respect to the current moment. So, you can get all the most recent data available for the same price. Please note that preparation of additional types of analyses requires extra time.

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1 – Data availability depends on company's security policy.

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## ANALYSIS FEATURES

### SWOT Analysis

SWOT, which stands for Strengths, Weaknesses, Opportunities and Threats, is an analytical framework that identifies the internal and external factors that are favorable and unfavorable for a company.

### Enhanced SWOT Analysis

Enhanced SWOT is a 3x3 grid that arranges strengths, weaknesses, opportunities and threats into one scheme:

How to use the strengths to take advantage of the opportunities?

How to use the strengths to reduce likelihood and impact of the threats?

How to overcome the weaknesses that obstruct taking advantage of the opportunities?

How to overcome the weaknesses that can make the threats a reality?

Upon answering these questions a company can develop a project plan to improve its business performance.

### PESTEL Analysis

PESTEL (also termed as PESTLE) is an ideal tool to strategically analyze what influence different outside factors – political, economic, sociocultural, technological, environmental and legal – exert on a business to later chart its long term targets.

Being part of the external analysis when carrying out a strategic assessment or performing a market study, PESTEL gives an overview of diverse macro-environmental factors that any company should thoughtfully consider. By perceiving these outside environments, businesses can maximally benefit from the opportunities while minimizing the threats to the organization.

## Key Factors Examined by PESTEL Analysis:

**Political** – What opportunities and pressures are brought by political bodies and what is the degree of public regulations' impact on the business?

**Economic** – What economic policies, trends and structures are expected to affect the organization, what is this influence's degree?

**Sociological** – What cultural and societal aspects will work upon the demand for the business's products and operations?

**Technological** – What impact do the technological aspects, innovations, incentives and barriers have on the organization?

**Environmental** – What environmental and ecological facets, both locally and farther afield, are likely to predetermine the business?

**Legal** – What laws and legislation will exert influence on the style the business is carried out?

## **IFE, EFE, IE Matrices**

The Internal Factor Evaluation matrix (IFE matrix) is a strategic management tool helping audit or evaluate major weaknesses and strengths in a business's functional areas. In addition, IFE matrix serves as a basis for identifying and assessing relationships amongst those areas. The IFE matrix is utilised in strategy formulation.

The External Factor Evaluation matrix (EFE matrix) is a tool of strategic management that is typically utilised to assess current market conditions. It is an ideal instrument for visualising and prioritising the threats and opportunities a firm is facing.

The essential difference between the above mentioned matrices lies in the type of factors incorporated in the model; whilst the latter is engaged in internal factors, the former deals exceptionally with external factors – those exposed to social, political, economic, legal, etc. external forces.

Being a continuation of the EFE matrix and IFE matrix models, the Internal External matrix (IE matrix) rests upon an investigation of external and internal business factors

integrated into one suggestive model.

### **Porter Five Forces Analysis**

The Porter's five forces analysis studies the industry of operation and helps the company find new sources of competitive advantage. The analysis surveys an industry through five major questions:

What composes a threat of substitute products and services?

Is there a threat of new competitors entering the market?

What is the intensity of competitive rivalry?

How big is the bargaining power of buyers?

How significant is the bargaining power of suppliers?

### **VRIO Analysis**

VRIO stands for Value, Rarity, Imitability, Organization. This analysis helps to evaluate all company's resources and capabilities and bring them together into one aggregate table that includes:

Tangible resources

Financial

Physical

Technological

Organizational

Intangible resources

Human

Innovation and Creativity

## Reputation

### Organizational capabilities

The result of the analysis gives a clear picture of company's competitive and economic implications, answering the questions if the resources mentioned above are:

Valuable?

Rare?

Costly to imitate?

Organized properly?

## I would like to order

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