

# Novellus Systems, Inc. Fundamental Company Report Including Financial, SWOT, Competitors and Industry Analysis

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## Abstracts

Novellus Systems, 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 Novellus Systems, Inc. and its competitors. This provides our Clients with a clear understanding of Novellus Systems, Inc. position in the [Semiconductor](#) Industry.

The report contains detailed information about Novellus Systems, 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 Novellus Systems, 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 Novellus Systems, 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 Novellus Systems, 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 Novellus Systems, Inc. business.

## **About Novellus Systems, Inc.**

Novellus Systems, Inc. develops, manufactures, sells, and supports equipment used in the fabrication of integrated circuits, commonly called chips or semiconductors. The company also develops, manufactures, sells, and supports grinding, lapping and polishing equipment for a spectrum of industrial applications.

### Segments

The company operates in two reportable segments, the Semiconductor Group and the Industrial Applications Group.

#### Semiconductor Group

The Semiconductor Group manufactures and supplies thin-film deposition and surface preparation systems used in the fabrication of integrated circuits.

#### Semiconductor Products

The Semiconductor Group's products include equipment used in the deposition of thin dielectric (insulating) and metal (conductive) films, as well as equipment used in

complementary manufacturing steps, including surface preparation (photoresist strip) and ultraviolet thermal processing (film annealing). Integrated circuits are generally built on a silicon wafer substrate, and include different components, such as transistors, capacitors, and other electronic devices. These components are connected on the silicon wafer by multiple layers of wiring, called interconnects.

The company's semiconductor manufacturing products are used in different process steps. Its advanced deposition systems use chemical vapor deposition (CVD), physical vapor deposition (PVD), and electrochemical deposition (ECD) processes to form transistor, capacitor, and interconnect layers in an integrated circuit. The company's High-Density Plasma CVD (HDP-CVD) and Plasma-Enhanced CVD (PECVD) systems employ chemical plasma to deposit dielectric material within the gaps formed by the etching of aluminum, or as a blanket film which can be etched with patterns for depositing conductive materials into the etched dielectric. The company's CVD tungsten systems are used to deposit conductive contacts between transistors and interconnects, or between layers of metal interconnect wiring. Its PVD systems deposit conductive aluminum and copper metal layers by sputtering metal atoms from the surface of a target source. The company's Electrofill ECD systems deposit copper to form the conductive wiring on integrated circuits using copper interconnects.

**Deposition Technologies:** The company offers products that address the needs of manufacturers across a different deposition technologies — CVD, PVD and ECD.

**CVD Products:** In the CVD process, manufacturers place wafers in a reaction chamber, introduce various metered gases into the chamber, and then add a form of energy to activate a chemical reaction that deposits a film on the wafers. The CVD process is the traditional method used to deposit dielectric films on wafers. Manufacturers also use CVD to deposit conductive metal layers, particularly tungsten, as it is difficult to deposit such layers on devices with very small features when using conventional PVD or other deposition technologies.

#### HDP CVD Products

**SPEED NExT** — The SPEED NExT system for 300mm wafers is designed specifically to address the needs of dielectric gap fill at 65 nanometers.

**SPEED Max** — SPEED Max offers significant processing flexibility and productivity advantages over the SPEED NExT system, and extends the HDP CVD application to the 45 and 32 nm technology nodes.

## W-CVD Products

ALTUS DirectFill — The ALTUS DirectFill tungsten nitride/tungsten deposition system is designed for advanced contact and via-fill applications at 65 nanometers and below. ALTUS DirectFill simplifies the tungsten deposition process by replacing the standard multi-tool approach with a single three-module system.

ALTUS Max — The ALTUS Max CVD tungsten deposition system delivers advanced contact and via fill technology in a platform that delivers approximately 120 wafers-per-hour throughput.

## PECVD Products

VECTOR — VECTOR is a PECVD system for depositing dielectric films on 300mm wafers. It offers three versions of VECTOR: the VECTOR Express, optimized for deposition of thin films of approximately 1000 angstroms; the VECTOR Express AHM for ashable hard mask film deposition; and the VECTOR Extreme, designed for the d

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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## 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?

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