

**MANUFACTURE**  
**SOLAR PANELS**  
**(POLYCRYSTALLINE AND**  
**MONOCRYSTALLINE)**



**INVEST IN RENEWABLE ENERGY.**

# Introduction

***A Solar panel consists of a number of solar modules, which are connected in series and parallel configuration to provide specific voltage and current to charge a battery. Photovoltaic Solar Panels constitute the solar array of a photovoltaic system that generates and supplies solar electricity in commercial and residential applications.***

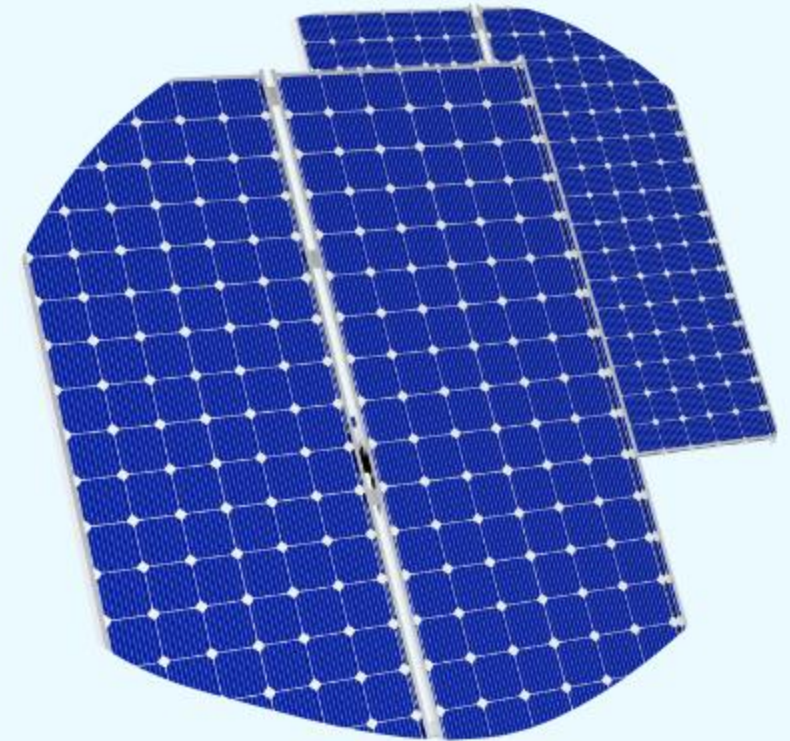
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***Each module is rated by its DC output power under standard test conditions, and typically ranges from 100 to 365 watts. A single solar module can produce only a limited amount of power; most installations contain multiple modules. A photovoltaic system typically includes a panel or an array of solar modules, a solar inverter, and sometimes a battery and/or solar tracker and interconnection wiring.***



**Monocrystalline solar Solar Panels are generally utilized for large scale solar applications, such as commercial and residential solar installations. They can also be employed for smaller scale applications, and the size of the panel is based on the type of application.**



- **Related Feasibility Study Reports: Renewable Energy Sector, Green Power, Solar Energy, Biofuel, Hydroelectric, Wind, Geothermal, Biomass, Non-conventional Energy, New and Renewable Energy Projects**

# Uses

***The most common and primary use of solar Solar Panels is to convert sunlight into electricity. The light from your roof can be converted into electricity that you can use in your home for lighting, electronics, appliances, and more.***

- **Business Plan: Solar Panel (both type of the PV Cells: Polycrystalline and Monocrystalline)**



***In addition to powering your home directly with electricity from the sun, solar power can be used to run a water pump if you live in an area where water pressure is an issue. This is also called off-grid power. You can also use your generated solar energy to charge batteries.***



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# Manufacturing Process

*There are two fundamental procedures to making Solor Solar Panels. Silicon (Si) crystals are first produced into polycrystalline or monocrystalline cells. Polycrystalline cells are less efficient than monocrystalline cells. After that, each cell is coated with an electrically conducting substance such as metal tin or indium.*



***When light strikes the cells, this layer helps transmit electricity from one cell to the next. In terms of layer thickness, monocrystalline and polycrystalline cells have different requirements; for example, a silicon-based coating may work for a monocrystalline cell but not for a polycrystalline one.***



- **Read our Books Here: [Environmentally Friendly, Eco-Friendly Products, Natural Products, Biodegradable Plastics, Natural Dyes and Pigments, Jute Products, Natural Fibers](#)**



# Machinery Photographs

## Semi Automatic Laminator



## GLASS CONDENSERS



## Solar Module Tester



## EL Detector



# Market Outlook

***In the projected period 2021-2028, the global solar power market is estimated to increase at a CAGR of 6.9%, from \$184.03 billion in 2021 to \$293.18 billion in 2028.***

***With the unrelenting shift toward renewable energy, the worldwide solar panel industry is accelerating.***



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***Due to the rapid adoption of solar generation capacity, the EU, Asia-Pacific, Mexico, and Australia are also emerging as the most attractive markets. Because of rising electricity rates and cheaper solar Solar Panels, this industry expansion is projected to continue in the coming years.***



***Rising demand for solar Solar Panels in the residential rooftop solar industry, as well as cheap prices for polysilicon and silver used in solar cell manufacture, will help the market accelerate in the coming years. Furthermore, the falling cost of solar Solar Panels has prompted governments in a number of countries to take more initiatives and provide subsidies, which is projected to aid the growth of the residential solar panel market.***



# PROJECT AT A GLANCE

<a href="http://www.entrepreneurindia.co">www.entrepreneurindia.co</a>	PROJECT			MEANS OF FINANCE				<a href="http://www.niir.org">www.niir.org</a>
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total	
Land & Site Development Exp.	0.00	565.00	565.00	Capital	0.00	2143.83	2143.83	
Buildings	0.00	652.80	652.80	Share Premium	0.00	0.00	0.00	
Plant & Machineries	0.00	4912.00	4912.00	Other Type Share Capital	0.00	0.00	0.00	
Motor Vehicles	0.00	20.00	20.00	Reserves & Surplus	0.00	0.00	0.00	
Office Automation Equipments	0.00	231.00	231.00	Cash Subsidy	0.00	0.00	0.00	
Technical Knowhow Fees & Exp.	0.00	1.00	1.00	Internal Cash Accruals	0.00	0.00	0.00	
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	6431.48	6431.48	
Preliminary& Pre-operative Exp	0.00	10.00	10.00	Debentures / Bonds	0.00	0.00	0.00	
Provision for Contingencies	0.00	486.00	486.00	Unsecured Loans/Deposits	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	1697.51	1697.51					
<b>TOTAL</b>	<b>0.00</b>	<b>8575.31</b>	<b>8575.31</b>	<b>TOTAL</b>	<b>0.00</b>	<b>8575.31</b>	<b>8575.31</b>	

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS				Per Share					
	USD	USD	USD	USD	USD	%	USD	%	USD		%
1-2	671.91	1090.55	681.91	2400.00	0.00	100.00	671.91	0.00	671.91	1.00	0.00
2-3	914.87	1272.40	1596.77	1800.00	0.00	100.00	914.87	0.00	914.87	1.00	0.00
3-4	1163.44	1468.94	2760.21	1200.00	0.00	100.00	1163.44	0.00	1163.44	1.00	0.00
4-5	1409.69	1670.86	4169.91	600.00	0.00	100.00	1409.69	0.00	1409.69	1.00	0.00
5-6	1651.06	1874.44	5820.97	0.00	0.00	100.00	1651.06	0.00	1651.06	1.00	0.00



Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribut ion	P/V Ratio		
	(Number of times)			(Number of times)	%	%	%	%	%	%				
<b>Initial</b>				<b>3.00</b>	<b>3.00</b>									
<b>1-2</b>	<b>1.56</b>	<b>1.56</b>		<b>1.44</b>	<b>1.44</b>	<b>4.39</b>		<b>9.57%</b>	<b>4.98%</b>	<b>3.64%</b>	<b>15405.33</b>	<b>38.94%</b>	<b>2.05</b>	<b>1.12</b>
<b>2-3</b>	<b>1.82</b>	<b>1.69</b>		<b>0.70</b>	<b>0.70</b>	<b>2.94</b>		<b>10.46%</b>	<b>6.32%</b>	<b>4.25%</b>	<b>9246.10</b>	<b>20.03%</b>	<b>2.11</b>	<b>1.21</b>
<b>3-4</b>	<b>2.15</b>	<b>1.83</b>	<b>2.16</b>	<b>0.32</b>	<b>0.32</b>	<b>2.09</b>		<b>11.05%</b>	<b>7.29%</b>	<b>4.73%</b>	<b>10359.19</b>	<b>19.64%</b>	<b>2.12</b>	<b>1.31</b>
<b>4-5</b>	<b>2.54</b>	<b>1.99</b>		<b>0.12</b>	<b>0.12</b>	<b>1.56</b>		<b>11.46%</b>	<b>7.98%</b>	<b>5.09%</b>	<b>11472.28</b>	<b>19.33%</b>	<b>2.09</b>	<b>1.41</b>
<b>5-6</b>	<b>3.00</b>	<b>2.16</b>		<b>0.00</b>	<b>0.00</b>	<b>1.22</b>		<b>11.73%</b>	<b>8.48%</b>	<b>5.37%</b>	<b>12585.37</b>	<b>19.09%</b>	<b>2.04</b>	<b>1.62</b>

**BEP**

<b>BEP - Maximum Utilisation Year</b>	<b>5</b>
<b>Cash BEP (% of Installed Capacity)</b>	<b>40.19%</b>
<b>Total BEP (% of Installed Capacity)</b>	<b>44.00%</b>

**IRR, PAYBACK and FACR**

<b>Internal Rate of Return .. ( In %age )</b>	<b>30.25%</b>
<b>Payback Period of the Project is ( In Years )</b>	<b>2 Years 3 Months</b>
<b>Fixed Assets Coverage Ratio ( No. of times )</b>	<b>17.541</b>

- 1. What is Solar Panels (Polycrystalline and Monocrystalline) Manufacturing industry ?**
- 2. How has the Solar Panels (Polycrystalline and Monocrystalline) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Solar Panels (Polycrystalline and Monocrystalline) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing plant ?**

- 5. What is the structure of the Solar Panels (Polycrystalline and Monocrystalline) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing Business?**
- 7. What are the operating costs for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing Business?**
- 12. What is the Manufacturing Process of Solar Panels (Polycrystalline and Monocrystalline)?**

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- 15. What are the Projected Balance Sheets of Solar Panels (Polycrystalline and Monocrystalline) Manufacturing plant ?**
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- 17. What is the Built up Area Requirement and cost for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing Business?**

**18. What are the Personnel (Manpower) Requirements for setting up Solar Panels (Polycrystalline and Monocrystalline) Manufacturing Business?**

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# TAGS

***#DetailedProjectReport***

***#BusinessIdeas***

***#StartupBusinessIdea***

***#EntrepreneurIndia***

***#NPCSProjects***

***#BusinessConsultant***

***#ProjectReport***

***#Startup #BusinessOpportunity #BusinessPlan #Business***

***#SolarPanelManufacturing***

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***#SolarPanelProduction***

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- ✓ **The report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- ✓ **This report provides vital information on the product like it's characteristics and segmentation**
- ✓ **This report helps you market and place the product correctly by identifying the target customer group of the product**

- ✓ **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- ✓ **The report provides a glimpse of government regulations applicable on the industry**
- ✓ **The report provides forecasts of key parameters which helps anticipate the industry performance and make sound business decisions**

# Our Approach

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

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**NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.**

**Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.**

**And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:**

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

**The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,**

**Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.**

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)**



## Who are we?



AN ISO 9001 : 2015 CERTIFIED COMPANY

**A trusted and leading name in the industry, we have been putting forth exceptionally integrated and comprehensive technical consultancy services. We believe that project consultancy serves as a critical element for the success of your projects. Moreover, we keep in mind that no client is the same and nor are the requirements. Therefore, we ensure uniqueness in every service you avail from us.**

# What do we offer?

- **Project Identification**
- **Detailed Project Reports/Pre-feasibility Reports**
- **Market Research Reports**
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- **Industry Trend**
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- **Turnkey Project Consultancy/Solutions**
- **Entrepreneur India (An Industrial Monthly Journal)**

## How are we different ?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision

## **Who do we Serve?**

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations

# Our Approach

**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**

## Sectors We Cover



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- Ayurvedic And Herbal Medicines, Herbal Cosmetics
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- Aluminium And Aluminium Extrusion Profiles & Sections,
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- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
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- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct
- Copper & Copper Based Projects

- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing
- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
- Infrastructure Projects
- Jute & Jute Based Products

- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.



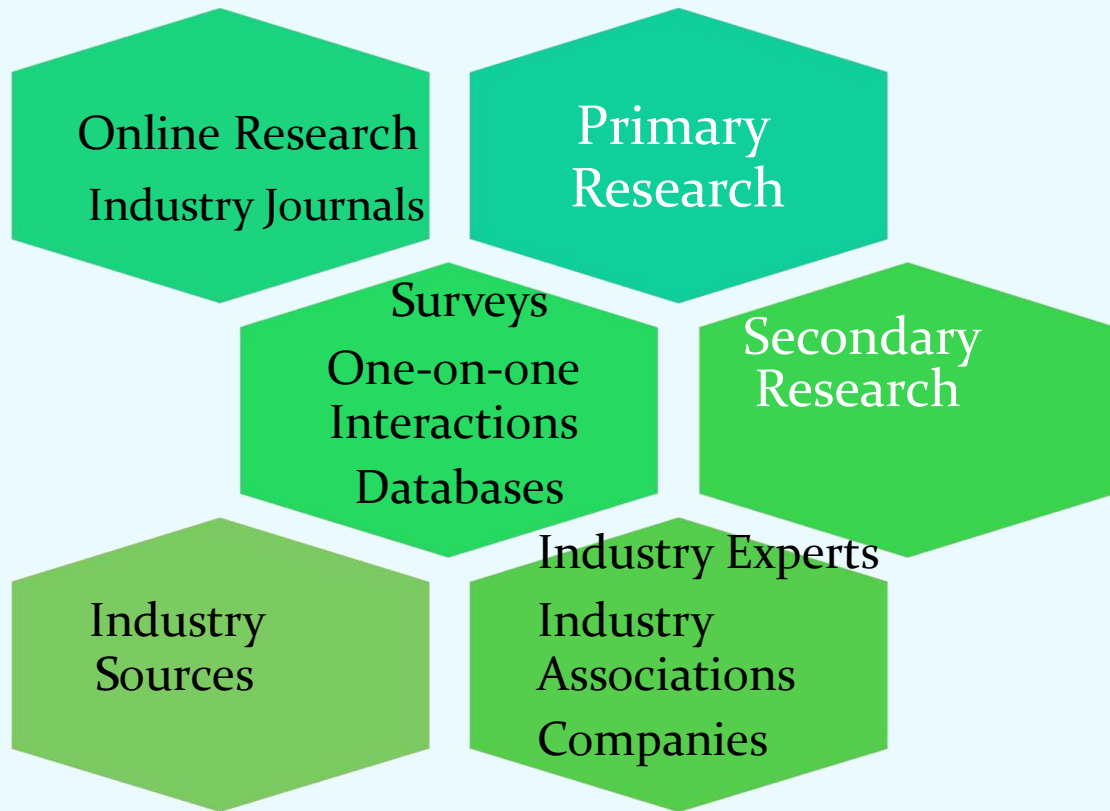
- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable

- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
  - Growth drivers of the industry
  - Latest market trends
  - Insights on regulatory framework
  - SWOT Analysis
  - Demand-Supply Situation
  - Foreign Trade
  - Porters 5 Forces Analysis
- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
  - Key players with their market shares
  - Financial comparison of present players

- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
- Corporates

[Click here for list](#)

# Data Sources



# Scope & Coverage



# Our Team



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✧ Our research team comprises of experts from various financial fields:

✧ MBA's

✧ Industry Researchers

✧ Financial Planners

✧ Research veterans with decades of experience

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# Contact us

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[google-street-view](https://www.google.com/maps/@28.6452711,77.1002815,15z)

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A close-up photograph of a hand holding a blue fountain pen, writing the words 'Thank you!' in a cursive, blue ink on a white surface. The pen is positioned at the end of the word 'you!', with the nib just finishing the final stroke of the exclamation point. The background is a soft, out-of-focus white.

Thank you!

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