Production of Epoxy Resins: An Investment Opportunity.

Application (Paints & Coatings, Adhesives & Sealants, Composites),

End-Use Industry (Building & Construction, Aerospace, Wind Power, Marine, Consumer Goods)

Global Epoxy Resin Market Demand Expected to Reach USD 11.22 Billion by 2021



<u>Introduction</u>

Epoxy resins which are also known as polyepoxides belong to the category of reactive prepolymers and polymers that contain the epoxide group. Epoxy resins are one of the most versatile compounds that are widely used in the orthophthalic and polyester family. Epoxy resins usually react either with themselves or with other co-reactants which include phenols, acids, alcohols, polyfunctional amines and thiols among others. Epoxy resins are either low molecular weight pre-polymers or high molecular weight polymers which usually contain at least two epoxide groups. The epoxide group is also known as oxirane and glycidyl group. The raw material required to industrially manufacture epoxy resins are largely derived from petroleum.



Epoxy resin is a thermosetting synthetic polymer having properties such as adhesive strength, luster, and hardness. Epoxy resins are available in the form of liquid as well as high viscosity solid. Epoxy resins are segmented on the basis of applications such as follow-paints & coatings, electrical & electronics, wind energy, construction, and composites.





Epoxy resin is extensively used as an insulation material for the electronics and electrical applications that require protection in extreme and dangerous environments (such as, chemical plant equipment, deep sea, and engine management), owing to the properties, such as high physical and mechanical strength, good dimensional stability, excellent dielectric properties, etc. It is used to keep generators, switches, transformers, and motors dry, clean, and free of shorts. Increasing rate of consumption of electrical and electronics equipment on commercial scale in China and India is expected to drive the demand for epoxy resins.



Epoxide resins, which constitute the epoxide functional group, are thermosetting polymers that are gaining popularity in the manufacturing sector due to their superior physical properties. The global epoxy resins market has benefited from the diversity of end use sectors, as steady technological progression and the need for consistent development in hardware to accompany it has made epoxy resins a vital material in the current technological scenario. The rising demand from industries such as electrical and electronics, fiber reinforced plastics, and metal coatings is likely to enable steady growth of the global epoxy resins market in the coming years.



However, some of the plant derived sources are becoming popular in manufacturing epoxy resins. Epoxy resins being polymeric or semi-polymeric materials and thus, are rarely exist in their pure state. Epoxy resins are known for their excellent electrical, mechanical and heat resistance properties. The epoxide content in the epoxy resins is the most crucial factor which determines the characteristics of epoxy resins. Different grades of epoxy resins are usually blended with various additives, plasticizers and fillers. Epoxy resins find wide range of applications in paints and coatings, electrical and electronic components and structural adhesives manufacturing industries. The paint and coatings industry is one of the major applications of the epoxy resins market.



Growing population coupled with changing lifestyle is expected to boost the overall growth of the construction industry. The growing construction industry is expected to augment the growth of the paints and coatings industry. The paints and coating industry is expected to further grow owing to the rising demand from the automobile industry. The rising demand for high end luxury automobiles is further expected to enhance the overall growth of the paints and coatings industry. Thus, the growing paints and coatings industry is expected to drive the overall growth of the epoxy resins market.



Epoxy resins are w9idely used by the paints and coating industry on the heavy duty metal substrates. In addition, paints and coatings containing epoxy resins use less energy than that compared to other heat-cured powder coatings. Moreover, paints and coatings containing epoxy resins are also considered environmental friendly than other chemicals.





The paints & coatings industry is the largest market for epoxy resins in terms of volume and revenue. The market penetration can be attributed to demand from automotive, construction and industrial applications. Epoxy resin-based paints and coatings are used in wall coatings of food storage and manufacture, tank lining, swimming pools finishes, seal coats, wet rooms, waterproofing and decorative finishes, and water treatment plants. Thus, the growing paint & coating industry and the consequent demand for epoxy resins is expected to drive the demand for epoxy resins within the forecast period.

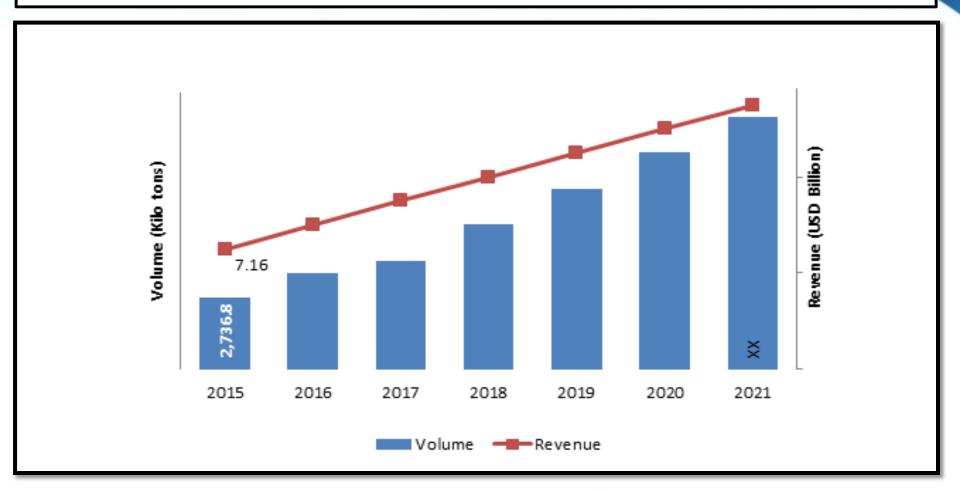


Electrical and electronics segment accounted for 34.0% share of the total global epoxy resin market in 2015, followed by paints and coatings. Composites are expected to witness highest growth rate owing to increasing demand for high strength lightweight composite materials from aerospace, automotive and defense industries.





Global Epoxy Resin Market, 2015-2021 (Kilo Tons) (USD Billion)



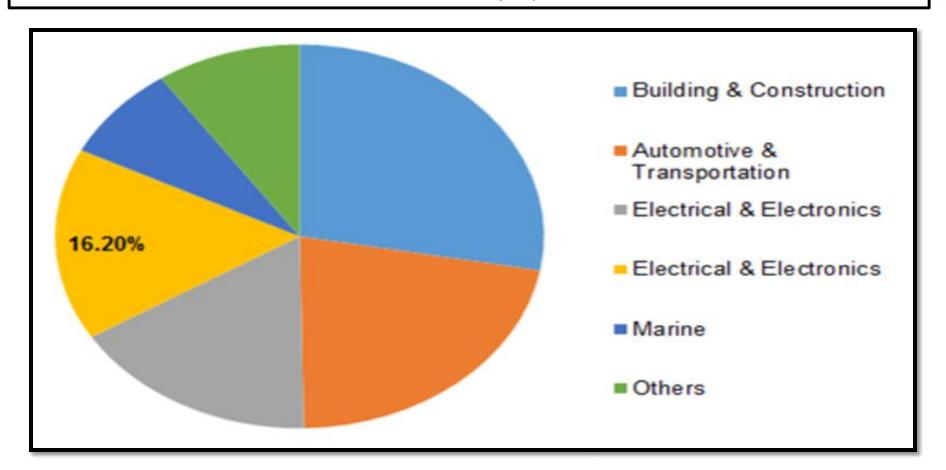


The Global Epoxy Resin Market is estimated to grow at CAGR of 5.24% to reach USD 10,620.5 million by the end of 2023. The factors positively influencing the market are the increasing epoxy based composites demand from automotive & transportation industry and steady growth of construction industry.





Global Epoxy Resin Market Share, by Application, 2016 (%)

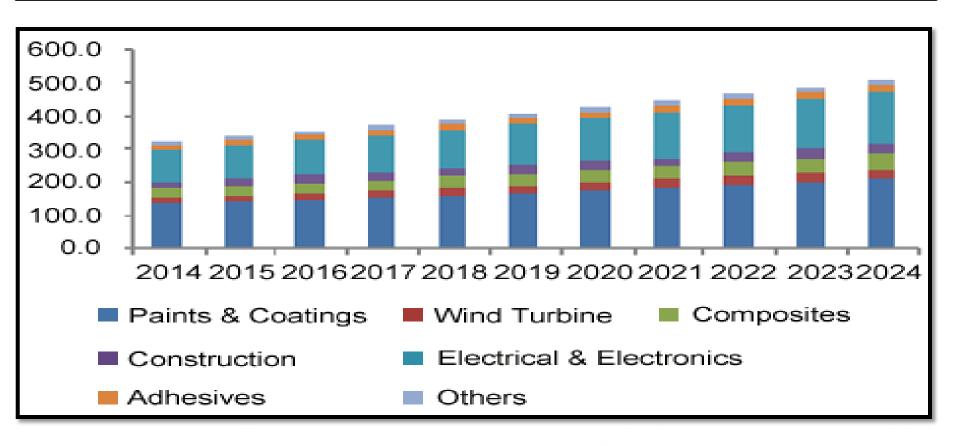




Favorable properties such as high thermal stability, mechanical strength, moisture resistivity, and adhesion, electrical, mechanical and heat resistance make epoxy resins suitable for various end-use applications such as laminates, jewelry, insulators and industrial applications.



U.S. Epoxy Resin Market Volume by Application, 2014 - 2024 (Kilo Tons)





Epoxy demand from the composite material application is anticipated to emerge as the fastest growing application segment and is the mostly favoured thermoplastic resin utilized in developing polymer composites owing to their superior properties. Rising demand for light weight material with superior performance from automotive and aviation industry in order to increase fuel efficiency and reduce carbon emissions is expected to drive market growth over the forecast period.



The booming global construction industry is indirectly a prime driver for the global epoxy resins market, as the demand for epoxy resins from the paints and coatings industry is rising steadily. Epoxy resins impart stability to paint and coating formulations and are thus likely to be in demand in the coming years. The construction industry has recovered smoothly from the 2008-09 crash and is set for resurgent growth in the coming years, particularly in developing regions such as Asia Pacific and Latin America. This will remain an important driver for the global epoxy resins market.



The global epoxy resins market has also benefited from the steady growth in the use of epoxy resins in the aviation sector. Epoxy resins provide enhanced mechanical strength and high resistance to temperature extremes. The reduction in weight enabled by the use of epoxy resins is also much sought after in the aerospace industry, since it results in a significant decline in expenditure on fuel. As a result, the epoxy resins market is likely to receive steady demand from the aviation and aerospace sector in the coming years. The rising entry of private companies in the space exploration and aviation sector is also likely to have a crucial impact on the development trajectory of the epoxy resins market.



Project at a Glance

PROJECT AT A GLANCE						(Rs. in lacs)	
COST O	F PROJE	ECT			MEANS	OF FINA	ANCE
	Existin	Propose			Existin	Propos	
Particulars	g	d	Total	Particulars	g	ed	Total
Land & Site							
Development Exp.	0.00	12.00	12.00	Capital	0.00	20.75	20.75
Buildings	0.00	15.40	15.40	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	29.25	29.25	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	2.50	2.50	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	9.95	9.95	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	3.00	3.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	62.24	62.24
Preliminary& Pre-							
operative Exp	0.00	1.00	1.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	3.00	3.00	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00						
TOTAL	0.00	82.99	82.99	TOTAL	0.00	82.99	82.99
							T nnce



Project at a Glance

Year	Annu	alised	Book Value	Debt	Divide nd		ined ings	Payou t	Probab le Market Price		Yield Price/ Book Value
	ED0	0500	D (21	Per	D (21			No.of	
	EPS	CEPS	Per	Share	Share	Per S	Share			Times	
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs		%
1-						100.0					
2	4.84	8.73	14.84	24.00	0.00	0	4.84	0.00	4.84	1.00	0.00
						100.0					
2-3	7.82	11.20	22.66	18.00	0.00	0	7.82	0.00	7.82	1.00	0.00
						100.0					
3-4	10.73	13.68	33.38	12.00	0.00	0	10.73	0.00	10.73	1.00	0.00
						100.0					
4-5	13.50	16.08	46.89	6.00	0.00	0	13.50	0.00	13.50	1.00	0.00
						100.0					
5-6	16.12	18.37	63.00	0.00	0.00	0	16.12	0.00	16.12	1.00	0.00



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Individ Cumula Over

(Number of times)

1.29

1.44

1.60

1.78

1.96

www.entrepreneurindia.co

1.96

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Initi al

1-

1.29

2-3 1.60

3-4 1.97

2.41

2.92

2

4-5

5-6

(Number of

times)

3.00

1.62

0.79

0.36

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0.00

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Debt

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%

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10.65

%

12.17

13.17

%

13.83

%

14.24

%

PBT

%

Profitability Ratio

PAT

%

4.78% 3.44% 81.87

7.20% 4.77% 95.51

8.89% 5.72%

10.07% 6.40%

10.88% 6.88%

Asset Curre

Turno Ratio

nt

1.00

1.20

1.45

1.73

2.47

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Ratio

2.56

2.76

2.79

2.72

2.59

P/V

%

28.07

%

28.07

%

%

%

109.1 28.07

122.8 28.07

136.4 28.07

5

0

4

Net

bution

Contri Ratio

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	57.83%
Total BEP (% of Installed Capacity)	61.26%
IRR, PAYBACK and FACR	
Internal Rate of Return (In %age)	25.86%
	2 Years 2

Payback Period of the Project is (In Years)

Fixed Assets Coverage Ratio (No. of times)



Months

10.671

Major Queries/Questions Answered in the Report?

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



- 5. What is the structure of the Epoxy Resins Manufacturing Business and who are the key/major players?
- 6. What is the total project cost for setting up Epoxy Resins Manufacturing Business?
- 7. What are the operating costs for setting up Epoxy Resins Manufacturing plant?
- 8. What are the machinery and equipment requirements for setting up Epoxy Resins Manufacturing plant?



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Epoxy Resins Manufacturing plant?
- 10. What are the requirements of raw material for setting up Epoxy Resins Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Epoxy Resins Manufacturing Business?
- 12. What is the Manufacturing Process of Epoxy Resins?



- 13. What is the total size of land required for setting up Epoxy Resins Manufacturing plant?
- 14. What will be the income and expenditures for Epoxy Resins Manufacturing Business?
- 15. What are the Projected Balance Sheets of Epoxy Resins Manufacturing plant?
- 16. What are the requirement of utilities and overheads for setting up Epoxy Resins Manufacturing plant?
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- 18. What are the Personnel (Manpower)
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- 20. What is the time required to break-even of Epoxy Resins Manufacturing Business?
- 21. What is the Break-Even Analysis of Epoxy Resins Manufacturing plant?
- 22. What are the Project financials of Epoxy Resins Manufacturing Business?



- 23. What are the Profitability Ratios of Epoxy Resins Manufacturing Project?
- 24. What is the Sensitivity Analysis-Price/Volume of Epoxy Resins Manufacturing plant?
- 25. What are the Projected Pay-Back Period and IRR of Epoxy Resins Manufacturing plant?
- 26. What is the Process Flow Sheet Diagram of Epoxy Resins Manufacturing project?



- 27. What are the Market Opportunities for setting up Epoxy Resins Manufacturing plant?
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Reasons for Buying our Report:

- This 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 to 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



Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Epoxy Resin." provides an insight into Epoxy Resin market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Epoxy Resin project. The report assesses the market sizing and growth of the Indian Epoxy Resin 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

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 the Epoxy Resin sector in India along with its business prospects. Through this report we have identified Epoxy Resin project as a lucrative investment avenue.



Tags

Manufacturing Process of Epoxy Resins, Manufacturing Process of Epoxy Resins, Making of Epoxy Resins, Process for Manufacture of Epoxy Resins, Epoxy Resin Manufacturing Plant, Epoxy Resin Plant, Epoxy Resin Production Plant, Epoxy Resin Manufacture, Epoxy Resin Manufacturing Unit, Epoxy Resin Production, Epoxy Resins in Industry, Manufacture of Epoxy Resins, Epoxy Resins Production Unit, Epoxy Resin Manufacturing Process Pdf, Epoxy Resin Manufacturing Project, Epoxy Resin Process Flow sheet, Manufacturing Process of Epoxy Pdf, Epoxy Resins Manufacturing Technology, Manufacturing of Epoxy Resins, Production of Epoxy Resins, Formulation and Manufacturing Process of Epoxy Resins, Epoxy Resin Formulation, How Epoxy Resin is Made? Epoxies in Building and Construction, Epoxy Resin Production Process, Epoxy Resin Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Epoxy Resin Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Epoxy Resin Manufacturing Industry in India,



Epoxy Resin Manufacturing Projects, New project profile on Epoxy Resin Manufacturing industries, Project Report on Epoxy Resin Manufacturing Industry, Detailed Project Report on Epoxy Resin Manufacturing, Project Report on Epoxy Resin Manufacturing, Pre-Investment Feasibility Study on Epoxy Resin Production, Techno-Economic feasibility study on Epoxy Resin Production, Feasibility report on Epoxy Resin Manufacturing, Free Project Profile on Epoxy Resin Manufacturing, Project profile on Epoxy Resin Production, Download free project profile on Epoxy Resin Production, Startup Project for Epoxy Resin Manufacturing, Project report for bank loan, Project report for bank finance, Project report format for bank loan in excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel



Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Production of Epoxy Resins:

An Investment Opportunity.

Application (Paints & Coatings, Adhesives & Sealants, Composites), End-Use Industry (Building & Construction, Aerospace, Wind Power, Marine, Consumer Goods)

Global Epoxy Resin Market Demand Expected to Reach USD 11.22 Billion by 2021

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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



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

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- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services
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What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Business Plan
- Technology Books and Directory
- O Industry Trend
- Databases on CD-ROM
- Laboratory Testing Services
- 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



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

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