

# Sustainability is the Future of the Chemical Industry

**Executive Summary Report** 

PREPARED BY Pukka Partners

GPU 12%

DISK 7%

64%

Executive Summary Report

# ABOUT PUKKA PARTNERS





Pukka Partners provide customized intelligence solutions to C-suite executives and functional growth leaders, with sound expertise in business research, strategy consulting, advisory, business intelligence, and data analytics.

We offer advisory and actionable insights around public policies, investment tracking along with the obstacles faced by investors, innovation and strategy impact monitoring, identification of industry potential, and technology mapping through comprehensive and standardized research methodology and tools.

We deploy our solutions to solve prioritized and critical business challenges by leveraging our in-house expertise as well as continuous engagement with industry thought leaders in the business ecosystem.

In a short span of time, our consultants have had the opportunity to engage and deliver domain & sector specific tailor-made strategic projects to top executives and functional growth leaders, empowering them to make informed business decisions.

Our success is directly linked to our client's growth, and we ensure to exceed it every time we engage with our existing clients and future prospects. We aim to be a knowledge partner for our customers and gradually become their trusted intelligence provider.

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## Market Size, 2020 (in USD)



- As of 2020 the green technology and sustainability market stands at \$11.2 billion. It is expected to grow with a CAGR of ~27% and reach ~\$74 billion by 2028.
- USA accounts for the largest market share as of 2020 majorly because of its broad base in green technology and sustainability vendors in the region. The adoption of high-end technology is expected to boost the growth of green technology solutions in North America.
- The APAC is expected to be a favorable market for investments and has the highest CAGR during the forecast period. The APAC economies are expected to offer new market opportunities to the vendors operating in green technology and sustainability market, leading to adoption of green technology solution in the region. This growth can be attributed to the focus of developing countries, such as China, India, and Singapore, on the integration of advanced technologies to enhance business processes.



## 30% Energy Sector

Burning of coal and oil, for energy and fuel, making products like plastic contribute to highest GHG emission in this sector. Emissions from this sector is steadily increasing at 1.7% annually

## **16%** Transportation Sector

Passenger vehicles emit an average of 4.6 metric CO2 per year. Road transportation has caused 12% of the emissions comes from road transport, 2% from aviation, long haul flight, 1.7% from shipping.

# 18% Agriculture Sector

Emissions from agriculture is further divided into 5.8% by Livestock & manure, 4.1% synthetic nitrogen fertilizers are applied to soils, 3.5% from crop burning, 2.2% from deforestation.

## 10% Fashion Industry

20% industrial water pollution, 23% of all chemical produce year, 85% of human made debris on shorelines, 90% of wastewater discharge into rivers in developing countries are caused by Fashion industry











## Market Dynamics – Trends & Drivers (1/2)





### **Market Trends**

## Sustainability

The chemicals industry and its served end markets are evolving along with the growing emphasis on sustainability, and new industrial ecosystems are emerging.

## Digitalisation

40% of chemical companies are using digital technologies to increase efficiency and 32% are applying digital technologies to drive growth. But only 11% are doing both.

### Portfolio Diversity

Succeed in a time of uncertainty and rapid change, it's essential to stay agile — to adjust portfolios, extend value chains upstream and/or downstream, keep operations flexible, shed assets and capture growth opportunities.

### Driving the Industry

#### **Consumer Awareness**

Consumer trends have a significant impact on the drive for sustainability. Consumers are betterinformed, and the younger generation is demanding more openness and accountability.











During 2020 period, 32.55% of Dow Chemicals' sales were from USA, 33.65% from Europe, Middle East, Africa and India and 33.8% from rest of the world

Singapore — Sinopec plans to import 17.4 million mt of LNG in 2021 and produce 34 Bcm of natural gas, including about 12 Bcm of shale gas, in an effort to meet domestic demand

BASF Group are forecasting slightly higher sales in the Surface Technologies, Chemicals, Agricultural Solutions and Nutrition & Care segments, and a slight year-on-year decline in the

Sabic said "Even without Covid-19 impact, supply still exceeds demand for our key products, which will continue to pressure product prices and margins for the foreseeable future,"

LG chemical and battery maker, whose wholly-owned battery subsidiary LG Energy Solution supplies Tesla Inc & General Motors Co, posted operating profit of 1.4 trillion.

LyondellBasell recorded the revenue generated in 2020 to be least in past 10 years. Imports of raw material fell in US market, especially as volumes from China have collapsed since last summer.



#### Steps taken by State Government

- Uttar Pradesh has major chemical producing companies, from Industrial chemicals, Agro chemicals, to polymers, resins and rubbers
- Gujarat is chemical hub of the country contributing 62% of Petrochemical production, 53% of chemical production and 45% of Pharmaceuticals production.
- Orissa provides Incentives for PCPIR, like 10%-25% capital subside for plant and machinery, Power tariff reimbursement, 100% SGST reimbursement.
- Global chemical giants like Dow Chemical, BASF, Pidilite Industries all have their corporate offices and manufacturing units in Mumbai, Maharashtra.
- The chemical exports from Tamil Nadu grew at a CAGR of 13.5% between 2013-14 & 2017-18. It is emerging as a major exporter of basic chemicals.



#### **Central Government Policies & Schemes**

- Government to invest Rs 8 lakh crore in Chemical Industry by 2025 under PLI scheme
- The government plans to implement PLI system with 10-20% output incentives for the agrochemical sector
- Union Budget 2021-22, allocated Rs. 233.14 crore to the Department of Chemicals and Petrochemicals.
- 100% FDI is allowed for chemicals sector with few exceptions that include hazardous chemicals.
- 100% Income Tax exemption on export income for SEZ units for the first five years
- Under new PCPIR Policy 2020-35, a combined investment of Rs. 10 lakh crore is targeted by 2025, Rs. 15 lakh crore by 2030 and Rs. 20 lakh crore by 2035 in all PCPIRs across the country.



The start of last decade saw a shift in chemical industry towards the sustainability. A decade later, covid 19 pandemic has accelerated the shift, change in the investor sentiment towards Chemical industry is a proof of that. There is an increased awareness among the young generation towards sustainability. The senior management of the companies have analysed this trend and are making their companies policies accordingly. The sustainability in the policies of the company is seen majorly in the new chemical start-ups. Among the companies which are making new sustainability policies 45% are companies with revenue ranging between \$ 500 – \$ 1 billion, 40% are companies with revenue ranging between \$ 10 billion and 15% are companies with revenue over \$ 10 billion.

The industry is going through a major global disruption in supply chain. China which is a global leader in chemical raw material, due to its new environmental policies, has shut down many mining and chemical industries, leading to reduction in global supply of raw material. Therefore, the global companies are moving towards sustainability, green economy and circular economy supply Chain.

Increasing uncertainty in the industry has made the players to diversify their portfolio. Companies can grow earnings in different operating environments if they build a product portfolio that can withstand changes in macroeconomic trends. Companies should focus on divestments of noncore or underperforming assets to raise cash during the economic downturn, industry players that are well-prepared and have robust balance sheets can look at making smart acquisitions that create greater long-term shareholder value.

In the coming year, chemical companies should keep an eye on these larger trends shaping consumer preferences and the end-market environment in order to focus on new growth opportunities and extract more value from current resources and assets.



# THANK YOU

Asia Pacific

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