

# A Bumpy Transition for the Geosynthetics Industry but “Everything will be Beautiful in the End”

By GNA Editor

## Forrest Trump



Donald Trump calls tariffs "a very beautiful thing to behold" because they bring billions of dollars into the U.S. and are necessary to correct financial deficits with countries like China and the European Union. After imposing tariffs and facing market volatility, Trump maintained that "everything will be beautiful in the end" once the transition problems associated with these tariffs are resolved.

It is early days, but what are some possible implications for our geosynthetic industry for producers and raw material suppliers?

### Lucky Winners

The lucky companies could be the USA-based producers that have expanded or improved their USA plant capacities in recent years. They are not sitting behind a tariff wall with new or improved production capability and even higher

capacity that can be substituted for the imported products. Possibly even at a higher price. Their timing has been lucky.

### **Unlucky Companies**

USA producers with supply chains from outside the USA are now scrambling to manage the impact on their cost base. This includes raw materials and finished goods from China, India and other countries. Some companies will have goods on the water or on order that will be impacted. Swapping to domestic supply chains may not be simple or quick.

Companies that export to USA face their products being sold in the market at a higher price. The logical outcome is reduced demand but the final market shakeout will take the rest of 2025 to see how much demand for imported product is swapped to products Born in the USA.

### **The Chinese Elephant in the Rose Garden**

China is the main tariff target. An obvious impact is Chinese producers expanding their export markets in Africa, Asia and Europe. The Chinese President is visiting Vietnam, Cambodia and Malaysia in April to present China as a reliable trading partner.

What is less clear is the impact on American companies with operations in China. Tensar and TRI are two examples of USA owned companies that have regional activities in China. Maybe there is no impact.

### **Known Unknowns and Unknown Unknowns**

International ocean freight costs will adjust to reflect the new trading patterns.

The use of fiscal stimulus by countries to spur their economy on has yet to materialise but there is speculation for a China stimulus which is good for geosynthetics in infrastructure.

The emergence of new trading bloc or country-specific protectionist measure is uncertain. The winners would be regional or local producers.

And the Taiwanese black swan remains always present.

## **The Impact of Trump's Tariffs on HDPE Geosynthetics Market**

### **- Economic, Geographical, and Business Impact of US Tariffs on the HDPE Geosynthetics Market**

The imposition of U.S. tariffs on imported HDPE geosynthetics has led to increased production costs, affecting project budgets across infrastructure and construction sectors. Geographically, the impact is most significant in regions heavily reliant on imports, such as the southern and coastal states. Domestically, manufacturers may benefit from reduced foreign competition, potentially boosting local production. However, the broader business impact includes supply chain disruptions and project delays, especially for contractor's dependent on affordable imports. Overall, while the tariffs aim to support U.S. industry, they also introduce market volatility and pricing pressure.

### **Economic Impact: Rising Costs and Market Adjustments**

- **Increased Production Costs**

In the HDPE geosynthetics market, increased production costs driven by rising raw material prices, energy expenses, and labour rates are putting pressure on manufacturers and end users alike. These higher costs are being passed down the supply chain, leading to inflated prices for infrastructure, agricultural, and industrial projects. Small to mid-sized contractors are particularly affected, facing tighter margins and reduced competitiveness. Additionally, cost volatility is prompting companies to reassess procurement strategies and seek local sourcing options. This trend could reshape market dynamics and favour vertically integrated producers.

- **Higher Consumer Prices**

In the HDPE geosynthetics market, higher production and import costs are translating directly into increased prices for consumers, particularly in sectors like construction, agriculture, and water management. These elevated prices are impacting project affordability and leading to delays or downsizing of planned infrastructure developments. Municipalities and private developers alike are feeling the squeeze, as budgets struggle to keep pace with the surging costs. As a result, some consumers are exploring alternative materials or suppliers, potentially altering long-standing purchasing patterns.

- **Reduced Profit Margins**

In the HDPE geosynthetics market, reduced profit margins are becoming a growing concern for manufacturers, distributors, and contractors alike. Rising input costs, coupled with limited ability to fully pass these increases onto customers due to competitive pressures, are squeezing earnings. Smaller firms, in particular, are vulnerable as they lack the scale to absorb cost hikes efficiently. This margin compression is leading to tighter cash flows, restrained investment in innovation or capacity expansion, and in some cases, consolidation within the industry.

- **Impact on Investments**

The HDPE geosynthetics market is witnessing a slowdown in investments as rising costs, tariffs, and market uncertainty dampen investor confidence. Companies are becoming more cautious, delaying or scaling back plans for capacity expansion, technology upgrades, and R&D initiatives. This hesitancy is particularly evident among smaller players and those heavily reliant on imports. Additionally, fluctuating demand and pricing volatility are making it harder to forecast returns, further discouraging long-term commitments. As a result, market growth potential may be hindered in the near term.

### **Geographical Impact: Shifting Market Dynamics**

#### **United States: Tariff Impacts and Domestic Production Push**

1. **Tariff Impacts:** U.S. tariffs on imported HDPE geosynthetics have raised import costs, leading to price hikes and supply chain disruptions, particularly affecting regions dependent on foreign suppliers.
2. **Domestic Production Push:** In response, there's a renewed emphasis on boosting domestic manufacturing capacity, with investments in local production facilities aimed at reducing reliance on imports and stabilizing supply.

#### **Asia-Pacific: Opportunities and Challenges**

1. **Opportunities:** Rapid urbanization and infrastructure development across countries like China, India, and Southeast Asia are driving strong demand for HDPE geosynthetics, creating significant growth opportunities for regional manufacturers.

2. **Challenges:** However, fluctuating raw material prices, environmental regulations, and competition from low-cost producers present ongoing challenges to profitability and market stability in the region.

### **Europe: Trade Agreements and Competitive Pressures**

1. **Trade Agreements:** European Union regulations, such as the Circular Economy Action Plan, promote the use of sustainable materials in infrastructure projects, encouraging the adoption of HDPE geosynthetics made from recycled content such as geonets.
2. **Competitive Pressures:** HDPE geosynthetics in Europe face competition from alternative materials like PVC, PP, and EPDM, which may be preferred for specific applications due to factors such as cost, performance, and familiarity.

### **Emerging Markets: Opportunities for Growth**

1. **Infrastructure Development:** Emerging economies, particularly in Asia-Pacific and Latin America, are investing heavily in infrastructure projects such as water distribution systems, sewage treatment plants, and landfills, driving significant demand for HDPE geosynthetics.
2. **Agricultural Advancements:** The expansion of agricultural activities in countries like India and China necessitates efficient irrigation systems, where HDPE liners are preferred for their durability and leak-resistant properties.

### **Business Impact: Supply Chain Disruptions and Strategic Shifts**

1. **Supply Chain Disruption**
  - The HDPE geosynthetics market has faced significant supply chain disruptions due to global resin shortages, logistical bottlenecks, and geopolitical tensions, leading to delayed deliveries and increased costs for manufacturers and end users.
2. **Competitive Dynamics**
  - The HDPE geosynthetics market is highly competitive, with players vying on price, product quality, and innovation while consolidation among major manufacturers is reshaping market share and intensifying pressure on smaller firms.
3. **Strategic Shifts by OEMs**

- Original Equipment Manufacturers (OEMs) in the HDPE geosynthetics market are actively pursuing strategies such as mergers and acquisitions to diversify product offerings and expand market reach.

## **Key Strategies for B2B Stakeholders: Proactive Adaptation**

### **1. Supply Chain Diversification**

- In the HDPE geosynthetics market, companies are diversifying their supply chains by forming strategic partnerships and acquiring specialized firms to enhance operational efficiency and expand market reach. For instance, manufacturers are collaborating with raw material suppliers and distributors to streamline production and distribution processes. Additionally, investments in advanced manufacturing technologies, such as multi-layer extrusion techniques, are being made to improve product quality and meet diverse customer needs. These efforts aim to mitigate risks associated with supply chain disruptions and position companies competitively in a dynamic market landscape.

### **2. Leveraging Trade Agreements**

- In the HDPE geosynthetics market, companies are leveraging trade agreements to access new markets, reduce tariffs, and streamline cross-border logistics. Agreements like the USMCA and EU free trade pacts enable manufacturers to expand exports while maintaining cost competitiveness. By aligning with these frameworks, firms can enhance global reach, optimize supply chains, and better navigate regulatory environments.

### **3. Innovation Focus**

- In the HDPE geosynthetics market, innovation is focused on integrating smart technologies, such as IoT-enabled sensors, to enable real-time monitoring of pipeline conditions, enhancing maintenance efficiency and reducing downtime. Additionally, advancements in manufacturing techniques, including 3D printing and multi-layer extrusion, are improving geosynthetics' performance and sustainability. The industry is also emphasizing the use of recycled materials to produce eco-friendly geosynthetics, aligning with global sustainability goals.



## **Adapting to Tariff-Induced Market Shifts**

In the HDPE geosynthetics market, companies are adapting to tariff-induced market shifts by localizing supply chains, increasing domestic production, and seeking alternative sourcing strategies. These adjustments help mitigate cost increases and maintain competitiveness in tariff-affected regions. Manufacturers are also investing in innovation and automation to boost efficiency and offset rising input expenses. Additionally, firms are exploring new export markets and leveraging trade agreements to diversify revenue streams and reduce dependency on any single region.

## **Conclusions**

Uncertainty brings caution and hesitation for investment. The immediate focus is on the supply chain and market implications. Companies could be changing their approach to Think Regional, Act Local. Time will tell if “everything will be beautiful in the end”.

# **As Seen In:**

