

## 2. Global PE Capacity

### 2.1 Capacity by Region

Global PE production capacity was xx Mmt in 2025, compared with xx Mmt in 2010. It is expected to reach xx Mmt by 2030 and xx Mmt by 2040. In 2010, Asia Oceania's share in global capacity was xx%, however, substantial investment by China increased its share to xx% in 2025. China currently accounts for a xx% share of the global PE capacity.

Asia Oceania is expected to continue dominating global supply, with nearly a xx% share of global capacity in the short-term forecast, translating into xx Mmt of PE capacity by 2030. Asia Oceania's share is expected to remain stable in the short term. However, in the long-term forecast, Asia Oceania is expected to bring more speculative capacity online, increasing its share to xx% by 2040, with China accounting for a xx% share of global capacity.



Western Europe has the fourth-highest share of capacity at xx%. Central & Eastern Europe, Latin America, and Africa have [redacted] of about xx%, xx% and xx%, respectively.

#### 2025 Global PE Capacity by Region

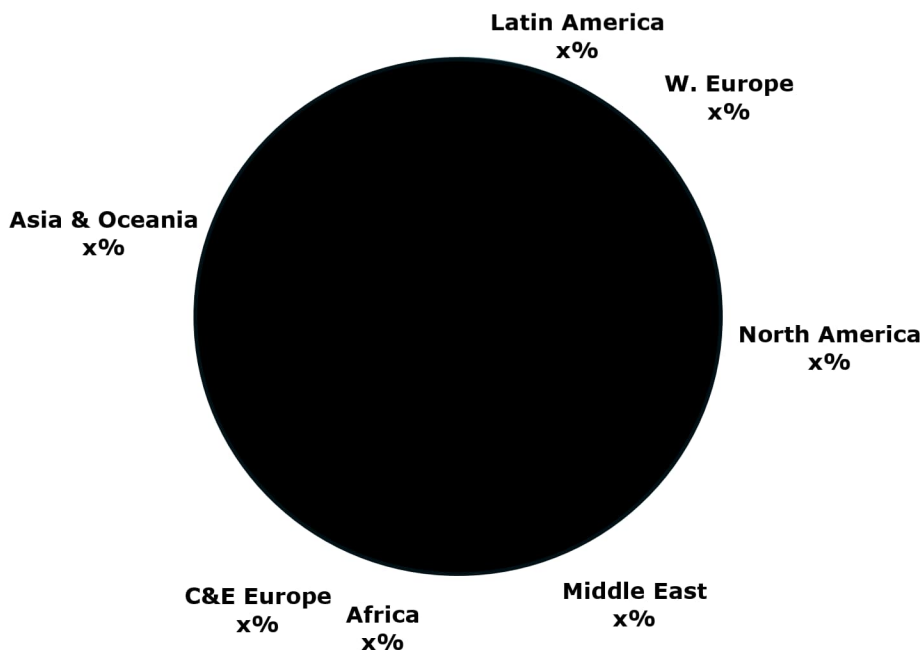


Figure 2: Worley Insights, 2025 Global PE capacity by region

### 3. Demand by Market Segment

#### 3.1 Demand by Region

PE demand continues to grow strongly, supported by rapid industrialization, rising consumption in the packaging and automotive sectors, and ongoing infrastructure development. Demand growth has been increasingly concentrated in Asia Oceania, which has emerged as the center of gravity for global PE consumption.

In 2025, North America and Western Europe remained the PE-consuming regions globally, with consumption of xx Mmt and xx Mmt, respectively. North America's share of global PE demand declined from xx% in 2010 to xx% in 2025, while Western Europe's share fell from xx% to xx% over the same period.

#### PE Demand by Region (2010 – 2040)

| Demand by region         | 2010 | 2020 | 2025 | 2030 | 2040 | CAGR %<br>2010-25 | CAGR %<br>2025-40 |
|--------------------------|------|------|------|------|------|-------------------|-------------------|
| Western Europe           | ■    | ■    | ■    | ■    | ■    | ■                 | ■                 |
| North America            | ■    | ■    | ■    | ■    | ■    | ■                 | ■                 |
| Middle East              | ■    | ■    | ■    | ■    | ■    | ■                 | ■                 |
| Africa                   | ■    | ■    | ■    | ■    | ■    | ■                 | ■                 |
| Central & Eastern Europe | ■    | ■    | ■    | ■    | ■    | ■                 | ■                 |
| Asia Oceania             | ■    | ■    | ■    | ■    | ■    | ■                 | ■                 |
| Latin America            | ■    | ■    | ■    | ■    | ■    | ■                 | ■                 |
| Global                   | ■    | ■    | ■    | ■    | ■    | ■                 | ■                 |

Table 5: Worley Insights, Global PE Demand by Region, 2010-2040 (Mmt)

## Regional Cost Breakdown of Production for PE

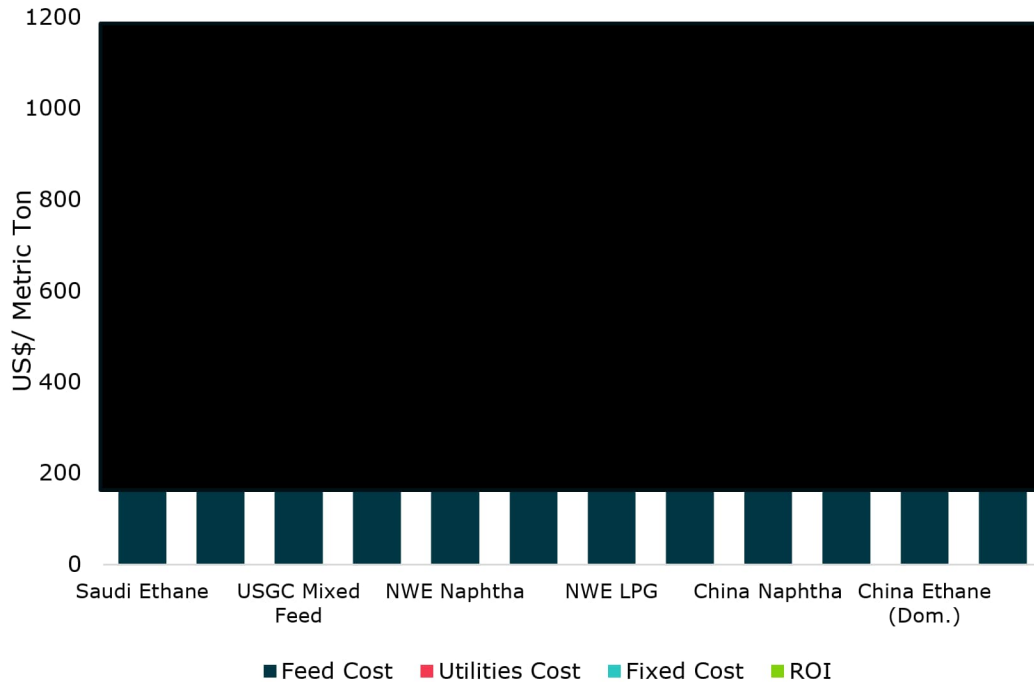


Figure 25: Worley Insights, Breakdown of Cost of Production for PE

As shown in the figure above, the USGC and Saudi archetypes exhibit a [REDACTED] versus other PE producers. Feedstock cost is the far most important cost contributor in PE production as it contributes xx% on average to the cash cost.

On average, ethane (feedstock) cost constitutes nearly xx-xx% of total cash cost. Ethane based PE production has grown rapidly, [REDACTED]