

Dynamic pricing model in petrochemicals

Detailed in supporting pages

Context

- The leading petrochemical producer (polymers and monomers portfolio) in Europe
- Domestic market has significant polymer demand from plastics industry
- Our focus was on their polymer portfolio (26 grades in LDPE, HDPE, PP and PVC); fully commoditized products
- Client's market share:
 - LDPE: ~50%
 - In other products: <10%
- Fierce competition in polymers market, with main competition from Uzbekistan, Iran, US, Europe
- Client has very basic target prices mechanism
- Historically, no incentive system in place for sales team

What McKinsey did

Designed a dynamic pricing model, coupled with an incentive-based performance system

Dynamic pricing model **Petkim inventory**

tracking model

system

Performance (bonus)

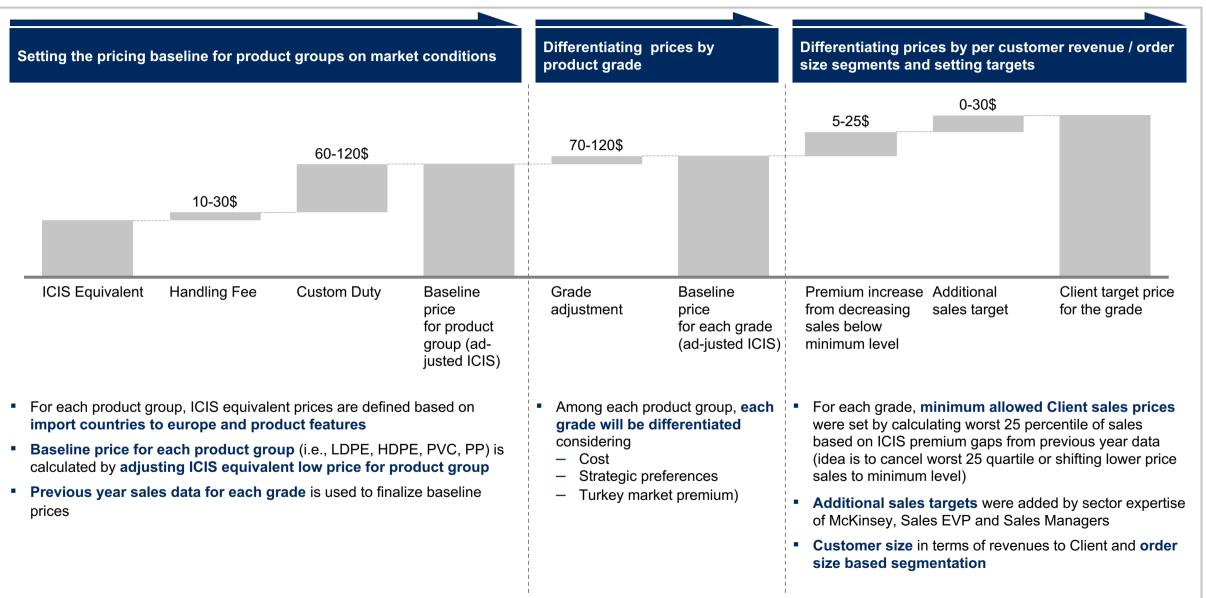
- For each product group
 - Defined ICIS¹ index based target prices, based on relevant import markets and product features
 - Differentiated target for each grade, using past data (cost, strategic preference, etc.)
- Applied customer and order size based segmentation to grades with bigger volumes
- **Set allowed minimum prices** as well to prevent value leakage, by each grade and sales representative

- Designed an inventory tracking model
 - Developed minimum price exception rules based on inventory levels
 - Developed target-based bonus system for sales team, allowing up to 50% variable pay

- **Impact**
 - Dynamic pricing model pilot ongoing for 3 months, with USD >1.5mn impact in 2 months (2% of revenues in scope)
- Achieved significant mindset shift in sales team towards performance oriented culture
- Developed tracking tools to increase transparency and facilitate coaching by sales team managers
- Removed "myths", e.g., continuous concern on inventory levels with no fact basis



We designed 3-level dynamic pricing level setting methodology for our client



We designed an inventory tracking system and integrated it with the dynamic pricing model via a sales authority matrix

How did we design inventory tracking system?

- Past, current and future stock level estimates (by integrating production plan) are added to interpret stock levels
- Market trends (increasing, decreasing, stable) are also considered in optimum inventory levels
- Warning indicators (red, yellow, green) are formulated to show critical stock levels that requires action



How did we integrate it with performance system?

- A sales authority matrix working with different minimum price levels for each grade is designed
- Sales reps can only sell below set minimum price levels with Sales EVP
 / sales manager approval (or information), depending on authority matrix
 indicators
- Authorized person for approval views the customer information and current situation of inventory level via dashboard and approves/denies price decreases below set minimum levels

Stock level	Approval	Information
	Sales EVP	• -
	Sales Manager	Sales EVP
	• –	Sales EVPSales Manager

Pricing team



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