

# Polestar 2025: Strategic Roadmap to Profitability

*Optimizing the supply chain and balancing growth in a volatile market*

Strategic Analysis & Recommendations



Immediate focus must shift from volume growth to achieving positive unit economics to secure long-term viability.



### Critical Financial Position

- ✚ Polestar faces a structural crisis: **Gross Margin at -43.1%** which means every unit sold destroys shareholder value.
- ✚ Revenue declined by **-14% YoY** in 2024, signalling acute market challenges and pricing weakness.
- ✚ SG&A cost reductions are insufficient to overcome the structural loss at gross profit level



### The Scalability Trap

- ✚ Aggressive expansion is a trap; the current cost structure will only accelerate cash burn.
- ✚ Supply chain presents critical risks: **Battery Packs** have **48 days** lead time and are classified as High Risk.
- ✚ Sustainability targets (**36.2 tCO<sub>2</sub>e / vehicle**) necessitate costly logistics adjustments, driving cost pressure.

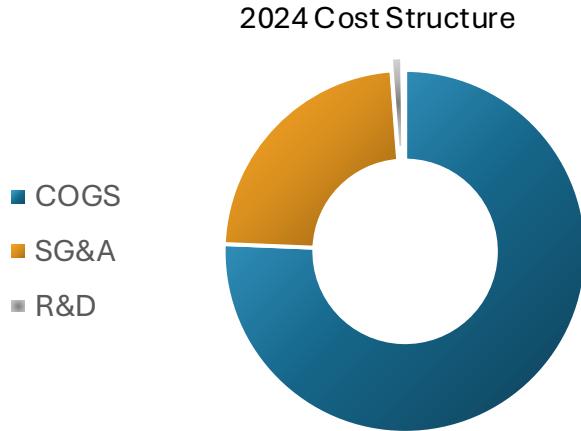


### Strategic Pivot: Value over Volume

- ✚ Execute a fundamental "Pivot" from volume chasing to value-based selling:
  - ✚ **Pricing:** Implement a **15% price increase** (Scenario 3) to immediately restore unit economics.
  - ✚ **Cost:** Renegotiate supplier contracts to **lower COGS** and initiate design-to-cost programs.



Current cost structure is unsustainable: COGS exceed revenue per unit,  
Creating structural loss.



#### Structural Cost implications

##### COGS Dominance

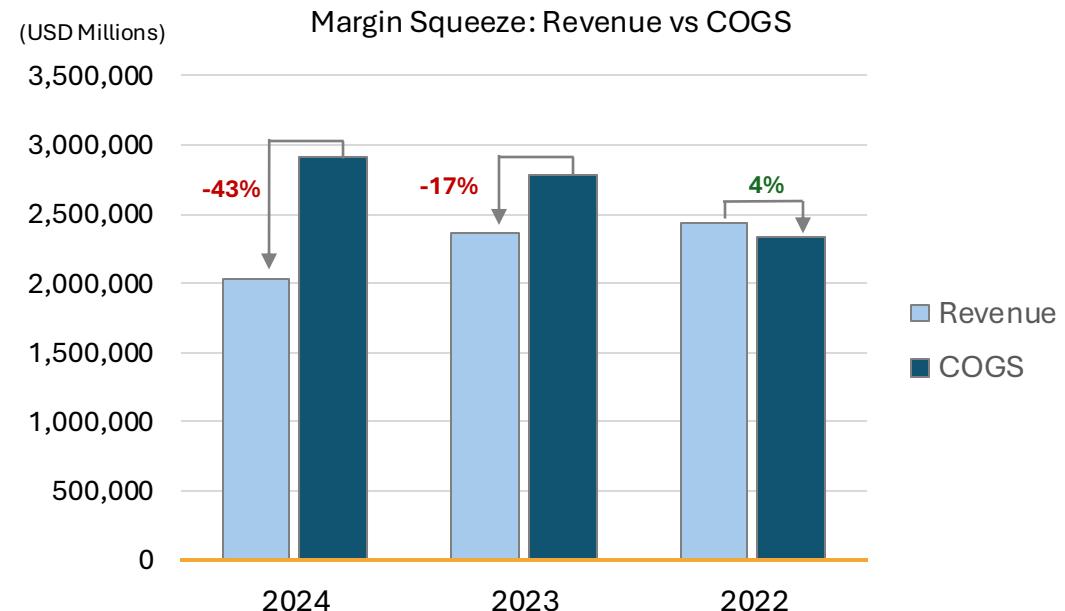
~76% of total costs are COGS, confirming that the turnaround relies on manufacturing efficiency, not overhead reduction.

##### SG&A Limitations

With SG&A at only ~23%, the company cannot "cut its way to profitability" through administrative reductions alone.

##### Strategic Lever

Primary margin recovery lies in supply chain optimization, specifically targeting **BOM** and **Battery costs** to lower unit costs.



##### Negative Unit Economics

Variable manufacturing costs (**COGS**) now exceed unit revenue, resulting in a structural gross loss on every vehicle produced.

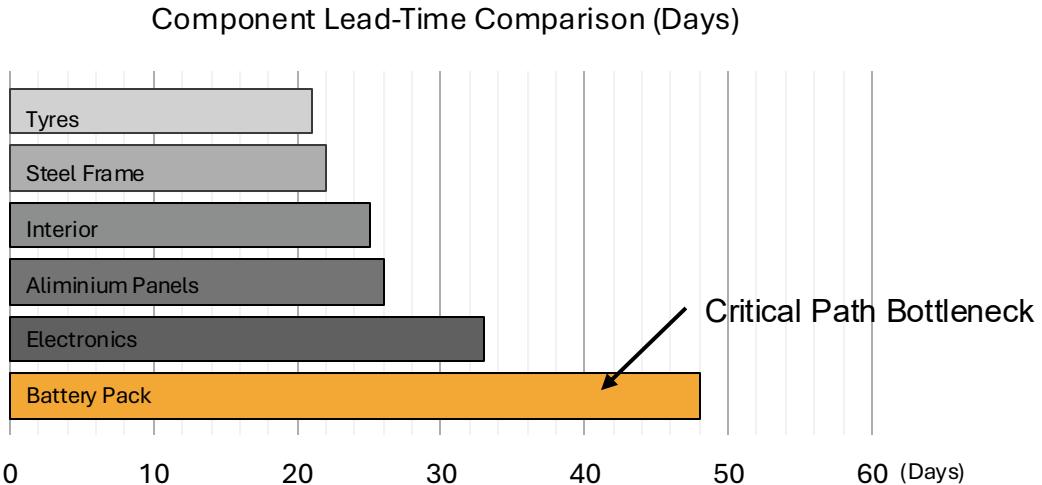
##### The squeeze Effect

While Revenue declined by **14%** in 2024, the COGS remains elevated due to supply chain inefficiencies, leading to the severe **-43%** gross margin.

##### The Scalability Trap

Under current economic conditions, volume scaling destroys shareholder value; positive gross margins must be established before returning to a growth mandate.

# Supply chain inefficiencies in Battery Packs drive excess cost and working capital, blocking margin recovery



Component	Supplier Risk	Defect Rate
Battery Pack	High	High (>5%)
Electronics	High	Medium (>2-5%)
Aliminium Panels	Medium	Low (>1%)
Interior	Medium	Medium (>2-5%)
Steel Frame	Medium	Low (>1%)
Tyres	Lower	Low (>1%)

## Strategic Supply Chain Implications

### The Working Capital Trap

The **48-day lead time** for Battery Packs is the critical bottleneck. It forces Polestar to fund the most expensive component weeks before revenue realization, severely draining liquidity.

### Scalability Risk

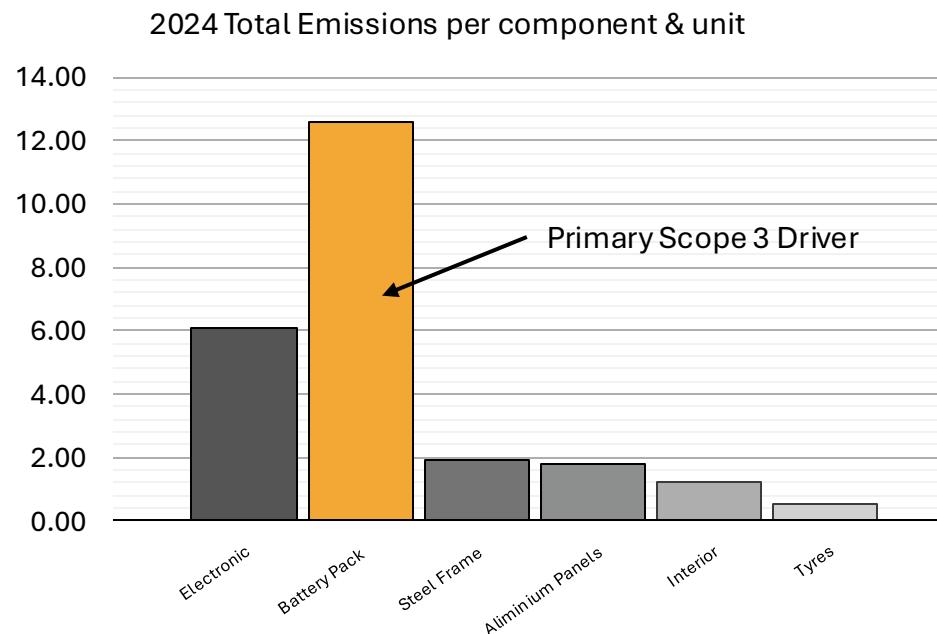
With both Battery Packs and Electronics classified as "**High Supplier Risk**," any attempt to aggressively scale volume increases the probability of costly production stoppages.

### Hidden Cost Drivers

A **>5% defect rate** in Battery Packs drives substantial rework and warranty provisions, directly diluting the Gross Margin identified in the previous financial analysis.



Achieving sustainability targets drives a ~5% structural cost increase, necessitating a shift to Premium Pricing to protect margins.



#### The Green Premium Reality

Target: Reduce footprint to <18 tCO<sub>2</sub>e. (Industry 2030 Trajectory)

Cost Impact: **+5%** in COGS.

#### The Compliance Gap

Current emissions per vehicle exceed the 2030 trajectory. Since Scope 3 (supply chain) drives the majority of the footprint, internal operational cuts alone are insufficient to meet regulatory targets.

#### The Battery Burden

The **Battery Pack** is the single largest emitter (**12.6 tCO<sub>2</sub>e/unit**). Great decarbonization requires a structural shift to suppliers utilizing renewable energy grids, which carries a higher procurement cost.

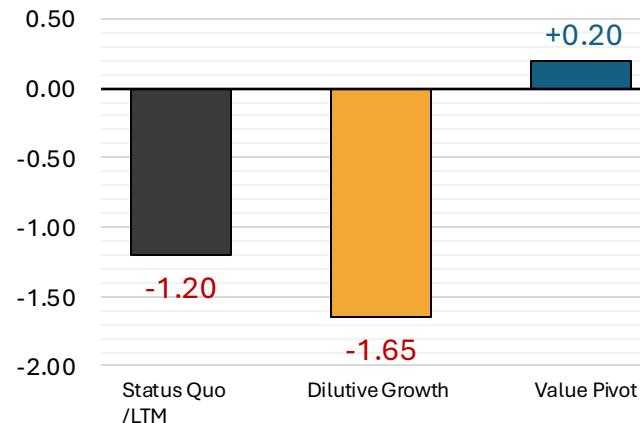
#### The Profitability Trade-off

Sustainability is not cost-neutral. Internal modelling confirms that the "Green Premium" on materials will increase COGS by ~5%, necessitating a **Premium Pricing Strategy** to protect the Gross Margin.

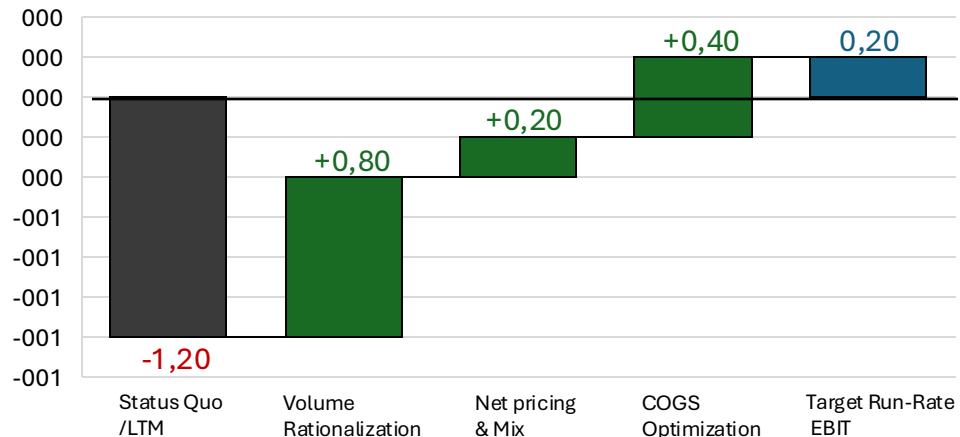


# A strategic pivot to 'Value-over-Volume' restores positive unit economics and bridges the path to solvency

## The Strategic Dilemma



## Path to Target Profitability (EBIT Bridge Analysis)



### Growth creates negative leverage

With current negative unit economics, a 20% volume increase does not dilute fixed costs, it accelerates variable losses.

Scaling a broken business model linearly deepens the deficit from **-1.2** to **-1.44** bn.

### Diseconomies of forced scale

Chasing volume in a saturated market triggers operational friction. The gap from -1.44 to **-1.65** bn represents the 'Cost of Force' including higher CAC, inventory clearing discounts, and expedited logistics required to push excess supply.

### The paradox of 'Shrink to Grow'

Profitability cannot be achieved through volume alone. By rationalizing the channel mix (exiting negative-margin fleet deals) and restoring pricing power, we capture **+0.2 bn** in EBIT despite lower total volumes.

**Note:** Scenario modelling assumes a constant fixed cost base. 'Dilutive Growth' assumes +20% unit sales at current negative margins.

'Value Pivot' assumes +10% ASP increase and 15% COGS reduction driven by supply chain stabilization and lower defect rates.



Phased restructuring targets cash stabilization in H1 2025, enabling margin expansion and \$0.2 Bn EBIT by 2026

	Phase 1 <b>Stabilization</b> (Q1-Q2 '25)	Phase 2 <b>Optimization</b> (Q3-Q4 '25)	Phase 3 <b>Profitability Growth</b> (2026+)
<b>Commercial -</b>	<b>Pricing:</b> Implement <b>10% ASP</b> adjustment. <b>Channel Exit:</b> Stop negative-margin sales. <b>Incentives:</b> Freeze volume-based bonuses.	<b>Inventory:</b> Aggressively clear stock to unlock cash. <b>Mix:</b> Prioritizing high-margin trim levels.	<b>Expansion:</b> Limit growth to segments >15% Gross Margin. <b>Targets:</b> Re-introduce profitable volume targets.
<b>Operational -</b>	<b>Opex:</b> Freeze non-essential spending. <b>Production:</b> Align output strictly to demand.	<b>Logistics:</b> Shift > <b>80%</b> flow from Air to Sea freight. <b>Supply Chain:</b> Renegotiate battery lead times (< <b>40 days</b> ).	<b>Design-to-Cost:</b> Launch models with optimized BOM costs. <b>Efficiency:</b> Leverage platform sharing to lower R&D.
<b>Financial Impact -</b>	Arrest cash burn & stabilize liquidity	Lower COGS & drive margin improvement	Target: Run-Rate EBIT of <b>+\$0.2 Bn</b>



# Key risks & mitigation actions for the turnaround

	Key Implementation Risk	Mitigation Action
Commercial	<b>1. Price Elasticity and Erosion</b> The +10% ASP increase results in larger volume loss than modeled, jeopardizing cash flow targets.	<b>1. Flexible MIX Strategy</b> Apply the ASP increase selectively in Phase 1. Aggressively market and push <b>high-margin trims</b> to offset the calculated volume decline.
Operational	<b>2. Delayed Logistics Shift</b> The shift from Air to Sea freight for critical components encounters process delays, leading to production halts.	<b>2. Strong Financial Governance</b> Tie bonuses for Logistics and Supply Chain leads directly to achieved <b>COGS savings</b> realized from the freight shift.
Overall	<b>3. Lack of Organizational Adoption</b> Functions (Commercial vs. Operations) resist the new restrictive policies, leading to internal sub-optimization.	<b>3. Establish Turnaround Office (TO)</b> Create a small, cross-functional unit with the mandate to rapidly resolve conflicts between Commercial and Operations.
Overall	<b>4. Geopolitical Supply Shock</b> An unforeseen external event delays critical component deliveries, forcing the company back to expensive Air Freight usage.	<b>4. Diversified Sourcing</b> Identify alternative regional suppliers for critical components in Phase 2 and build <b>safety stock</b> for high-risk, high-cost articles.



# Engineering the Turnaround

Restoring unit economics & securing the foundation for future growth

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We Have Identified the Path to Solvency, Restoring Unit Economics to Deliver +\$0.2 Bn EBIT.

## Organisational Mandate

Which Executive Team member should lead the new **Turnaround Office (TO)** to ensure compliance and rapid conflict resolution?

## Acceleration

Given the competitive landscape, should we commit to accelerating the **Design-to-Cost** initiatives in Phase 3 by immediately increasing R&D funding?



We welcome your questions