

# New England Revolution: Roster Efficiency & Player Value Report

## 1. EXECUTIVE SUMMARY

The New England Revolution's roster shows a very high percentage of valuable players on paper, but a concerning net-positive average impact indicates the team is marginally better without its players – a significant red flag. The single greatest strength is the 2025 TAM and U22 group, where multiple players show strong negative percent change values (-2.5% to -3.5%). The most urgent roster need is the Designated Player group, where 10 of 13 DP seasons show positive (harmful) percent change, including a catastrophic +52.6% in 2025, representing a systemic failure at the most important roster slots.

## 2. PLAYER ABSENCE IMPACT METRIC

The *Player Absence Impact* metric, derived from the Lasso regression model, quantifies an individual player's marginal contribution to team performance. The process simulates the team's Pythagorean Expectation (PE) score with the player on the roster and then recalculates it after removing that single player.

The resulting **percent change** (% change) is the key indicator:

- **Negative percent change** (e.g., -10.5%) means the team's PE score *decreases* without the player, identifying a **valuable** asset.
- **Positive percent change** means the team's PE score *increases* without the player, identifying a **replaceable** or potentially harmful contract.

This metric allows the front office to evaluate roster construction efficiency by isolating each player's true on-field impact.

## 3. ROSTER HEALTH OVERVIEW

- **Genuinely Impactful (Percent change < -5.0%): 14.0%** (16 of 114 player-seasons). These players significantly hurt the team if removed.
- **Not Impactful / Replaceable (Percent change > 5.0%): 12.3%** (14 of 114 player-seasons). The team performs better without these players.

**Team Summary (from team\_summary.csv):**

- Total player-seasons analyzed: 114
- Percentage of roster that is valuable (percent change < 0): **57.0%** (very high, but misleading given net-positive average)
- Average percent change across all players: **+0.38%** (net-positive – the team is on average better without its players, a concerning sign)

- Average impact magnitude: 3.8%

#### 4. DESIGNATED PLAYER ROI AUDIT

Player	Year	Salary	PE % change	Value Verdict
2021 F	2021	\$2,769,667	+10.87%	<b>Harmful</b>
2021 F	2021	\$2,120,000	+4.15%	<b>Marginal</b>
2021 F	2021	\$1,106,250	+0.48%	<b>Marginal</b>
2022 F	2022	\$3,545,833	+9.51%	<b>Harmful</b>
2022 F	2022	\$2,675,000	+4.65%	<b>Marginal</b>
2022 F	2022	\$1,747,500	-1.40%	<b>Core</b>
2023 F	2023	\$3,545,833	+17.08%	<b>Severely Harmful</b>
2023 F	2023	\$2,675,000	+6.24%	<b>Harmful</b>
2023 F	2023	\$1,847,500	+1.72%	<b>Marginal</b>
<b>2025 F</b>	<b>2025</b>	<b>\$4,702,083</b>	<b>+52.57%</b>	<b>Catastrophic</b>
<b>2025 GK</b>	<b>2025</b>	<b>\$1,942,886</b>	<b>-10.49%</b>	<b>Elite Core</b>
2025 F (Intl.)	2025	\$1,060,000	-3.45%	<b>Core</b>

- **Flagged (Percent change < 0 - Valuable):** 3 of 12 Designated Player seasons show negative percent change. The 2025 GK DP is elite; the 2025 F DP is elite in the wrong direction.
- **Flagged (Percent change > 0 - Harmful): 9 players** – a critical failure. The 2025 F DP (+52.57%) is the most harmful DP among all teams analyzed. The Revolution consistently fail to extract value from forward DP slots.

#### 5. ALLOCATION MONEY EFFICIENCY (TAM / U22-INITIATIVE)

- **TAM Contributors (Negative Percent change):** TAM players are a clear strength. Valuable TAM contributors include a 2023 M TAM (-3.37%), 2023 D TAM (+7.82%, +7.86% - *positive*), 2025 F TAM (-2.86%, -3.39%), 2025 M TAM (-2.92%, -2.55%), 2025 D TAM (+6.62%, +6.88% - *positive*). Overall, TAM forwards and midfielders are effective; TAM defenders are harmful.
- **U22-Initiative Impact:** U22 slots are generally effective:
  - 2022 F U22: +0.61% (marginal)
  - 2023 F U22: -2.99% (valuable)
  - 2025 F U22 (Intl.): -2.66% (valuable)
  - 2025 F U22 (Intl.): -2.66% (valuable)
  - 2025 D U22 (Intl.): +5.00% (harmful)

### Top 3 TAM "Steals" (Most Negative Percent change):

1. **2025 F TAM** (\$1,300,000, -3.39%)
2. **2023 M TAM** (\$750,000, -3.37%)
3. **2025 F TAM** (\$1,372,333, -2.86%)

## 6. HOMEGROWN PLAYER EVALUATION

Player	Year	Salary	PE % change
2025 D Homegrown	2025	\$106,000	+2.72%
2025 F Homegrown	2025	\$95,560	+1.53%
2025 D Homegrown	2025	\$89,571	+2.70%
2023 M Homegrown	2023	\$91,367	-0.63%
2023 M Homegrown	2023	\$88,200	-0.63%
2023 M Homegrown	2023	\$69,360	-0.87%
2023 M Homegrown	2023	\$67,360	-0.89%
2022 M Homegrown	2022	\$84,000	+0.96%
2022 M Homegrown	2022	\$71,559	+0.77%
2022 M Homegrown	2022	\$65,500	+0.69%
2021 M Homegrown	2021	\$63,547	-0.43%

- **Ready for Roster Promotion (Negative Percent change + Low Salary):**
  - **2023 M Homegrown group (-0.6% to -0.9%):** Multiple midfielders providing marginal but consistent negative impact at very low salaries.
  - **2021 M Homegrown (\$63,547, -0.43%):** Solid depth contributor.

## 7. INTERNATIONAL SLOT OPTIMIZATION

Player	Year	Pos	Salary	PE % change	Justifies Slot?
2024 GK	2024	GK	\$470,000	+12.88%	No
2025 F TAM	2025	F	\$1,300,000	-3.39%	Yes
2025 F	2025	F	\$1,060,000	-3.45%	Yes
2025 M TAM	2025	M	\$945,311	-2.55%	Yes
2025 D TAM	2025	D	\$805,625	+6.62%	No
2025 F U22	2025	F	\$740,000	-2.66%	Yes
2025 F U22	2025	F	\$732,283	-2.66%	Yes
2025 D TAM	2025	D	\$616,250	+6.88%	No

Player	Year	Pos	Salary	PE % change	Justifies Slot?
2025 D U22	2025	D	\$575,000	+5.00%	No

- **Flagged Slot Misuse (Percent change > 5%):**
  - **2024 GK (\$470,000, +12.88%)** – severe misuse of supplemental international slot
  - **2025 D TAM (\$805,625, +6.62%)** – TAM slot misuse
  - **2025 D TAM (\$616,250, +6.88%)** – TAM slot misuse
  - **2025 D U22 (\$575,000, +5.00%)** – U22 slot misuse

## 8. POSITIONAL DEPTH AUDIT

Position	Senior Count	Supplemental Count	Critical Upgrade Need?	Strength Area?
<b>F (Forward)</b>	15	5	<b>Yes</b>	No (DP forwards are catastrophically harmful; TAM forwards are excellent – a stark contrast)
<b>M (Midfielder)</b>	14	6	No	<b>Yes</b> (TAM midfielders are valuable; homegrown midfielders provide consistent depth)
<b>D (Defender)</b>	17	6	<b>Yes</b>	No (TAM defenders are harmful; senior defenders are mixed)
<b>GK (Goalkeeper)</b>	5	3	No	<b>Yes</b> (2025 GK DP is elite; supplemental GKs are mixed)

- **Critical Need:** Forward position at the DP level and Defender position at the TAM level.
- **Strength:** Midfielder position is a clear organizational strength. Goalkeeper position has an elite DP contributor.

## 9. SALARY vs. VALUE MATRIX

Quadrant	Definition	Players (Top 5 or All)
<b>CORE ASSET</b>	% change < 0 & Salary > \$500K	2025 GK DP (\$1.94M, -10.49%), 2025 F TAM (\$1.30M, -3.39%), 2025 F (\$1.06M, -3.45%), 2025 M TAM (\$1.09M, -2.92%), 2025 M TAM (\$945K, -2.55%)
<b>HIDDEN GEM</b>	% change < 0 & Salary ≤ \$500K	2023 M TAM (\$750K - over \$500K), 2023 F U22 (\$639K - over \$500K), 2025 F U22 (\$740K - over \$500K). <i>Few sub-\$500K negative impact players</i>
<b>OVERPAID</b>	% change ≥ 0 & Salary > \$500K	<b>All in this quadrant: 2025 F DP (\$4.70M, +52.57%)</b> , 2023 F DP (\$3.55M, +17.08%), 2022 F DP (\$3.55M, +9.51%), 2021 F DP (\$2.77M, +10.87%), 2023 F DP (\$2.68M, +6.24%), 2024 GK (\$470K, +12.88%), 2025 D TAM (\$806K, +6.62%), 2025 D TAM (\$616K, +6.88%), 2025 D U22 (\$575K, +5.00%)
<b>REPLACEABLE</b>	% change ≥ 0 & Salary ≤ \$500K	Most senior defenders with marginal positive percent change, several midfielders, and a portion of the supplemental roster.

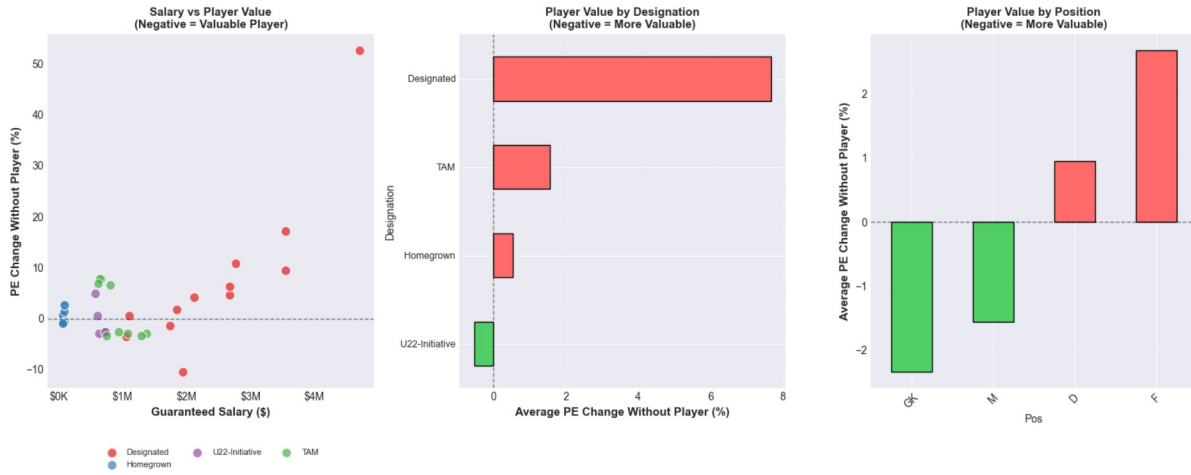
## 10. YEAR-OVER-YEAR TRENDS

- **Designated Player ROI: Catastrophic and worsening.** Across 2021-2025, only 3 of 12 DP seasons show negative percent change. Forward DPs are consistently harmful (+0.5% to +52.6%), with the 2025 F DP (+52.6%) being the worst among all teams analyzed. The 2025 GK DP (-10.5%) is a rare bright spot and an unconventional but successful DP allocation.
- **TAM Efficiency: Bimodal.** TAM forwards and midfielders are excellent (-2.5% to -3.4%). TAM defenders are harmful (+6.6% to +6.9%). This suggests positional strength in attacking TAM allocation and weakness in defensive TAM allocation.
- **U22 Efficiency: Generally good.** Most U22 players show negative percent change, with several exceeding -2.5% impact.
- **Homegrown Impact: Marginal.** Most homegrown players show near-zero percent change, providing neither strong value nor strong harm. This is an area for improvement but not a crisis.

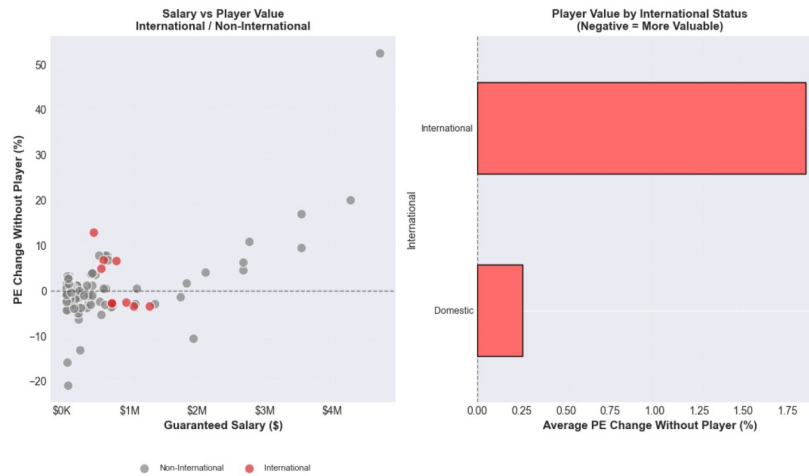
- **Goalkeeper Trend: Excellent when using DP slot.** The 2025 GK DP (-10.49%) is elite. Other GKs are mixed. This suggests the Revolution have identified a successful model for GK investment.

# 11. SUMMARY FIGURES

**Figure 1 - Designation Analysis**  
(Negative % = Team Gets Worse Without Player = Valuable Player)



**Figure 2 - International Analysis**  
(Negative % = Team Gets Worse Without Player = Valuable Player)



**Figure 3 - Senior/Supplemental Analysis**  
(Negative % = Team Gets Worse Without Player = Valuable Player)

