

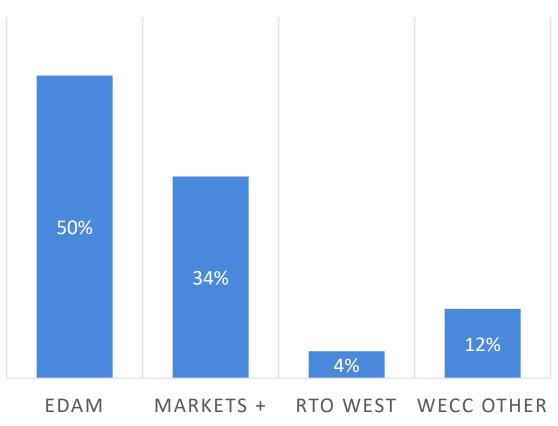
# Western Market Integration Update WPTF NYC Roundtable

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#### Impacts of Western Market Evolution

## MARKET LOAD SHARE (2023 ANNUAL DEMAND)



- Western utilities are aligning based on policy mandates, governance comfort, and system familiarity
- These decisions split the regional footprint and introduce seams, especially across critical trading corridors
- Market share based on initial leanings indicates a highly fragmented market is likely



### Emerging Themes Through 2030

- Market integration over the next 5 years will significantly impact commercial activities in the west
- Key themes that will structurally change trader risk and opportunities in energy and RA markets

Market Integration vs. Fragmentation

Seams Management and Interoperability

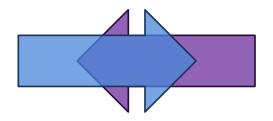
**Evolution of Trading & Hedging Strategies** 

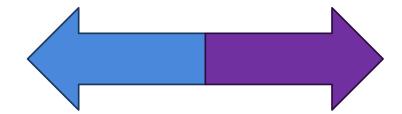
Resource Adequacy as a Regional Challenge



#### Market Integration vs. Fragmentation

Convergence or coexistence?





- If one platform clearly outperforms the other, a convergence could occur, otherwise, expect ongoing parallel markets with incremental efforts to improve their interoperability
- Market fragmentation is the biggest structural risk for traders
  - For traders, the question is whether this split is temporary or permanent
  - One market would simplify trading, while dual markets could spur ongoing arbitrage opportunities but also redundant compliance and complexity
  - Theme will shape everything from trading volumes to regulatory risk in the West



## Seams Management and Interoperability

- Each "seam" brings potential inefficiencies, price discrepancies, and rule conflicts
  - EDAM and Markets+ won't natively optimize across each other's footprint, any transaction that crosses from an EDAM BAA to a Markets+ BAA must fall back to bilateral scheduling (E-Tags) and wheeling through the seam
- These seams can limit liquidity and trading across regions
  - Expect basis price differentials to emerge at EDAM vs. Markets+ interface points
  - Congestion and tagging requirements at the seam raise transaction costs, which may discourage some deals or spawn new hedging instruments to manage the gap
- Seams mitigation efforts may ease these frictions
  - Interface pricing agreements, protocol standardization
  - Still, in near term, expect to navigate different market rules, separate congestion management systems, dual settlement processes



## **Evolution of Trading & Hedging Strategies**

Liquidity boom and bust centralized DA markets will increase volumes, introduce price signals and transparency

Financial products such as LMP-based swaps and futures may emerge

Congestion risks will increase and participants will need to rely on CRRs (in EDAM, if implemented) or FTRs (in Markets+)

Full hedging across seams may not be feasible, driving within-footprint trading or premiums to cross regulatory borders

Bilateral contracts may reference LMPs and inter-SC trades may grow in importance

Strategic transmission ownership increasingly a competitive advantage



## Resource Adequacy as a Regional Challenge

- No unified RA obligation across EDAM or Markets+
  - WRAP aims to pool RA regionally, outside full RTO governance
  - CPUC RA, WRAP, and potential SPP RA programs coexist
  - RA contracts must prove delivery across footprints—using tags, pseudo-ties
- Over time, regional coordination may improve
  - If WRAP and similar efforts succeed, we could see a more unified Western RA market
  - Until frameworks harmonize, traders dealing in RA must navigate disparate crediting rules and craft contracts carefully
- The region's ability to maintain reliability at least cost will hinge on ironing out these RA "seams" without a single authority



### What to Watch Going Forward

#### ✓ Market Footprint Changes

 Who else joins EDAM or Markets+? Any momentum toward combining? Any major addition or defection could shift liquidity

#### ✓ Performance Metrics

- Are markets delivering lower costs and more reliability? Are trading volumes hitting the projected increases? Are prices between regions converging or do large basis spreads persist at seams, indicating friction? How are congestion costs and FTR/CRR auction outcomes
- For RA, does the West get through peak periods without capacity shortfalls? Also watch RA prices If there's a tightening in one area, are bilateral RA contract prices spiking across the region?

#### ✓ Regulatory/Policy Shifts

- Any hint of a broader Western RTO or federal intervention to push consolidation would be a gamechanger. California might revisit joining an RTO fully or FERC could nudge toward greater intermarket coordination if they see inefficiencies
- On the RA front, we might see WRAP evolve or even mandatory RA standards if things get shaky

#### Bottom line: Stay Agile and Informed

