

WEEK 3 DAY 3



RISK MANAGEMENT & TRADING STRATEGIES

1. CROSS-MARKET ARBITRAGE STRATEGIES



A) Linked Market Arbitrage

Example (2024): Buy California CCAs @ \$36 → Sell Quebec units @ \$38 CAD (\$28 USD) → Capture \$8 gap

Requirements:

Dual exchange memberships Real-time FX hedging (CAD/USD)

Execution Window: Typically 2-4 hours before algis close gaps

B) Vintage Arbitrage

Profit Mechanism: Buy old credits (2021 REDD+ @ \$4.20) → Sell as new (2024 @ \$6.80)

Registry Hack: Use Verra's bulk retirement to bypass vintage restrictions

C) Physical vs Financial Arbitrage

Typical Spread: \$0.50-\$2.00 discount for physical credits

Trade Lifecycle:

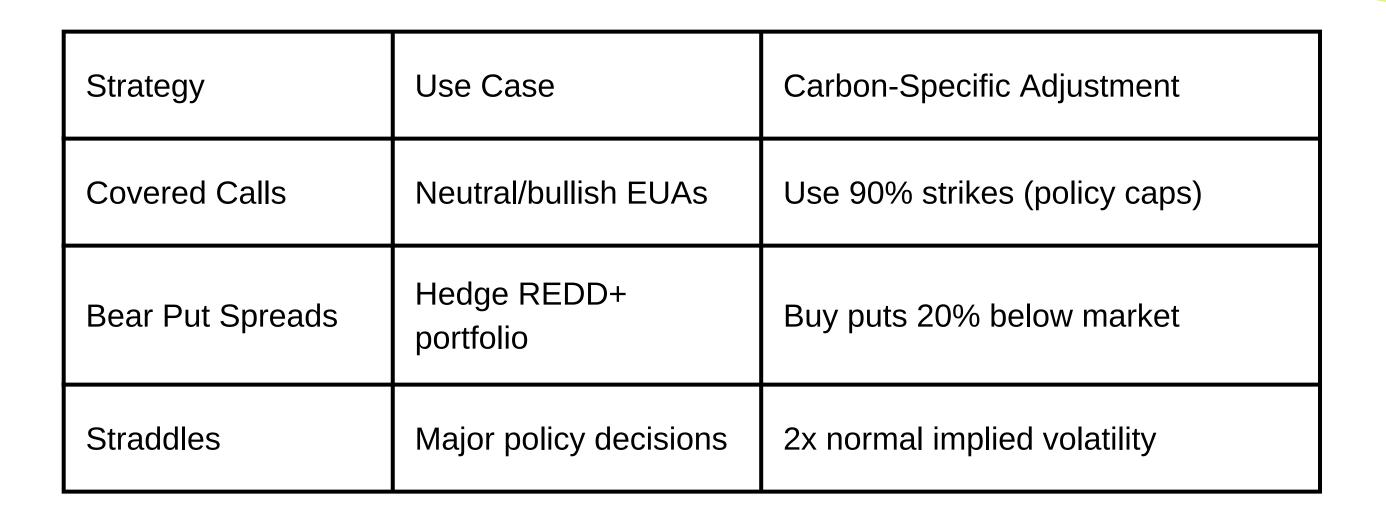
Buy 100k physical REDD+ @ \$4.25

Sell futures @ \$5.00

Deliver credits to close position

2. OPTIONS TRADING TACTICS

A) Strategy Matrix





Skew: Puts trade at 10-15% higher IV than calls (crash fear premium)

Event Trading: EU policy announcements cause 40-60% IV spikes

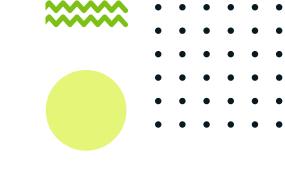








3. RISK MANAGEMENT FRAMEWORKS



A) Credit Risk Scoring Model

Factor	Weight	Scoring Guide
Developer liquidity	30%	<6mo cash runway = 2/10
Host country risk	25%	BMI Index <50 = high risk
Methodology safety	20%	New methods = +3 risk
Buffer pool %	15%	<10% = immediate reject



B) Liquidity Management Rules

Position Sizing: ≤5% of 30d avg volume (e.g., 100k tons if market trades 2M/mo)

Exit Protocols:

OTC block trade lines (pre-negotiated)
Futures hedge (minimum 50% coverage)

C) Stress Test Scenarios

Tail Risk Example: "EU invalidates all pre-2023 forestry credits"

Immediate action:

Short EUA futures

Exercise puts on affected projects

4. MARKET CORRELATION STRATEGIES

Key 2024 Relationships







Pair	Correlation	Trading Threshold
EUA vs Brent Crude	+0.72	Trade when >0.8
REDD+ vs S&P 500	-0.30	Hedge equity risk
DAC vs Tech Stocks	+0.15	Not significant

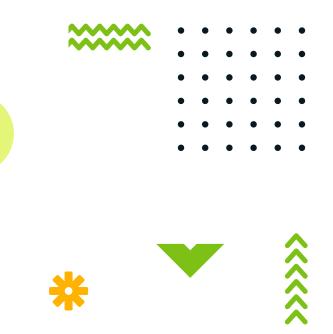
5. FRAUD PREVENTION PROTOCOLS

A) Common Schemes

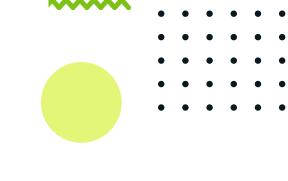
Туре	Red Flags	Defense Tactics
Wash Trading	Repeated same-size trades	Blockchain tracking
Fake Retirements	Registry ID mismatches	Third-party custody
Baseline Gaming	Odd historical references	Satellite verification



Cross-check registry IDs with project documents Confirm retirement receipts with registry API Audit 5% of credits via ground truthing



6. TRADING SIMULATION EXERCISE



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\$10M Virtual Fund Rules: Allowed Instruments:

Physical credits (max 40% allocation)
Futures/options (must cover 30% of exposure)

Scoring:

Metric	Weight
Sharpe ratio	40%
Policy resilience	30%
Fraud avoidance	30%

Debrief Focus:

Why did certain arbitrage fails? (e.g., settlement delays)
How correlation assumptions held up

Key Tools & Data Sources Execution Platforms:

Xpansiv CBL (voluntary)
ICE Endex (compliance)

Analytics:

Bloomberg Carbon Beta models CarbonChain for physical tracking

Risk Systems:

RiskMetrics Carbon Module Internal VaR calculators



THANK YOU