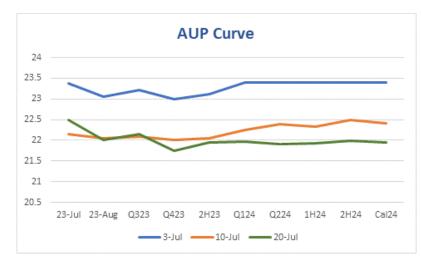
FIS

Aluminum Premium Report

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07/20/23



| AUP Commentary: |
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Today on Midwest Premium there were four trades on the CME block. Cal24 traded twice at 21.75 in 15x total, and Cal25 traded 22.00 in 10x. There was also Aug-Dec23 at 21.75 in 5x. We did have interest in Aug23 v Jul24 spread at 0.5c/0.25b in 40x. Expect more activity as the week closes.

The ongoing energy crisis and economic downturn is expected to slow global power demand growth in 2023, but a probable rebound in 2024 means more renewable capacity needs to be developed, according to the International Energy Agency. The growth rate is set to slow to less than 2%, down from 2.3% in 2022. In part due to EU energy-intensive industries, such as aluminum, steel etc. recording a 6% decline in power demand. However, global power demand growth is expected to rise to 3.3% in 2024.

| FIS AUP Curve 7/20 | | | | | |
|--------------------|-------|-------|----------|--|--|
| Period | Bid | Offer | Midpoint | | |
| 23-Jul | 22.25 | 22.75 | 22.50 | | |
| 23-Aug | 21.50 | 22.00 | 21.75 | | |
| Q323 | 21.50 | 22.00 | 21.75 | | |
| Q423 | 21.50 | 22.00 | 21.75 | | |
| 2H23 | 21.50 | 22.00 | 21.75 | | |
| Q124 | 21.50 | 22.00 | 21.75 | | |
| Q224 | 21.50 | 22.00 | 21.75 | | |
| 1H24 | 21.50 | 22.00 | 21.75 | | |
| 2H24 | 21.50 | 22.00 | 21.75 | | |
| Cal24 | 21.50 | 22.00 | 21.75 | | |

Trade Activity:

Aug23-Dec23 AUP 21.75 in 20x Cal24 AUP 21.75 in 5x Cal24 AUP 21.75 in 10x Cal25 AUP 22.00 in 10x

Renewable energy is predicted to cover the expected growth this year and next, being able to cover 1/3 of total global power supply for the first time next year.

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| FIS AEP Curve 7/20 | | | | | |
|--------------------|-----|-------|----------|--|--|
| Period | Bid | Offer | Midpoint | | |
| 23-Jul | 215 | 240 | 228 | | |
| 23-Aug | 215 | 240 | 228 | | |
| Q323 | 185 | 215 | 200 | | |
| Q423 | 175 | 205 | 190 | | |
| 2H23 | 180 | 210 | 195 | | |
| Q124 | 175 | 195 | 185 | | |
| Q224 | 175 | 195 | 185 | | |
| 1H24 | 175 | 195 | 185 | | |
| 2H24 | 160 | 190 | 175 | | |
| Cal24 | 168 | 193 | 180 | | |

| FIS EDP Curve 7/20 | | | | | |
|--------------------|-----|-------|----------|--|--|
| Period | Bid | Offer | Midpoint | | |
| 23-Jul | 290 | 310 | 300 | | |
| 23-Aug | 274 | 304 | 289 | | |
| Q323 | 260 | 280 | 270 | | |
| Q423 | 260 | 275 | 268 | | |
| 2H23 | 260 | 278 | 269 | | |
| Q124 | 250 | 260 | 255 | | |
| Q224 | 250 | 260 | 255 | | |
| 1H24 | 250 | 260 | 255 | | |
| 2H24 | 250 | 260 | 255 | | |
| Cal24 | 250 | 260 | 255 | | |

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