



ALEC

Adaptive Lazy Evolving Compression

alec-codec.com

Grid Monitoring at 1/10th the Data Cost

Streaming compression for substations, smart meters, renewable assets, and pipeline sensors. ALEC achieves 91% reduction on energy telemetry — where gzip expands it.

THE CHALLENGE

- Remote substations with limited backhaul
- Continuous grid data = high transmission costs
- Critical fault alerts delayed by routine data

THE SOLUTION

- 91% reduction on power/voltage/current streams
- P1 critical faults always transmitted first
- Evolving context adapts to grid patterns

KEY RESULTS

91%

Data Reduction

5×

Battery Extension

<1ms

Encode Latency

P1–P5

Priority Routing

Ready to optimize your grid monitoring?

hello@alec-codec.com
alec-codec.com