

The New Standard: LTO/NIO Chemistry.

Addressing the three biggest barriers to mass domestic adoption.

- **Absolute safety:** Traditional graphite anodes are the primary fuel for ‘thermal runaway.’ By eliminating them, we remove the fire risk entirely. Our chemistry is inherently stable, even if the unit is physically damaged.
- **Total insurability:** Because of this safety profile, Kight PowerHub has achieved full insurance coverage on existing underwriting terms – a critical requirement for large-scale deployment in social housing.
- **Generational longevity:** While the industry standard is 12 years, our LTO-based cells are engineered for a 25-year lifespan (10,000+ cycles) with virtually zero degradation, matching the lifecycle of the building itself.

A battery is only as good as the brain behind it. **Every PowerHub is powered by EnergiFlow**, our proprietary AI management layer. The AI learns usage patterns and tracks the grid, automatically charging when electricity is cleanest and cheapest.

The Kight conclusion

We are breaking away from traditional chemistries to introduce a unique, patentable LTO/NIO (Lithium Titanate Oxide / Niobium Oxide) battery. By completely removing cobalt and graphite, we have addressed the three biggest barriers to mass domestic adoption.