Keeping the World Connected and Online: UPS and Telecoms Applications

Lead batteries remain the dominant technology for UPS and Telecoms, with continued growth predicted to 2030.

KPIs for lead batteries in telecoms applications

- **Indicator**: Calendar Life on float
  - **Current**: 15 y at 20°C
  - **2028**: 7-10 y at 40°C

- **Indicator**: Cycle life (Testing should follow IEC 60896-22)
  - **Current**: 300 at 80% DoD
  - **2028**: 500 at 80% DoD

- **Cost**: $175/kWh

- **Maintain Safety and Recyclability, Maintain Shelf life**

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Achieving the KPIs will ensure lead batteries:
- Deliver the technical requirements needed by end-users
- Secure future market opportunities
- Continue being the dominant technology for UPS and Telecoms applications

UPS and Telecoms sectors:
- More than 5.5 GWh of growth is forecast in each sector between 2015 and 2030
- Significant opportunities exist for lead batteries if they continue to improve performance

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