The Cost of Helium-3:

# Earth Sources vs. the Moon

Estimated cost per kg compared with relative scalability and accessibility

Pulsar may be the only source of $^{3}$He with a viable path toward scalable, accessible commercial supply on Earth.

**How to Read**

Cost per kilogram to extract

Upper estimate

Lower estimate




Earth-based $^{3}$He is currently far easier and cheaper to access than lunar regolith, which faces costly mining and return logistics challenges.

Sources: Pulsar Helium; CRS R41419 (Shea & Morgan, 2010); Niechciał et al., Energies (2020); Thunder Said Energy; NASA OIG; CLPS contract data; USGS Keszthelyi et al. (2023); Smith-Vaniz et al. (2026); Interlune. Values reflect order-of-magnitude estimates from market pricing (tritium), thermodynamic separation floors (Pulsar), and CLPS-based transport floors (lunar), using simplified assumptions for grade, throughput, and infrastructure. *Energy floor (efficiency-dependent; excludes capex/opex). **Trasport floor (extraction + return unpriced)

***Lunar $^{3}$He may become more competitive over time, but for now Earth-based sources remain far easier and cheaper to access***

Explore the $^{3}$He Hub

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