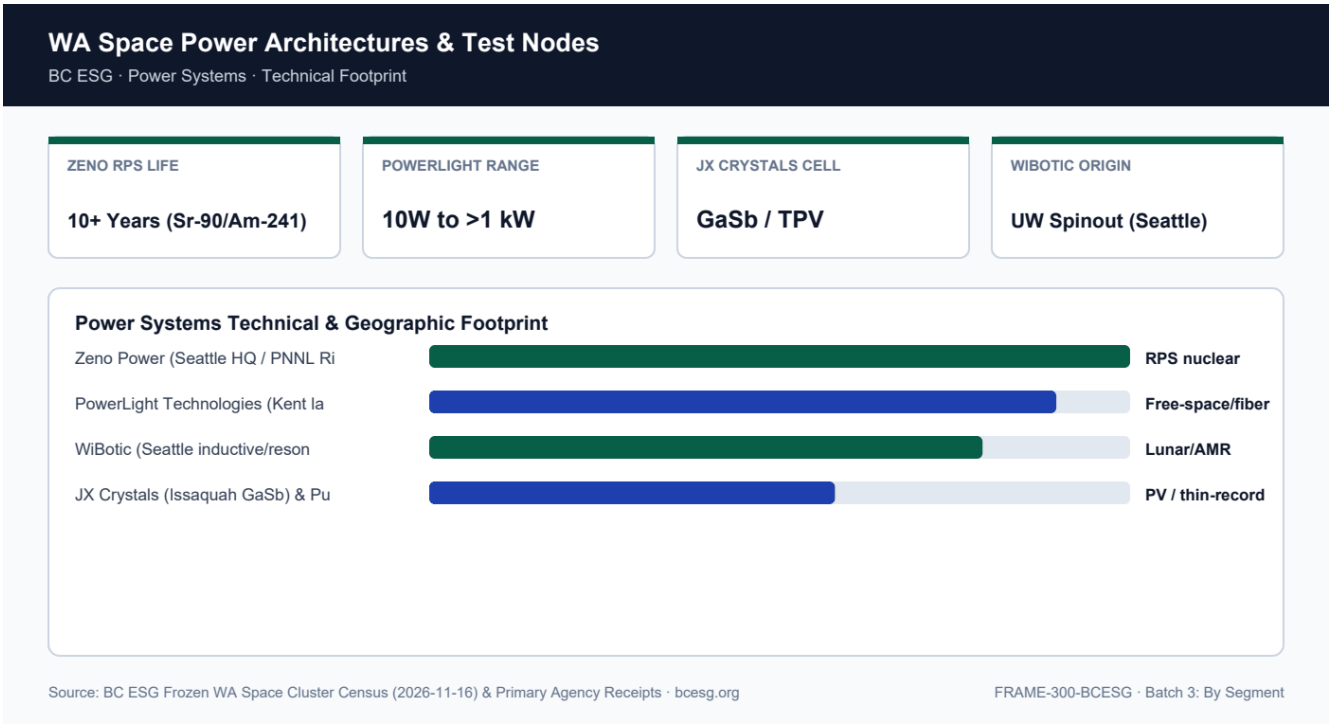
Radioisotope, Laser Power-Beaming & Wireless Charging in Washington

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Verification & Scope Baseline: Zeno Power demonstrated Sr-90 at PNNL Richland with CA hot-cell production; PowerLight/JX Crystals advance 10W->1kW+ beaming and GaSb TPV; Pulse Space is thin-record.



Modality	Operator(s)	WA Nodes	Out-of-State / Lab Partner
Radioisotope (Sr-90 / Am-241)	Zeno Power	Seattle HQ, Richland (PNNL demo)	Sunol, CA (Vallecitos hot-cell)
Optical Laser Power Beaming	PowerLight, JX Crystals	Kent, Issaquah	DoD / NASA lunar crater studies
Wireless Inductive / RF Charging	WiBotic	Seattle	Commercial AMR & lunar rover OEMs
Space Power-as-a-Service	Pulse Space	Seattle	Early-stage (thin public record)

Four Non-Conventional Power Stacks Anchored in Puget Sound

Zeno Power (Seattle HQ) develops lightweight Strontium-90 and Americium-241 Radioisotope Power Systems delivering 10+ years of electric and thermal power for lunar and seabed missions. Zeno demonstrated its first Sr-90 heat source prototype at **Pacific Northwest National Laboratory (PNNL)** in Richland, WA, while siting hot-cell production at Vallecitos Nuclear Center in Sunol, CA.

For optical and wireless power delivery, PowerLight Technologies (Kent, formerly LaserMotive) transmits 10W to >1 kW via free-space laser or power-over-fiber; JX Crystals (Issaquah) builds Gallium Antimonide (GaSb) thermophotovoltaic receivers; and WiBotic (Seattle) builds autonomous wireless charging for rovers and robots. Pulse Space (Seattle)

carries a thin public record and is treated concisely in Grouped #1562.

Verified Primary Sources & Internal Bridges

- Zeno Power: https://www.zenopower.com/
- PowerLight Technologies: https://powerlighttech.com/
- JX Crystals: https://jxcrystals.com/
- WiBotic: https://www.wibotic.com/