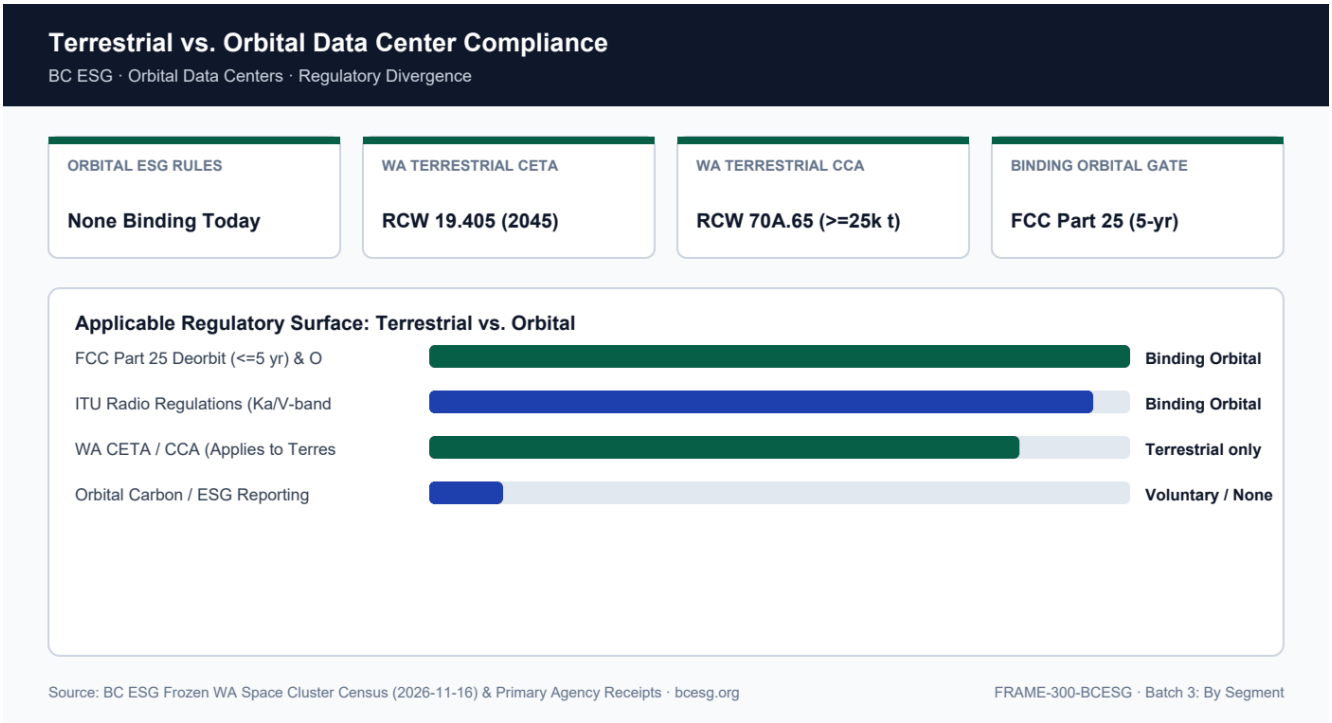
Orbital Compute Compliance: WA CETA/CCA Divergence & FCC/ITU Gates

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Verification & Scope Baseline: Zero binding orbital-compute ESG or carbon rules exist today; terrestrial WA data centers face CETA (RCW 19.405) and CCA (RCW 70A.65), while orbital nodes face FCC Part 25 & ITU.



Rule / Statute	Applies To	Binding Status	Key Threshold
FCC 47 CFR Part 25 (§ 25.283)	Orbital compute satellites	Binding (Federal)	5-year LEO post-mission deorbit
ITU Radio Regulations	High-bandwidth downlinks / ISLs	Binding (Intl/FCC)	API / CR / MIFR coordination
WA CETA (RCW 19.405) & CCA (RCW 70A.65)	Terrestrial WA data centers / utilities	Binding (Terrestrial)	2045 100% clean; 25k t CO2e cap
Orbital Compute Carbon / ESG	Space-based AI workloads	None / Voluntary	No binding federal or state standard

No Binding Orbital-Compute ESG Rules—Only FCC, ITU, and Terrestrial Manufacturing Permits

Terrestrial data centers in Washington face tightening clean-energy and carbon mandates under the **Clean Energy Transformation Act (CETA, RCW 19.405)**—requiring 100% zero-emission retail electricity by 2045—and the **Climate Commitment Act (CCA, RCW 70A.65)** for facilities emitting >= 25,000 metric tons CO2e/year.

Orbital compute platforms operate outside state utility and EPA carbon-cap jurisdiction: **no binding orbital-compute ESG or carbon-accounting standard exists today**. Any sustainability claims made for space-based compute are

voluntary/claimed unless verified against full launch-lifecycle emissions. Binding gates remain **FCC 47 CFR Part 25** (including the 5-year LEO deorbit rule), **ITU** spectrum coordination, **NOAA 15 CFR Part 960** (if imaging sensors are carried), and local WA industrial permits for Kent/Woodinville assembly.

Verified Primary Sources & Internal Bridges

- RCW 19.405 (WA CETA): https://app.leg.wa.gov/rcw/default.aspx?cite=19.405
- RCW 70A.65 (WA CCA): https://app.leg.wa.gov/rcw/default.aspx?cite=70A.65
- WA Ecology CCA Oversight: https://ecology.wa.gov/air-climate/climate-commitment-act
- eCFR 47 CFR Part 25: https://www.ecfr.gov/current/title-47/chapter-I/subchapter-B/part-25