



ORBITAL COMPUTE & ENERGY INFRASTRUCTURE

EXTENDING DIGITAL INFRASTRUCTURE BEYOND EARTH

As global demand for artificial intelligence, high-performance computing, secure communications, and Earth observation continues to accelerate, Clean Holding Company (CHC) is evaluating the next generation of infrastructure needed to support the world's expanding digital economy.

Building on our expertise in modular energy systems, distributed power generation, and hyperscale infrastructure development, CHC is developing a long-term strategy to extend critical energy and computing infrastructure into Low Earth Orbit (LEO).

Our vision is to create a distributed network of orbital compute and energy systems that complements terrestrial data centers and power infrastructure—providing resilient, scalable computing resources capable of supporting commercial, industrial, scientific, and sovereign applications well into the future.

WHY LOW EARTH ORBIT?

Low Earth Orbit presents a unique opportunity to support:

- Artificial intelligence inference
- High-performance computing
- Earth observation and geospatial analytics
- Climate and environmental monitoring
- Secure sovereign computing
- Scientific research
- Global communications
- Distributed digital infrastructure resilience



GLOBAL DEMAND ABOVE THE GLOBE

The rapid growth of artificial intelligence is fundamentally changing global infrastructure requirements.

Traditional terrestrial data centers will continue to provide the foundation of digital computing, but emerging applications increasingly require geographically distributed, resilient computing architectures capable of operating beyond conventional infrastructure constraints.

As launch costs decline and satellite technologies mature, orbital infrastructure is becoming an increasingly viable extension of terrestrial computing networks.

CHC believes future digital infrastructure will operate across both Earth and space, combining advanced energy systems with intelligent computing platforms to support global demand.

OUR VISION

CHC's long-term objective is to develop modular orbital infrastructure capable of integrating seamlessly with terrestrial energy and computing assets.

Rather than viewing orbital systems as replacements for traditional data centers, we believe they will become complementary infrastructure supporting specialized workloads, geographic redundancy, and resilient computing capacity.

Our long-term architecture includes:

- Modular orbital compute platforms
- Space-based energy generation and power management
- Distributed AI inference capabilities
- Autonomous infrastructure management
- Secure communications networks
- Integration with terrestrial hyperscale campuses
- Earth observation processing
- Future sovereign digital infrastructure services

This approach mirrors CHC's terrestrial development philosophy—deploying scalable infrastructure in modular phases while maintaining flexibility as technology evolves.

DEVELOPMENT ROADMAP

CHC expects orbital infrastructure development to occur over multiple phases as technology, commercial demand, and launch capabilities continue to mature.

Phase I (2026–2028) Research, Engineering & Technology Demonstration

The first phase focuses on foundational development activities, including:

- Mission architecture
- Systems engineering
- Regulatory coordination
- Hosted payload demonstrations
- Prototype compute technologies
- Initial energy system evaluation
- Strategic technology partnerships

Estimated investment:
\$75–150 million

Phase II (2028–2031) Initial Orbital Infrastructure Deployment

Following successful demonstrations, CHC anticipates deploying its first modular orbital computing platforms.

Development priorities include:

- Initial compute satellites
- Ground station integration
- Secure communications
- AI inference validation
- Earth observation processing

- Earth observation processing
- Early commercial demonstrations

Estimated investment:
\$350–700 million

Phase III (2031–2035) Distributed Orbital Compute Network

As commercial demand grows, CHC expects to expand toward a distributed orbital computing architecture.

Potential capabilities include:

- Multi-node compute constellations
- Distributed AI processing
- High-performance computing
- Global workload balancing
- Integrated terrestrial connectivity
- Government and sovereign applications

Estimated investment:
\$1.2–2.5 billion

Phase IV (2035–2040) Integrated Orbital Energy & Digital Infrastructure

The long-term objective is the development of scalable orbital infrastructure operating alongside terrestrial energy systems.

Potential future capabilities include:

- Large-scale orbital compute platforms
- Advanced space-based energy systems
- Autonomous operations
- Long-duration commercial infrastructure
- Intelligent workload distribution
- Expanded sovereign infrastructure services

Estimated investment:
\$3–7 billion

INTEGRATED INFRASTRUCTURE STRATEGY

CHC views orbital infrastructure as a natural extension of the Company's terrestrial energy platform.

Our terrestrial infrastructure strategy combines:

- Dispatchable natural gas generation
- Hybrid battery energy storage
- Utility interconnection infrastructure
- Behind-the-meter power systems
- Hyperscale data center energy campuses
- Distributed computing infrastructure
- Advanced communications
- Future orbital compute and energy systems

CAPITAL STRATEGY

Based on current market assumptions, CHC estimates the long-term development of an integrated orbital compute and energy platform could represent \$5–10 billion in cumulative infrastructure investment over approximately 15 years.

Future capital deployment would be expected to occur through a combination of:

- Infrastructure investment funds
- Project finance
- Strategic technology partnerships
- Government research programs
- Commercial customer commitments

Together, these capabilities are intended to provide customers with resilient infrastructure capable of supporting the rapidly expanding computational demands of artificial intelligence, advanced manufacturing, scientific research, and next-generation digital services.

- Institutional equity
- Joint development ventures

Investment decisions will continue to be aligned with technological progress, customer demand, regulatory approvals, and commercial readiness.

LOOKING AHEAD

Artificial intelligence is transforming not only software, but also the physical infrastructure required to power the global economy.

Just as utilities, fiber networks, and hyperscale data centers reshaped the digital landscape over the past three decades, CHC believes the coming decades will see the emergence of integrated terrestrial and orbital infrastructure designed to deliver resilient computing, advanced energy systems, and global digital connectivity.

We believe the future of infrastructure extends beyond the horizon—and CHC intends to help build it.

LONG-TERM COMMITMENT TO INNOVATION

CHC's exploration of orbital compute and energy systems reflects our broader mission to develop infrastructure that anticipates future demand rather than simply responding to it.

While these initiatives remain in the planning and evaluation stages, they represent our commitment to pursuing transformative technologies that strengthen energy resilience, expand digital capability, and support the next generation of global infrastructure.

As technical development, strategic partnerships, and commercial opportunities evolve, CHC expects to advance these initiatives through disciplined engineering, phased investment, and collaboration with leaders across the aerospace, energy, and technology sectors.

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