

DCN

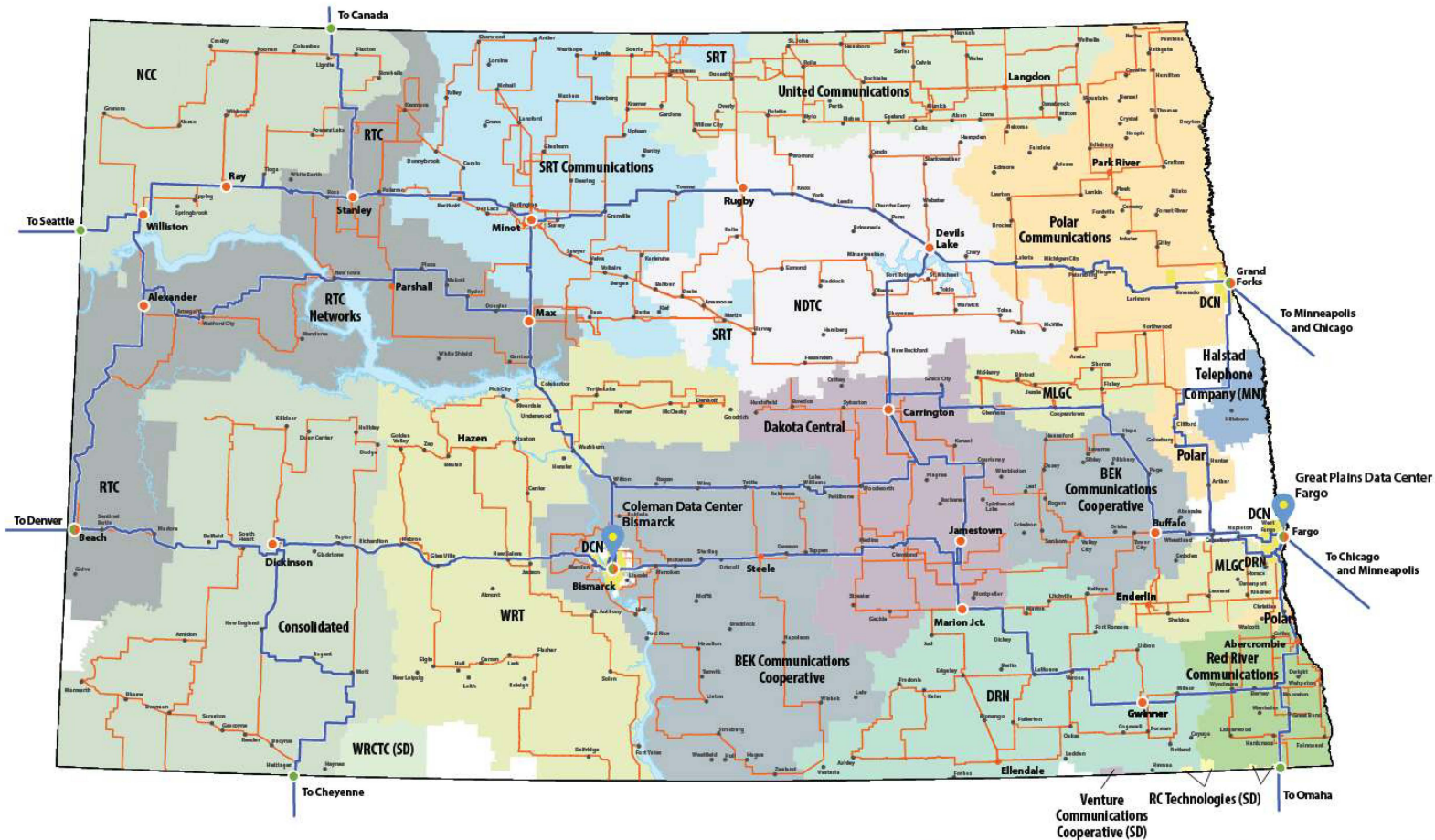
Dakota Carrier
NETWORK

North Dakota Fiber Optic Network

DCN Fiber Optic Backbone

DCN Owner Company
Fiber Optic Backbone

- Network Node
- Long Haul Interconnection Point



DCN Metro Fiber - Bismarck

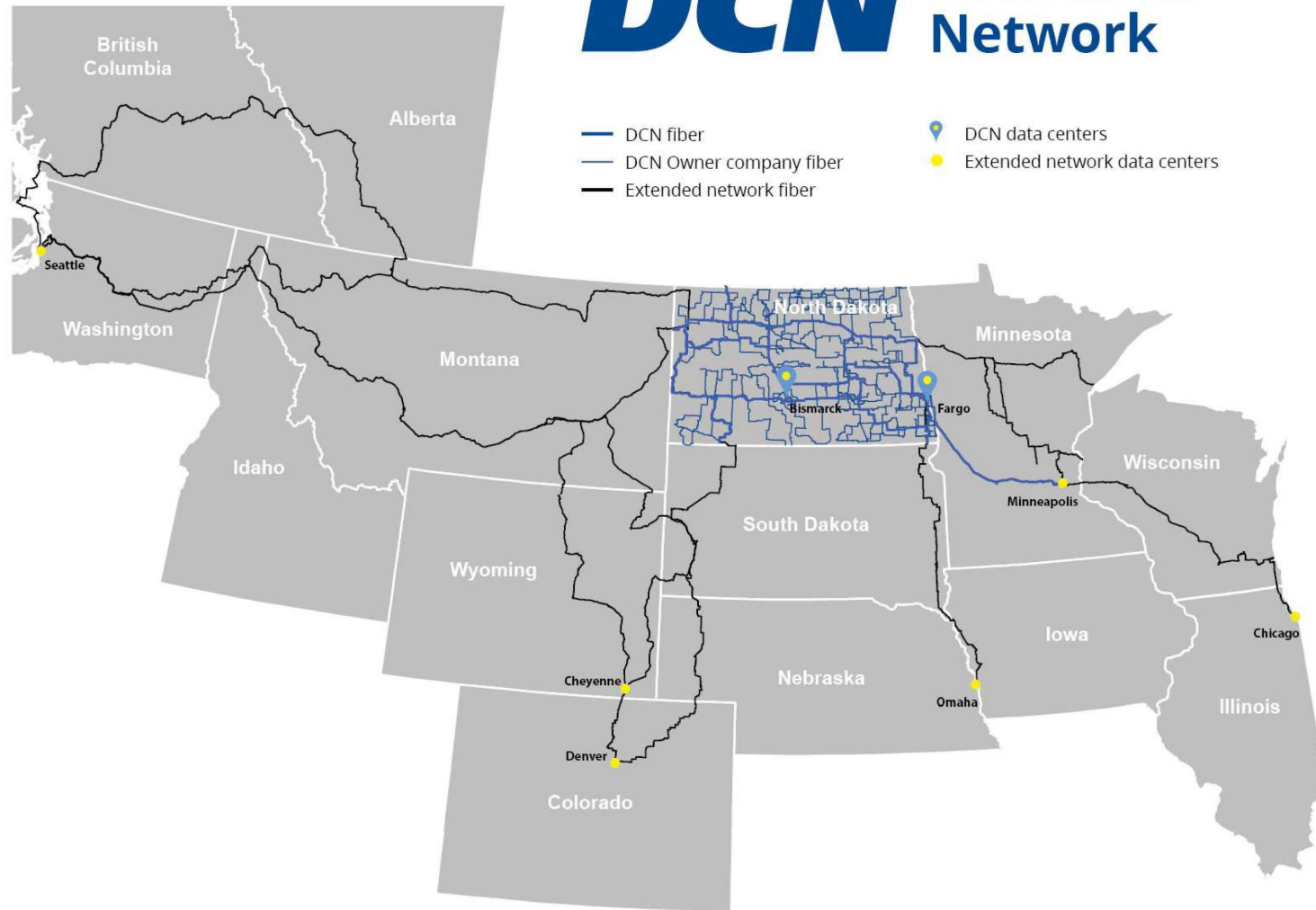


DCN Metro Fiber - Fargo



DCN Metro Fiber - Grand Forks

DCN Wholesale Network



The background is a solid blue color with a subtle, repeating pattern of hexagons. The hexagons are slightly offset and have a 3D effect, appearing to float above the surface.

DCN-STAGEnet 26 years of Public-Private Partnership



Fargo – headquarters
12,000 SF
2 x 750KW Generators
Redundant Power Entrances
Redundant Fiber Entrances
Dry Fire Suppression Protection

Bismarck
42,000 SF, EF4 Hardened
2 x 1 MW Generators
Redundant Power Entrances
Redundant Fiber Entrances
Dry Fire Suppression Protection



AI Data Center Example

Requirements

Land:

- Minimum 70 acres

Power:

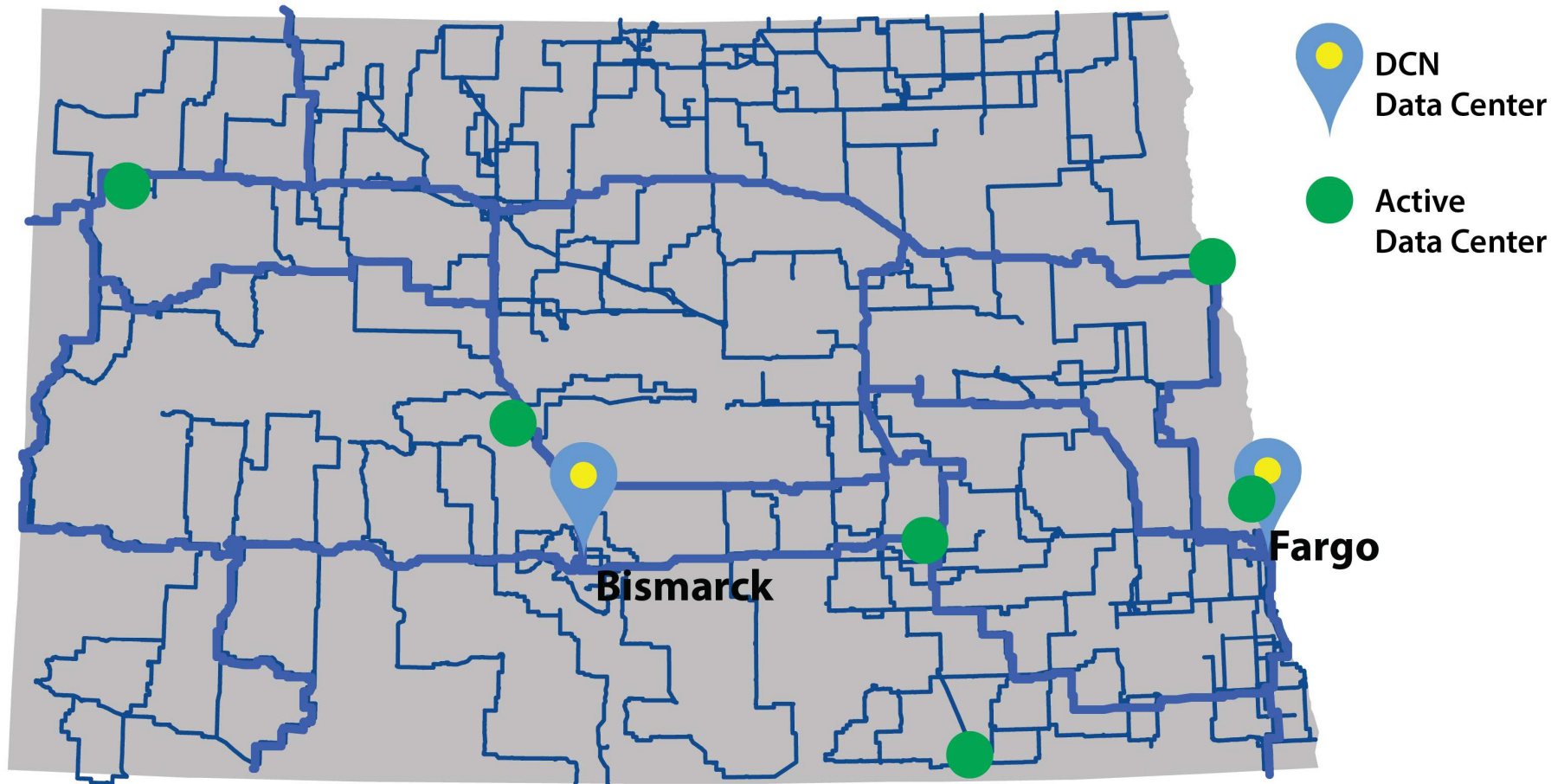
- Diverse substations with 200 MW minimum.
(Target price: 5¢ per kWh)
- GPUs 40kW to 70 kW/rack

Fiber requirements:

- up to 4 routes
- +400 Gbps to 100 TB of capacity or dark fiber



Data Center Projects in North Dakota



Current Network Capacity

Current Backbone Capacity: 19.2 TB scalable to 38.4 TB

One Hyperscale Provider requesting up to 400 TB of capacity

Lit vs Dark Fiber

Lit fiber, as the name suggests, is actively operational fiber infrastructure managed by a service provider. Businesses lease access to the network as a fully managed service, which includes maintenance, monitoring, and predefined bandwidth speeds.

Dark fiber refers to unused or “unlit” fiber-optic cables installed in the ground. This infrastructure was originally deployed in anticipation of future bandwidth demands, and as technology advances, these unused strands have become invaluable for businesses seeking greater control over their connectivity.

Thank You!!!