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Gem Energy Storage Center – Project Overview
Gem Energy Storage Center – Kern County, CA

Project Capacity: 500 MW
Storage Duration: 8 Hours (4,000 MWh)
POI: SCE Whirlwind Substation (230 kV)
Target Commercial Operation Date: Q1 2027
Gem A-CAES Project Vicinity Map – Antelope Valley
Local Benefits of Gem Energy Storage Center

• Provides enhanced integration and maximizes the utilization of intermittent renewable resources located in and around the Tehachapi Renewable Resource Area

• Total Installed Cost: $900 million to $1.0 billion

• Construction Jobs:
  • Average Construction Workforce: ~250 over 4+ years
  • Peak Construction Workforce: ~550
  • Total Construction Labor: ~2 million man-hours

• Operations & Maintenance Jobs: 25-40 Full-time equivalent positions

• Fiscal Benefits: Over $500 million in Regional Direct & Indirect Economic impacts over project 50+ year commercial lifespan

• Compressed Air Energy Storage projects are not part of any state-imposed program with special property tax treatment
Contact Information

Curt Hildebrand
Senior Vice President, Commercial Affairs
curt.hildebrand@hydrostor.ca
925-872-3791