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Hybridization of existing gas resources

With nearly 200 MW of hybrid gas-storage resources operating in California, hybridization of existing gas resources is now a proven means of adding capacity, and when done correctly, it provides a unique opportunity to meet several policy goals, including environmental considerations. The state should use this opportunity to incentivize hybridization not just for the added capacity, but also to accelerate meeting Californiaâ€™s environmental goals. Hybrids not only add capacity, but also provide the flexibility needed to meet operating reserves and net-load following needs using minimal gas. This increased flexibility is made possible because hybridizing existing gas-fired resources can expand current operating ranges, lower Pmin values, eliminate start-up times, and increase ramp rates, all of which lead to reduced greenhouse gas (â€œGHGâ€) emissions and criteria pollutants .
By hybridizing existing gas-fired resources in disadvantaged communities the GHG emissions reductions and criteria pollutant reductions will directly benefit those disadvantaged communities, which is a California mandate. Thus, hybridizing existing gas resources is a no regrets solution to reliability challenges that brings with it many environmental justice benefits.