

## SECTION 4.0

# Natural Gas Supply

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Natural gas will be supplied to the Redondo Beach Energy Project (RBEP) via the existing 20-inch-diameter, high-pressure pipeline that currently serves the Redondo Beach Generating Station; no new offsite natural gas supply pipelines will be necessary for the project. The existing natural gas pipeline is owned and operated by Southern California Gas Company (SoCalGas). The pipeline operates at a nominal 145 pounds per square inch, and enters the existing Redondo Beach Generating Station on the east side of the facility near the existing 230-kilovolt switchyard. The existing onsite natural gas facilities will be modified for RBEP.

The RBEP combustion turbine generators (CTG) will only combust natural gas. The natural gas requirement during operation at the site average ambient temperature<sup>1</sup> conditions is approximately 3,661 MMBtu/hr lower heating value basis, total for three CTGs.

SoCalGas also owns and operates the existing onsite natural gas metering and valve station. The existing SoCalGas metering station will remain in service during RBEP construction for continued operation of existing Redondo Beach Generating Station Units 5 and 8 until they are decommissioned, and will continue to be used for RBEP operation. No new metering station will be built for RBEP.

Natural gas will flow from onsite metering station to an onsite gas pressure-control station and gas scrubber/filtering equipment. Prior to being supplied to the CTGs, the natural gas will be compressed, scrubbed, and filtered consistent with the turbine vendor recommendations. A new high-pressure pipeline (500 psig) will be routed between the compressor station and each unit; the existing pipeline will be decommissioned and remain in place. The natural gas used in the heat recovery steam generator duct burners will not require gas compression, but will require filtering and scrubbing to be performed at the gas metering station. The natural gas for the RBEP building heating systems will flow through the metering station and gas pressure control station, and will not require compression, or filtering.

Section 2.7 describes the project's operating modes, fuel consumption, and energy production.

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<sup>1</sup> Site average ambient temperature is 63.3°F, dry bulb, and 58.5°F, wet bulb without evaporator coolers operating