

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY FOR ANGELES LINK PHASE 1
REASONABLENESS REVIEW (DATA REQUEST CalPA-SCG-01)**

Date Requested: November 14, 2025, Submitted: December 9, 2025

Supplement Submitted: January 7, 2026

QUESTION 11: Figure 20 of the Alternatives Study displays the cost-effectiveness of the Angeles Link Pipeline System, measured by the levelized cost of hydrogen delivery ("LCOH", \$/kilogram of hydrogen) compared to the six hydrogen delivery alternatives under Scenario 7, which utilized the 1.5 Mtpa hydrogen throughput.

- a. Did SoCalGas evaluate the cost-effectiveness of the hydrogen delivery alternatives at other throughput capacities (e.g., 1 Mtpa, 0.5 Mtpa, or lower)? If so, what were the results of those analyses?
- b. Under the scenario with 1.5 Mtpa of hydrogen throughput by 2045, what is the average cost effectiveness of the Angeles Link project and hydrogen delivery alternatives as production scales between 2030 and 2045?
- c. At what annual throughput of hydrogen does the Angeles Link pipeline become the most cost-effective when compared to the other hydrogen delivery alternatives, using the rest of the parameters from Scenario 7?
 - i. What is the delivery cost at that threshold?
 - ii. Below that threshold, which hydrogen delivery option(s) are more cost effective?
- d. What are the total anticipated costs for the hydrogen delivery alternatives compared to the Angeles Link project, as opposed to the hydrogen delivery costs in \$/kg?

RESPONSE 11:

SoCalGas objects to the request in that it seeks information that may be outside the scope of this proceeding. Subject to and without waiving the foregoing objection, SoCalGas responds as follows.

11a. Yes. Please refer to Response 8a.

11b. SoCalGas objects to this request under Rule 10.1 of the Commission's Rules of Practice and Procedure to the extent it seeks the production of information that is neither relevant to the subject matter involved in the pending proceeding nor is likely reasonably calculated to lead to the discovery of admissible evidence. Subject to and without waiving the foregoing objection, SoCalGas responds as follows.

Not Applicable. SoCalGas assessed a Levelized Cost of Delivered Hydrogen (LCOH) for 2045. SoCalGas did not perform an assessment of LCOH on a production scale timeline between 2030-2045.

11c. Pursuant to Ordering Paragraph 6(a) of the Decision (D.22-12-055), the Demand Study helped identify the hydrogen demand for Angeles Link.

Based on the demand identification, 0.5, 1.0 and 1.5 MPTA throughput volumes for the SoCalGas service territory were considered for the demand scenario analysis, and the Production and Design Studies identified eight scenarios for hydrogen production and delivery. The Cost Effectiveness Study used these scenarios to measure the cost effectiveness between Angeles Link and the alternatives.

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Table 5 in the Cost Effectiveness Study¹ displays the variability in throughput and transport distance across the 8 scenarios. The results of the cost effectiveness analysis for each scenario are summarized in Table 41,² and demonstrate that for the 0.5 – 1.5 MPTA throughput levels, Angeles Link is the most cost effective. The objective was to determine the cost effectiveness for hydrogen delivery based on the demand throughput levels and delivery methods. Determining the throughput level at which Angeles Link becomes the most cost-effective hydrogen delivery alternative was outside the scope of these studies.

11c(i). Please refer to Response 11c.

11c(ii). Please refer to Response 11c.

11d. Please refer to Section 7.3 and Table 42 in Section 7.4³ of the Cost Effectiveness Study Final Report detailing the Capital and O&M related assumptions for Angeles Link and the hydrogen delivery Alternatives.

¹ Angeles Link Cost Effectiveness Study, Table 5 at 42 available at:
<https://www.socalgas.com/sites/default/files/alproject/Angeles-Link-Phase-1-Final-High-Level-Economic-Analysis-&-Cost-Effectiveness.pdf>.

² Angeles Link Cost Effectiveness Study, Table 41 at 122 available at:
<https://www.socalgas.com/sites/default/files/alproject/Angeles-Link-Phase-1-Final-High-Level-Economic-Analysis-&-Cost-Effectiveness.pdf>.

³ Angeles Link Cost Effectiveness Study, Section 7.3 and 7.4 at 99, 123 available at:
<https://www.socalgas.com/sites/default/files/alproject/Angeles-Link-Phase-1-Final-High-Level-Economic-Analysis-&-Cost-Effectiveness.pdf>.

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QUESTION 17: SoCalGas cites that “North America is expected to expand its electrolyzer production capacity from 550 MW (2022) to an estimated 2 GW by 2030” (Production Study at 24).

- a. What total electrolysis capacity is needed for this project?
- b. When would construction for these electrolyzer facilities need to begin to align with the Angeles Link timelines?
- c. Did SoCalGas consider potential competing demands for hydrogen electrolysis capacity buildout, such as other national Hydrogen Hubs initiatives, when evaluating if the production demand for the Angeles Link project could be met within project timelines?

RESPONSE 17:

SoCalGas objects to this request under Rule 10.1 of the Commission’s Rules of Practice and Procedure to the extent it seeks the production of information that is neither relevant to the subject matter involved in the pending proceeding nor is likely reasonably calculated to lead to the discovery of admissible evidence. Subject to and without waiving the foregoing objection, SoCalGas responds as follows.

17a. As stated in Table 11.1 of the Production Study, approximately 27 GW of electrolyzer capacity is needed to support 1.5 MMTPY of clean hydrogen production.⁴

17b. As stated in Figure 5 of the Cost Effectiveness Study, hydrogen production is assumed to begin in 2030.⁵ As discussed in Section 9.2.9 of the Production Study, a 200MW hydrogen production facility from start of design to operation is expected to take three (3) years in a supply chain balanced market.⁶

17c. SoCalGas conducted analysis within the state’s geographical boundaries and did not consider the potential competing demands for hydrogen electrolysis capacity buildout, such as other national Hydrogen Hubs initiatives.

⁴ Angeles Link Phase 1 Production Study, Table 11.1 at 64 available at <https://www.socalgas.com/sites/default/files/alproject/Angeles-Link-Phase-1-Final-Production-Planning-&-Assessment.pdf>.

⁵ Angeles Link Phase 1 Cost Effectiveness Study, Figure 5 at 36, available at: <https://www.socalgas.com/sites/default/files/alproject/Angeles-Link-Phase-1-Final-High-Level-Economic-Analysis-&-Cost-Effectiveness.pdf>.

⁶ Angeles Link Phase 1 Production Study, at 57 available at <https://www.socalgas.com/sites/default/files/alproject/Angeles-Link-Phase-1-Final-Production-Planning-&-Assessment.pdf>.