

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY FOR
ANGELES LINK PHASE 2 A.24-12-011**

DATA REQUEST CalPA-SCG-DR01

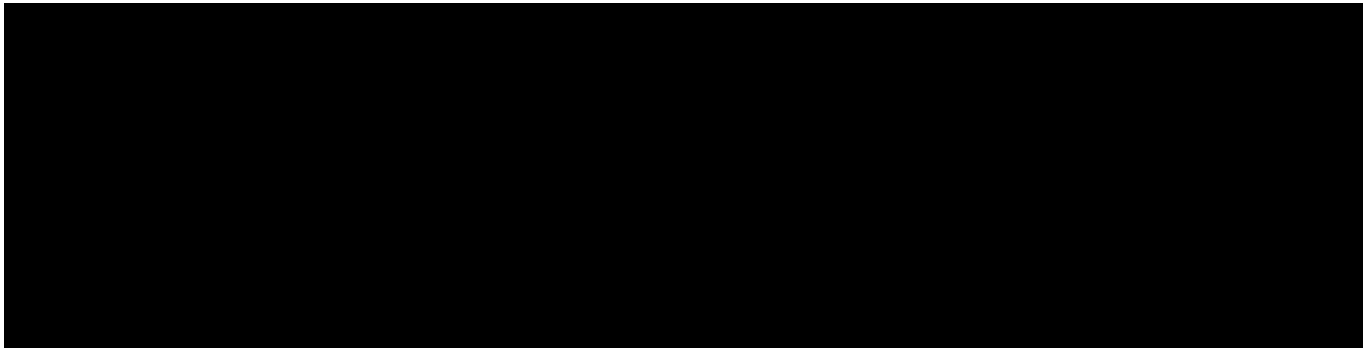
Date Requested: January 26, 2023, Submitted: February 12, 2023

QUESTION 1: For all aspects of the Angeles Link Project, provide the following information and documents about the relationships between SoCalGas, SEMPRA, ARCHES, and the DOE's OCED.

- a. A brief summary of all contracts, legally binding agreements and associated documents executed by and between ARCHES and SoCalGas and/or SEMPRA with a focus on the contractual obligations and the anticipated benefits to SoCalGas and SEMPRA entities.
- b. A brief summary of all contracts legally binding agreements and associated documents executed by and between DOE and SoCalGas and/or SEMPRA with a focus on the contractual obligations and the anticipated benefits to SoCalGas and SEMPRA entities.
- c. Copies of all contracts, legally binding agreements and associated documents executed by and between ARCHES and SoCalGas, and/or SEMPRA.
- d. Copies of all contracts, legally binding agreements and associated documents executed by and between DOE and SoCalGas, and/or SEMPRA.

RESPONSE 1:

The highlighted text in the response below and the attachment is marked Confidential and Protected Materials provided pursuant to PUC Section 583, GO 66-D, D.17-09-023



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QUESTION 2: The project elements that SoCalGas proposed in its submission with ARCHES consists of two, non-contiguous hydrogen pipeline segments in San Joaquin Valley and near Lancaster¹, shown below².

¹ “Accordingly, the Phase 1 Decision directed SoCalGas to join the Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) in support of the State of California’s application for federal funding for a hydrogen hub. SoCalGas did, and ARCHES’ application for federal funding included Angeles Link, detailing the San Joaquin Valley and Lancaster pipeline segments.” Application Of Southern California Gas Company (U 904 G) For Authorization To Implement Revenue Requirement For Costs To Enable Commencement Of Phase 2 Activities For Angeles Link (Angeles Link Phase 2 Application) at 6-7 (citations omitted).

² Figure 4 and Figure 5 depict the five route configurations (Route A, Route B, Route C, Route D, and Route Variation 1) alongside the ARCHES Segments (in blue) in the San Joaquin Valley and Lancaster. Angeles Link Phase 2 Application at 45-46.

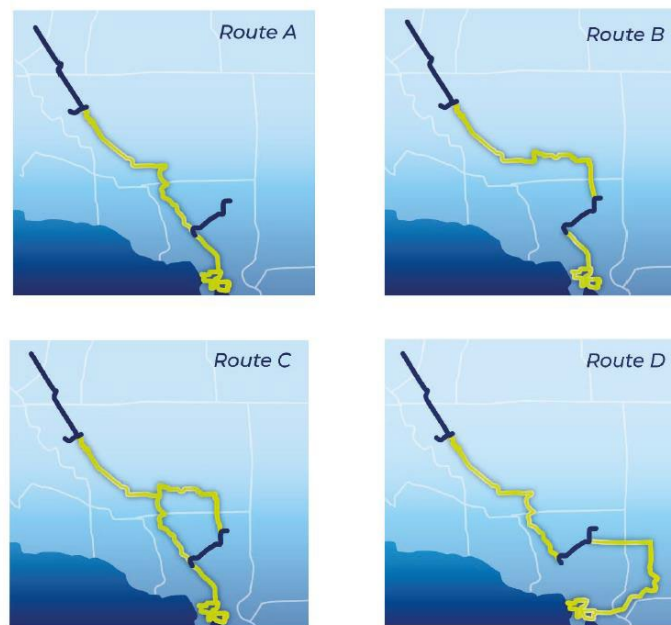


Figure 4. Potential Directional Route Options¹²⁴

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Figure 5. Illustration of Potential Directional Routes and Route Variation 1¹²⁵

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For these two ARCHES segments:

- a. Are other pipeline segments connecting the two proposed ARCHES segments necessary for the ARCHES segments to be operational?
- b. Please explain how and from what sources SoCalGas intends to:
 - i. fund the two ARCHES segments,
 - ii. fund any other segments not funded by ARCHES.

RESPONSE 2:

- a. Angeles Link is envisioned as a non-discriminatory, open-access pipeline system dedicated to public use, transporting up to 1.5 million metric tons of clean renewable hydrogen from regional third-party production and storage sites to end users across Central and Southern California, including the Los Angeles Basin and the Ports of Los Angeles and Long Beach. Because SoCalGas expects that Angeles Link will be constructed in stages to support alignment with ARCHES' timing expectations for the California Hydrogen Hub, the San Joaquin Valley and Lancaster segments (Hub Segments) could be operational prior to the full operation of the broader Angeles Link system. However, the broader Angeles Link system would connect the Hub Segments and holistically provide the necessary pipeline infrastructure for delivering clean renewable hydrogen at scale in Central and Southern California. Angeles Link is anticipated to be approximately 450 miles and the entirety of the system is required to transport the estimated throughput to the end users.
- b. As stated on page 32 of the Application (A.24-12-011), at this time SoCalGas is not receiving federal funding from the IIJA for the ARCHES segments. As discussed on pages 1, 11-12, and 81 of the Application, SoCalGas requests to implement a revenue requirement for Phase 2 of Angeles Link. The Angeles Link Phase 1 Framework for Affordability Considerations identifies potential strategies for addressing cost effectiveness and affordability in the future.

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QUESTION 3: Please explain how the two ARCHES segments would provide utility and independently operate should the other proposed segments of the Angeles Link not be built. Include in your response the regions where hydrogen production will occur, end users for hydrogen served solely by these ARCHES segments, and describe its operation without reliance on other segments of the Angeles Link.

RESPONSE 3:

The ARCHES application to the DOE included Angeles Link, in particular the San Joaquin Valley and Lancaster segments, to connect production sites to offtake sites. SoCalGas expects that Angeles Link will be constructed in stages to support alignment with ARCHES' timing expectations for the California Hydrogen Hub, with the broader Angeles Link system connecting both San Joaquin Valley and Lancaster segments (Hub Segments) and holistically providing pipeline infrastructure for delivering clean renewable hydrogen in Central and Southern California, including in the Los Angeles Basin. Based on currently known information, Angeles Link, including the Hub Segments, can potentially serve multiple production and offtake sites identified by ARCHES. See sites illustrated in the, "Meet ARCHES Fact Sheet"¹ as well as the production and offtake evaluation conducted within the Phase 1 Hydrogen Production Planning & Assessment and Demand Study.

¹ ARCHES H2, Meet ARCHES (October 2023), available here: https://archesh2.org/wp-content/uploads/2023/10/Meet-Arches_October-2023.pdf

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QUESTION 4: Please provide the timing and a description of all the significant milestones that must be completed to receive funding for its ARCHES segments. Include in your response the timing of ARCHES environmental review, any and all estimation and design milestones, when construction must begin, and when the pipeline segments are expected to be operational. Please include any other ARCHES required deadlines not identified herein.

RESPONSE 4:

At this time SoCalGas is not accepting federal funding from the IIJA. Please refer to the Application at 32.

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QUESTION 5: Other than the milestones listed above, what additional conditions does ARCHES require SoCalGas to meet in order to receive ARCHES funding for its proposed ARCHES segments?

RESPONSE 5:

Please see the response to Question 4 above.

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QUESTION 6: If the milestones described in Question 4 are not met, and/or additional conditions explained in Question 5 are not met, will SoCalGas be at risk of losing ARCHES funding?

RESPONSE 6:

Please see the response to Question 4 above.