

EXHIBIT SC-2

Public Company Responses to Sierra Club Data Requests

Data Requests

Evergy Response to Sierra Club Request 1-12

Evergy Response to Sierra Club Request 1-13



Evergy Missouri Metro
Case Name: 2023 MO Metro IRP Annual Update Filing
Case Number: EO-2023-0212

Requestor Rubenstein Sarah -
Response Provided August 01, 2023

Question:SC-1-12

Refer to page 45 of the Missouri West IRP Annual Update and page 39 of the Metro IRP Annual Update where the Company mentions carbon capture and sequestration (CCS) technologies as a potential option for reducing emissions to comply with the EPA's proposed CO₂ emission limits.

a. Do any of the Company's plans meet the requirements of the proposed EPA carbon limits?
i. If so, please explain how compliance is achieved for each coal and gas unit and compliant plan.
ii. If not, please explain why not.

b. Does the Company assume that CCS will be employed to achieve carbon emission reductions in the IRP? Please explain.

c. Does the Company anticipate specifically employing CCS technologies on any of its existing or new fossil fuel-fired generating units in the IRP?

i. If so, please explain which units have been considered, the reason for CCS, timing of CCS installation, and the assumed CO₂ capture rate (%)
ii. If not, please explain why not.

d. Does the Company include the costs associated with retrofitting and/or adding CCS technologies in its IRP modeling?

i. If so, please explain and provide these costs.
ii. If not, please explain why not.

e. If the Company is modeling CCS, does it project the remaining (i.e. uncaptured) emissions from the unit(s)?

i. If so, please provide the remaining emissions from CCS units for all endpoint scenarios.
ii. If not, please explain why not.

f. If employing CCS technologies on any existing or new unit, what does the Company plan to do with the captured CO₂? Please explain.

g. Please provide all cost estimates for CCS reviewed by the Company in the past two years.



RESPONSE: (do not edit or delete this line or anything above this)

Confidentiality: PUBLIC

Statement: This response is Public. No Confidential Statement is needed.

Response:

- a. Evergy has not assessed whether any of its IRP plans would meet the EPA proposed limits.
- b. No. The Company believes that technological improvements and/or substantial cost reductions in CCS or non-carbon emitting fuels will be needed to achieve the rapid decarbonization (“high” carbon dioxide emissions restrictions) endpoints modeled in the IRP. Some recent government policies are providing incentives for this innovation. However, given the uncertainty of how this may evolve over the next 10-15 years, future costs for non-emitting dispatchable technologies are speculative. In the high carbon restriction endpoints, new CC and CT resources are modeled as non-emitting after 2035, with no added cost.
- c. No. See b.
- d. No. See b.
- e. N/a. See b.
- f. N/a.
- g. See NREL forecast in workpaper CONFIDENTIAL_New Build Parameters IRP 2023, which estimates CCS capital costs without transport or storage. These costs were reviewed by the company, but not incorporated into IRP modeling. No other cost estimates for CCS have been reviewed by the Company in the past 2 years.

Information provided by:

Kelli Merwald, Sr. Mgr. Fundamental Analysis

Attachment(s):

Missouri Verification:

I have read the Information Request and answer thereto and find answer to be true, accurate, full and complete, and contain no material misrepresentations or omissions to the best of my knowledge and belief; and I will disclose to the Commission Staff any matter subsequently discovered which affects the accuracy or completeness of the answer(s) to this Information Request(s).

Signature /s/ Brad Lutz



Director Regulatory Affairs



Evergy Missouri Metro
Case Name: 2023 MO Metro IRP Annual Update Filing
Case Number: EO-2023-0212

Requestor Rubenstein Sarah -
Response Provided August 01, 2023

Question:SC-1-13

Refer to page 45 of the Missouri West IRP Annual Update and page 39 of the Metro IRP Annual Update where the Company mentions co-firing hydrogen with natural gas as a potential option for reducing emissions to comply with the EPA's proposed CO2 emission limits.

- a. Does the Company assume that burning hydrogen will be employed to achieve carbon emission reductions in the IRP? Please explain.

- b. Does the Company anticipate specifically burning hydrogen at any of its existing or new fossil fuel-fired generating units in the IRP?
 - i. If so, please explain which units have been considered, the percentage blend of hydrogen (by volume) and timing of achieving hydrogen capability.
 - ii. If not, please explain why not.

- c. Does the Company include the costs associated with retrofitting and/or adding hydrogen capability in its IRP modeling?
 - i. If so, please explain and provide these costs.
 - ii. If not, please explain why not.

- d. If blending hydrogen with natural gas, what type of hydrogen (i.e., grey, blue, green, etc.) does the Company plan to utilize and where will it be sourced from?

RESPONSE: (do not edit or delete this line or anything above this)

Confidentiality: PUBLIC

Statement: This response is Public. No Confidential Statement is needed.

Response:

- a. No. The Company does not have cost assumptions for hydrogen fuel or transport. As discussed in response 1-12, non-emitting dispatchable technology is needed to achieve rapid decarbonization. Hydrogen may be an option if it becomes cost competitive.
- b. No. The Company does not have cost estimates for future hydrogen fuel or transport.



c. New turbines are assumed to be hydrogen-capable based on manufacturer specifications for existing technology. No retrofitting is assumed.

d. New turbines will provide the Company with optionality for future hydrogen blending, but specific sources were not predicted due to the nascency of the US hydrogen market.

Information provided by:

Kelli Merwald, Sr. Mgr. Fundamental Analysis

Attachment(s):

Missouri Verification:

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Signature /s/ *Brad Lutz*

Director Regulatory Affairs