



City of Columbia, Missouri

Meeting Minutes - Final

City Council

Monday, November 20, 2023

5:00 PM

Pre-Council

Conference Room

1A/1B

Columbia City Hall

701 E. Broadway

I. CALL TO ORDER

Mayor Buffaloe called the meeting to order at approximately 5:00 p.m.

The Energy Authority (TEA) Virtual Presentation - Results of the 100% Renewable by 2030 Study.

Attachments: [Draft CMWL 100% Renewable Study](#)

[Draft Financial Impact](#)

Dave introduced representatives from The Energy Authority (TEA). These representatives presented Council members with information regarding the Columbia Missouri Water & Light 100% renewable by 2030 study.

The purpose of this 20-year study (2024-2043) is to determine the impact of achieving 100% renewable energy and capacity by 2030. They went on to discuss the scope as well as different scenarios.

Representatives explained the capacity definitions:

Nameplate capacity - The maximum rated output of a generator

- Units are MW

Firm capacity - A measure of a generator's ability to provide power to the grid when needed

- Calculated by MISO for planning requirements
- Columbia's total firm capacity must be at or above forecasted peak load plus a reserve margin (7.4% during the summer season)
- Units are MW

Bilateral capacity - Firm capacity that is purchased directly from another utility/resource owner

- Purchased when additional firm capacity is needed to meet planning requirements
- This purchase can be long-term (10+ years) or short-term (one year/one season)
- Units are MW

They went on to discuss the different scenarios. Council and Staff as well as the representatives had further discussions.

Lastly, the main takeaways were:

Largest financial impact to Columbia in achieving 100% renewable is if existing thermal resources are retired early.

- Additional risks present if thermal resource retirements are not approved by MISO.

Retirement of existing thermal resources results in substantial bilateral capacity purchases.

- Bilateral capacity assumed to be purchased from any available resource, purchasing strictly from renewable resources would likely result in increased costs.

There is value in setting incremental renewable goals rather than a single goal at a specified year.

- Renewable PPA prices are changing over time, this presents a risk when investing in a large volume of PPAs in just one year.

Additional risks associated with loss of local generation in extreme weather events were not evaluated in this study.

- Congestion rights costs and ancillary services not considered in this study.

Assumed transmission upgrades in alternate case 4 to be complete by 2035 is improbable.

- Transmission upgrade cost is an estimate, further evaluation required for reliability impacts and definite costs.

II. ANY OTHER ITEMS COUNCIL MAY WISH TO DISCUSS

None.

III. ADJOURNMENT

The meeting adjourned at approximately 6:48 p.m.