



Platte River
Power Authority

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MEMORANDUM

DATE: May 11, 2018
TO: Mayor Troxell and City Councilmembers
FROM: Darin Atteberry, City Manager, City of Fort Collins 
Jason Frisbie, General Manager, Platte River Power Authority 
RE: **100% Renewable Electricity Analysis**

Purpose: The purpose of this memo is to outline what analysis can be done in the next 30 days to evaluate a 100% Renewable Electricity goal (100RE).

Response: Within the next month, Platte River and the City would conduct an analysis within five areas:

1. Peer City Review: Fort Collins would include an analysis of Colorado cities and cities nationally that have set 100RE goals and an assessment of their established pathways or plans to achieve the goals (if any).
2. Carbon Inventory Projections: Fort Collins would project the carbon inventory impact of achieving a 100RE goal.
3. A Plan to Study Achievability: Jointly outline what areas need further analysis through which upcoming planning process (IRP, Energy Policy, CAP Framework) such as:
 - Replacement of the firm capacity of coal generation units.
 - Studying intermittent generation balancing needs, while ensuring high reliability
 - Recognition of the rapidly changing technology, e.g., battery storage
 - Feasibility in the presence/absence of an Organized Energy Market, and
 - The role of energy efficiency and distributed energy resources.
4. A Plan to Study Rate Impacts: Jointly outline what future costs and benefits analyses are needed in the IRP to understand rate impacts such as sensitivity analyses on:
 - Natural gas commodity prices
 - Battery storage capital costs
 - Renewable generation total delivered costs, and
 - Broader future energy market conditions
5. A Plan to Align Planning Efforts: Jointly outline how Platte River's and City's upcoming plan/policy updates will be sequenced and aligned. (IRP, Energy Policy, CAP Framework).

In addition to analyzing the goal from these five lenses, staff will also have initial discussions with the CAP Community Advisory Committee on May 31 and the Energy Board at their June 14 regular meeting. Staff will provide this feedback in the memo with the analysis. In addition to these groups, staff is also scheduling a meeting with Platte River and the large energy customers to discuss their request for a separate tariff for additional renewable electricity options.