



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: March 5, 2018

Re: Establishing the Integrated Electric Resource & Master Planning Task Force

Executive Summary

Columbia's Electric Utility is scheduled to conduct another Integrated Resource Plan in 2018. Based on revised electric load forecasts, staff is recommending that a new electric transmission and distribution system planning process be incorporated with the Integrated Electric Resource Plan. This proposed Integrated Electric Resource & Master Planning process will replace all previous planning efforts regarding serving anticipated loads and meeting federal transmission planning requirements. It is proposed that a Task Force be created and appointed by council to interface with this planning process.

Discussion

An Integrated Electric Resource Plan is an approach to meet forecasted annual electric system peak and energy demand plus an established reserve margin through a combination of supply-side and demand-side resources over a specified time period.

Electric System Master Planning is regularly conducted by electric utilities and other load serving entities. Electric System Master Plans provide general guidance for the electric system improvements needed to maintain reliability and serve anticipated loads.

Recent load forecasts show a reduction in the forecasted rate of increase for peak and energy demands. Based on these revised forecasts, staff is recommending that a new electric transmission and distribution system planning process be incorporated with the Integrated Electric Resource Plan. This proposed new planning process will replace all previous planning efforts regarding serving anticipated loads and meeting federal transmission planning requirements.

At this time staff is proposing an Integrated Electric Resource & Master Plan to represent this combined planning effort.

The purpose of this Integrated Electric Resource & Master Plan for Columbia's electric utility is to provide general guidance in planning to meet forecasted annual peak and energy demand, maintain reliability, and serve anticipated loads through a combination of supply-side, demand-side, distribution and transmission resources over a specified time period.

The Integrated Electric Resource & Master Plan will review major activities, system events, system improvements that occurred during past planning cycles, the existing electric system and proposed electric system projects related to generation, transmission, substation and distribution improvements.



City Staff proposes creating the Integrated Electric Resource & Master Plan Task Force consisting of a broad stakeholder group for the following purposes:

- Assist City staff in the planning process associated with the preparation of an updated Integrated Electric Resource and Master Plan in 2018.
- Ensure public participation throughout the process
- Forecast capital needs based on:
 - Capacity requirements
 - System reliability
 - Economic viability
 - Customer satisfaction
 - Stakeholder needs.
- Review the plan for continued compliance with established Electric System Planning criteria.
- Assist staff in developing demand side and capital programs which implement strategic goals and initiatives.
- Assist staff in identifying specific generation, transmission, substation, and distribution system improvement projects, budgets and schedules.
- Assist staff in identifying long range property and right-of-way acquisition requirements.
- Any other matters referred to the Task Force by the City Council.

To support the goal of public participation throughout the process, staff is proposing that the first step would be for an Integrated Electric Resource & Master Plan Task Force to be created. The intent is for this Task Force to be involved in the planning throughout the entire process starting with developing a scope of services for selection of a consultant to support this planning process. Upon completion of the Integrated Electric Resource & Master Plan the Task Force would be dissolved.

City Staff proposes the following stakeholder groups be considered to serve on a City Council appointed Integrated Electric Resource & Master Plan Task Force:

- Five (5) members from the Water and Light Advisory Board
- One (1) member from the Board of Health, appointed by the chair of such Board.
- One (1) member representative of the University of Missouri, appointed by the University of Missouri administration.
- One (1) member representative of the Columbia Public School District, appointed by the Columbia Public School District administration
- Five (5) members representing a diverse cross-section of individuals and service providers, appointed by the City Council from the following groups:
 - Residential Customer
 - Commercial Customer
 - Industrial Customer
 - Columbia Board of Health
 - Environmental Stakeholder



- Neighboring Utilities

- Two (2) ad hoc non-voting members from the Office of Sustainability and the Department of Community Development, appointed by the City Manager.

The planning period typically used in the past has been a 20 year planning horizon. An objective of this Integrated Electric Resource & Master Plan should be to document studies performed and decisions made as part of past planning processes. The Integrated Electric Resource & Master Planning process is intended to provide an opportunity for electric system planners to address complex issues in a structured, inclusive and transparent manner and at the same time provide an opportunity for interested parties both inside and outside the planning area to review, understand and provide input to planning decisions.

Coordination with development of the Climate Action Plan is an important internal issue that will need to be supported. Having these two processes running together should provide an opportunity for the beneficial exchange of useful information. The Integrated Electric Resource & Master Plan report is intended to develop options for environmentally sound power supply strategies which provide reliable electric service at the lowest practical cost and recommend steps for implementation.

Remaining activities that will need to be completed after finalizing the Integrated Electric Resource & Master Plan Report:

- Submission of Integrated Electric Resource & Master Plan to City Council for acceptance
- Develop Capital Improvement Plan, Financing Plans and Rate Impacts
- Review Plans at Pre-Council
- Execute the Public Improvement Process

As discussed at the February 7th Water and Light Advisory Board meeting, the Water and Light Advisory Board provided the following information:

- Expressed concern for the Water and Light Advisory Board to be part of the Task Force
- Passed a motion to comprise the Integrated Electric Resource & Master Plan Task Force of eleven voting members
- Passed a motion to include Financial, Social Equity, Engineering and Solar with the list provided by staff
- Passed a motion to include a reminder to Council that they can appoint the number of ad hoc members as they feel necessary
- Passed a motion to recommend the Integrated Electric Resource & Master Plan Task Force with amendments to Council

Fiscal Impact

Short-Term Impact: N/A

Long-Term Impact: N/A

Strategic & Comprehensive Plan Impact



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Strategic Plan Impacts:

Primary Impact: Primary, Secondary Impact: Secondary, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

Primary Impact: Primary, Secondary Impact: Secondary, Tertiary Impact: Tertiary

Legislative History

Date	Action
1/2/2018	REP 1-18

Suggested Council Action

Approve the resolution to establish the Integrated Electric Resource & Master Planning Task Force