

## Regional Plan Public Hearing Draft

### Page 10-1

The Region's electricity needs will continue to rise due to warming temperatures, drought, increased dependence on technology, the adoption of EVs, electric heating in homes, and growth in population and tourism. ~~In January 2020, APS made a 'carbon free' commitment, setting goals of 65-percent carbon-free grid electricity by 2030 and 100-percent carbon free electricity by 2050. This is a 30-percent improvement compared to the local grid in 2020. In 2024, Arizona Public Service (APS), which supplies electricity to Flagstaff and much of Northern Arizona, provided a 51% clean energy mix – meaning that over half of the electricity provided was sourced from nuclear power or renewable energy. Energy experts expect continued change and uncertainty in electric and energy markets – as regional utilities face growing demand, changes in hydroelectric power associated with changing climate conditions, and continued grid decarbonization.~~

~~The City's goal of achieving carbon neutrality is intrinsically linked to APS' carbon free commitment. The City's carbon neutrality target is directly supported by the decarbonization of the regional electric grid, a transition characterized by the displacement of fossil fuel-based generation with zero-carbon sources such as wind, solar, and nuclear energy. With the growing demand for electricity, the City is prioritizing energy efficiency and educational strategies to reduce demand and utilize cleaner sources of energy.<sup>1</sup> The proportion of emissions from natural gas use is expected to rise as emissions from electricity decline with an increasingly cleaner grid.~~

Formatted: Superscript

Commented [JN1]: This sentence is really confusing, and should just be removed.

### Page 10-2

The City ~~offers~~~~has an~~ incentives program to reduce emissions ~~through being~~ by promoting energy efficiency and encouraging the transition to electricity ~~energy efficient and switching to electricity~~ as the primary energy source for buildings. This strategy will reduce climate pollutants, especially as the proportion of renewable energy that powers the electrical grid increases. Emissions from electricity currently constitute approximately 25 percent of all of the City's GHG emissions.<sup>4</sup> Fuel switching ~~combined with the continued decarbonization of the on pace with APS's objective to have a 100-percent clean~~ electricity grid ~~by 2050 would~~ can eliminate a significant portion ~~one quarter~~ of the City's emissions. ~~In combination with the various fuel switching strategies, the impact of clean electricity could be even greater.~~