Modeling Software Supplemental Description. In addition to the Excel-based financial model, the city is using two pieces of proprietary software: HOMER and DPL.

HOMER.
HOMER is an energy modeling software designed to evaluate the economic and technical feasibility of a large number of technology options and to account for variations in technology costs and energy resource availability. Rather than predetermining a resource mix and modeling to match it, HOMER accepts prices, emissions intensities, and other inputs and then uses them to generate resource packages based on constraints like least-cost generation or lowest emissions generation. It also allows for sensitivity analysis.

DPL.
DPL links to the Excel-based financial model. It uses a decision tree format to program the financial model to complete many runs in an organized way and to then collect the outputs and process them into weighted averages, risk profiles, and sensitivities. The high, median, and low values for the uncertainties are associated with underlying probabilities that are used to weight the overall likelihood of each model run. Based on evaluating 6 uncertainties with high, median, and low prices for each, 729 model runs were completed per option to generate the expected values (weighted averages) and ranges around the various outputs.