Destination 2045:

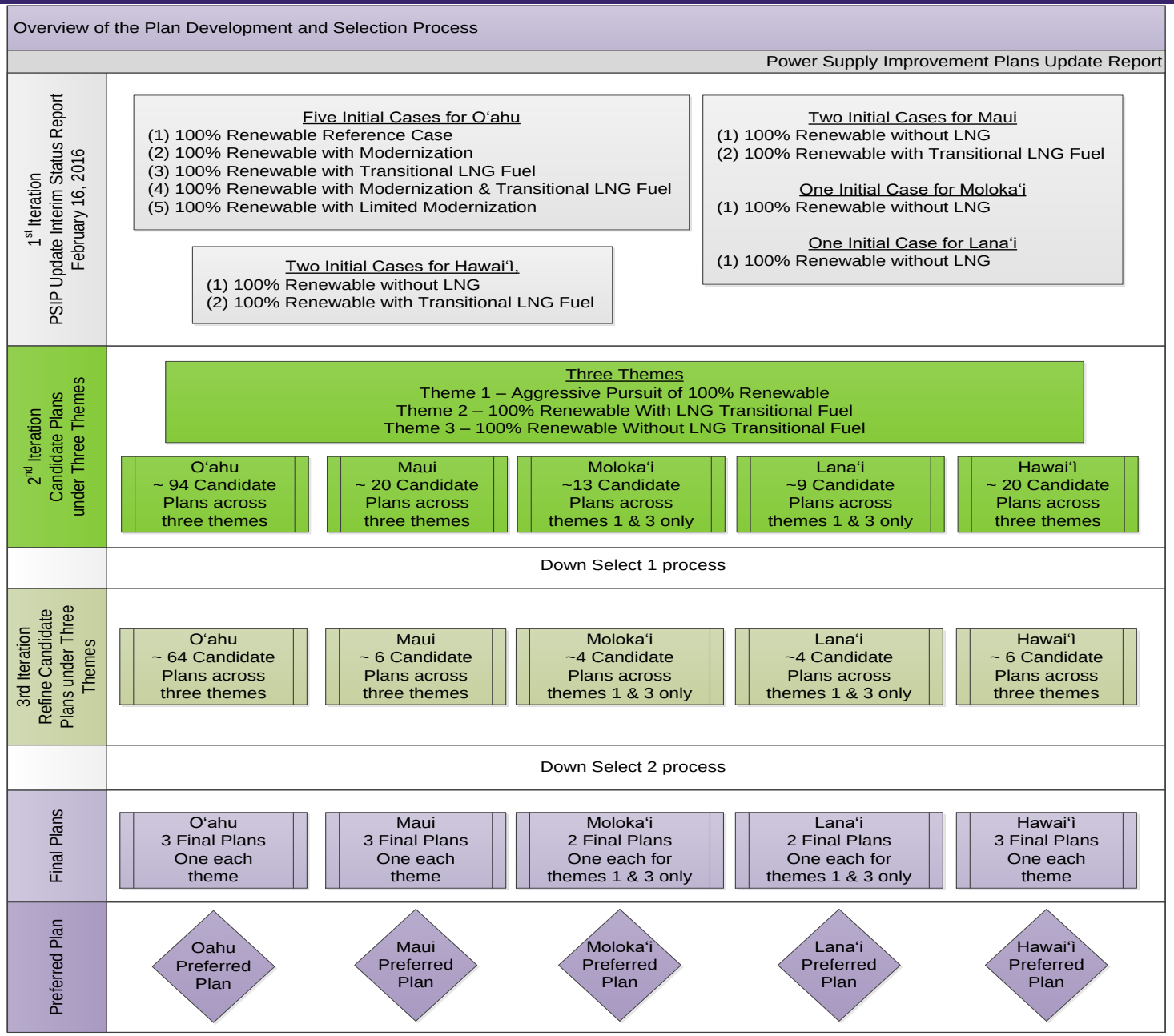
Making Plans for the Clean Energy Journey

Hawaiian Electric
Maui Electric
Hawai‘i Electric Light

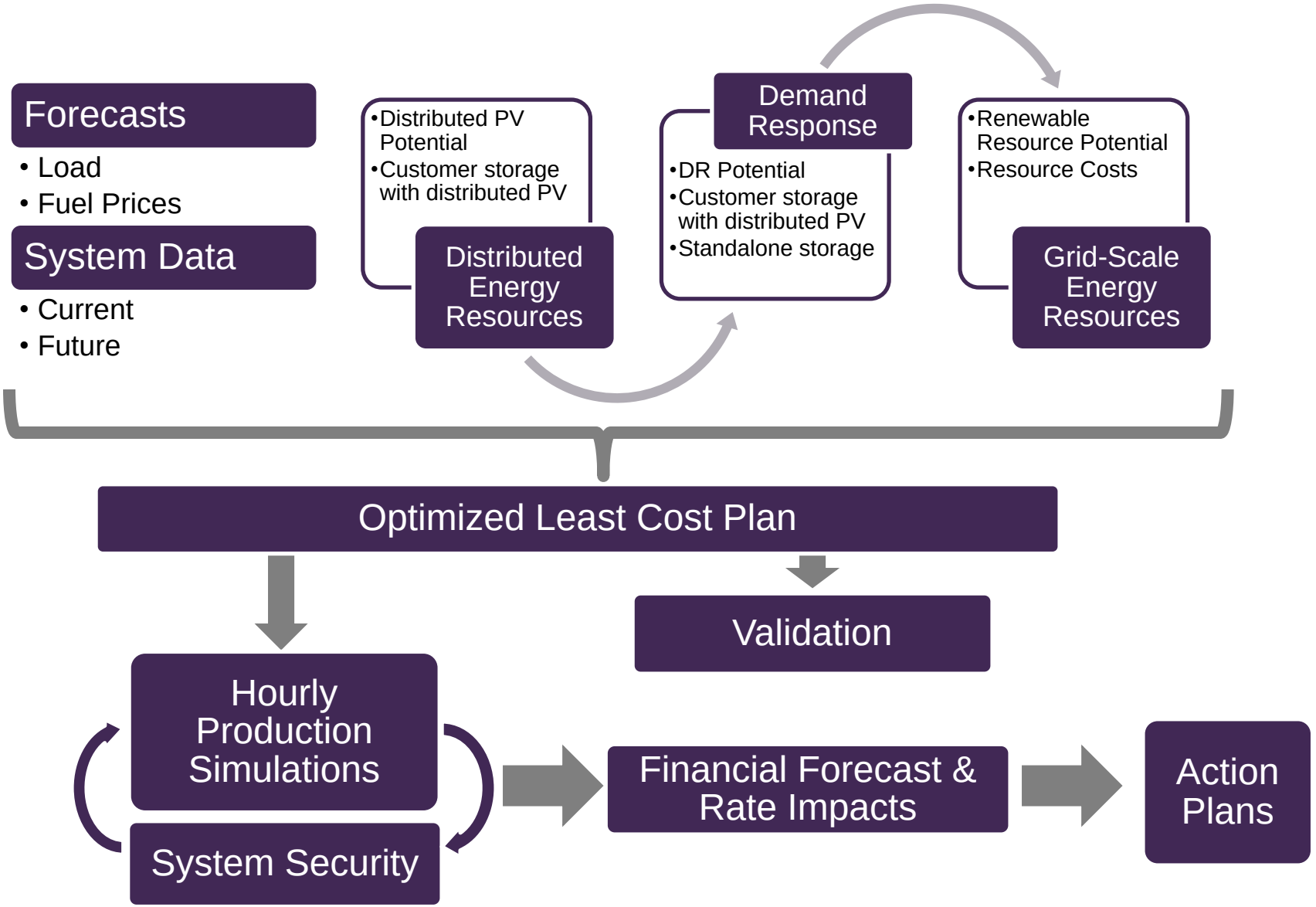
So what's a Power Supply Improvement Plan (PSIP)?

A detailed plan that describes the specific actions that the Hawaiian Electric Companies will take from 2017 through 2021 to accelerate the achievement of Hawai‘i's 100 percent Renewable Portfolio Standard (RPS) by 2045

April 2016 PSIP Resource Planning Process



December 2016 PSIP Resource Planning Process



Multiple models are necessary to develop and optimize system resources

Inputs & assumptions

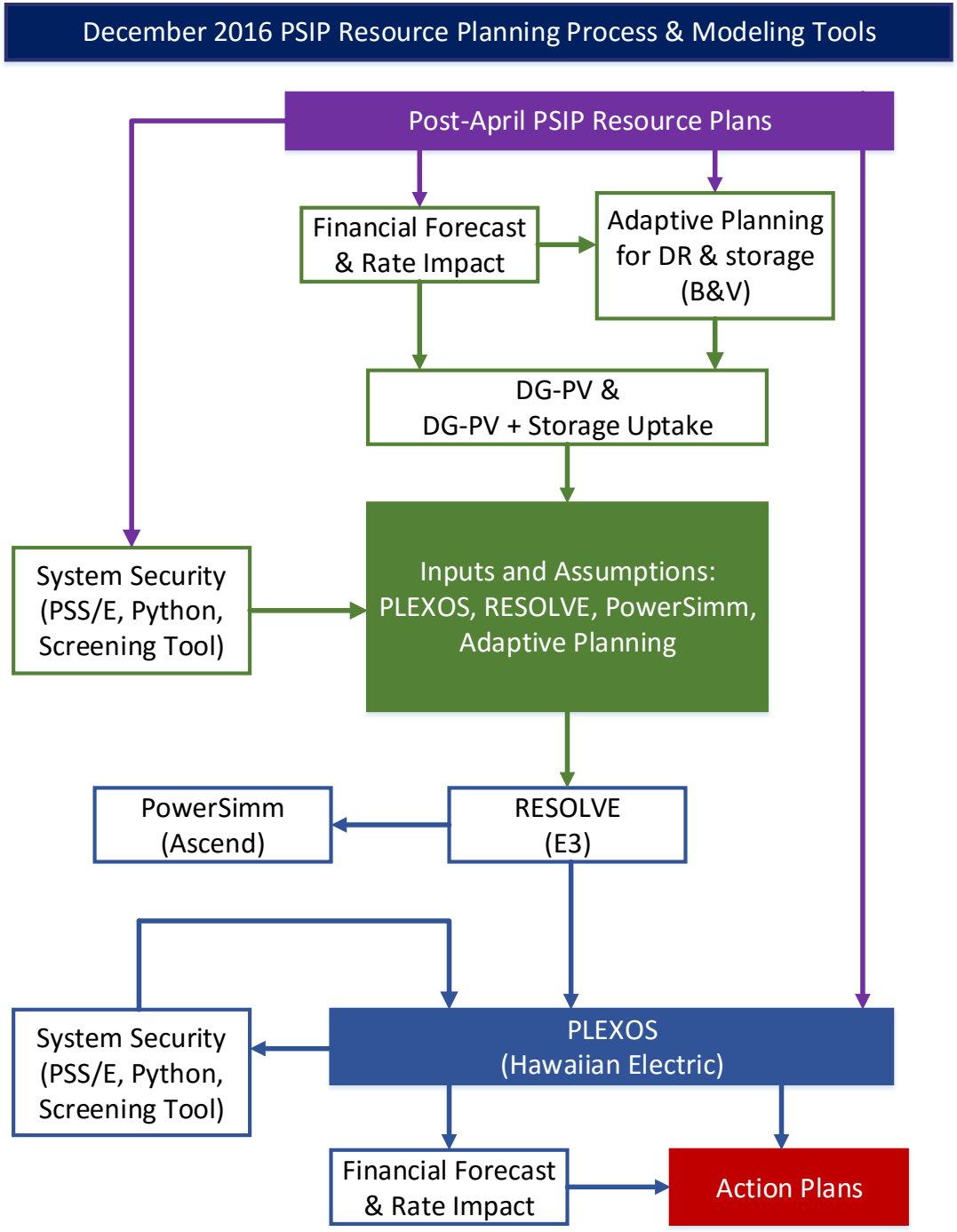
- Assumed high DER forecast possible through wires approach; GMS determined advanced technologies less costly
- Limited transmission upgrade costs included due to uncertainty where grid scale resources would be located

Capacity expansion resource optimization

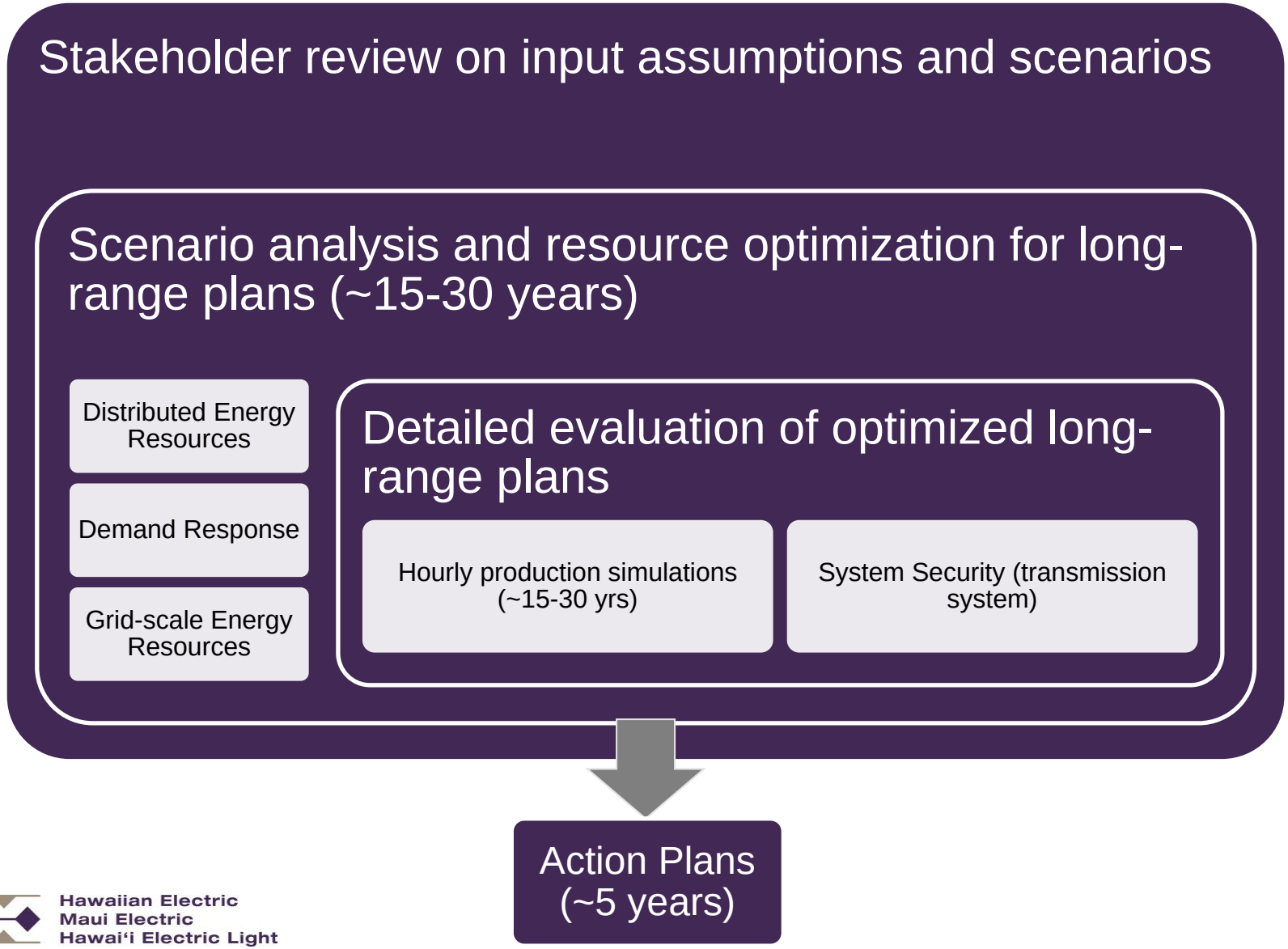
Production simulation

System security analysis

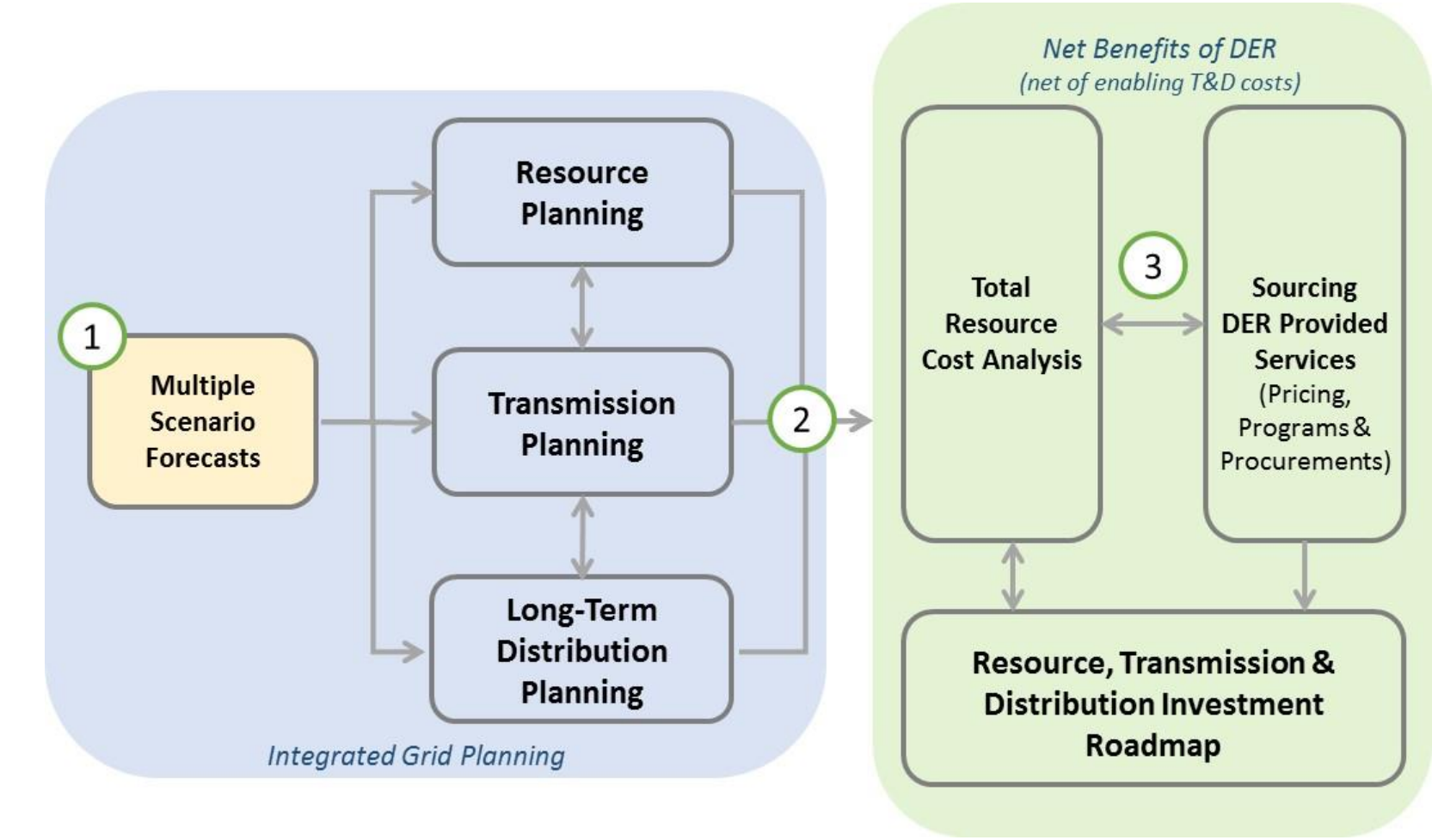
Financial analysis



Our resource planning process used a credible, transparent, and objective analytical approach.



Conceptual Integrated Grid Planning Process



Mahalo!