

Scenario Modeling for HERS Raters



What Problem are We Looking to Solve?

Residential construction is a constantly evolving business with new codes, products, programs, and tax credits always being introduced, requiring HERS Raters to dedicate a lot of time and energy to understanding how these changes impact their clients' home designs. Additionally, builders routinely ask raters to model new building specifications across their entire portfolio of energy models to understand the performance and compliance impact of certain changes. This analysis is not only difficult to produce, but it is also time-sensitive in many cases. Further, testing all of the possible design changes by hand is just not fast, accurate, or robust enough for raters and builders and typically adds significant overhead.

Ekotrope's Scenario Modeling Solution



1. Partner with Ekotrope to Utilize Scenario Modeling

Your clients require complex analyses of a variety of design changes that take up a lot of time and money. By hand, this requires copious research and time. To mitigate these issues, you can partner with Ekotrope to utilize our Scenario Modeling tool measures to support.



2. Select the Design Changes You'd Like to Make

Pick the energy models to analyze, select design changes to be considered, and how each design change should be valued. With the ability to run hundreds of models at once, you can evaluate all specification changes you need in just a click of a button.



3. In Moments, Receive a Comprehensive Report

Scenario Modeling runs all permutations of the changes selected, determines the impact of each, and generates a report that details incentive opportunities, critical thresholds, and more in just minutes, not days.



4. Save Money, Time, and Reduce Errors

With Scenario Modeling, you will quickly understand the most effective method(s) for achieving your energy goals, for all projects with hundreds of varying scenarios in an instant. This allows you to better serve your clients and do so in a much shorter amount of time with virtually zero headaches regarding the analysis of a wide variety of changes.

What is Scenario Modeling?

Scenario Modeling is a premium add-on to Ekotrope RATER, our market-leading cloud-based energy rating software. Scenario Modeling enables HERS Raters to **quickly define many specifications** and determine their impact across **hundreds of energy models at once**. Users can easily evaluate how certain changes will impact home performance, HERS Index, code compliance, and rebate incentives. In just a few clicks, users pick the projects they'd like to analyze, select design changes to be considered, and how each design change should be evaluated (e.g., change in HERS Index, heating and cooling loads, 45L Compliance, etc). Moments later, a **comprehensive report** detailing the cumulative and individual impact of each design change arrives, enabling the HERS Rater to quickly understand the best method to achieve their client's goals.

This saves time, reduces labor costs, eliminates errors, avoids missing incentive opportunities, and ensures that projects pass critical thresholds. Ultimately, however, Scenario Modeling allows raters to be valued partners by providing their clients with the **most accurate and high quality information** in order to make informed decisions.

Features

- ✓ Fully customizable per project(s) needs
- ✓ Define over a dozen design changes per project
- ✓ Analyze the impact of design changes on all of Ekotrope's energy-use and emissions results
- ✓ Analyze impact of code, third-party program and utility rebate compliance; and Federal Tax Credit compliance
- ✓ Analyze hundreds of energy models at once
- ✓ Formatted comprehensive reports in minutes
- ✓ Formatted data files for all scenario design changes

The Ekotrope Difference

- Best in class, real-time customer service
- Easy to use, easy to learn modern interface
- Accessible on any device from any location
- No version confusion: automatic software updates that are fully backwards compatible
- Immediate data access via API

