

Place a BESS, cost it, and ship a proposal + blueprint — start to finish.

A tour of the Guided Build wizard in the ClearSky-OMEGA SiteMap Designer: it walks you from project type through equipment placement, construction costs, and both export formats — using the actual buttons in the tool.

● **Guided Build** wizard

● **Construction** cost estimator

● **Proposal** PDF export

● **Blueprint** / E-sheet export

01 Launch the Guided Build

The wizard lives on the right-hand ribbon and in the Controls panel. It's the fastest way to lay down a code-compliant single-assembly BESS without hunting for equipment in the catalog.

1

Set your site backdrop first

Before starting the wizard, drop a satellite photo or site schematic and calibrate the map scale. Open **Controls** and set your image + scale so conduit runs measure in real linear feet.

Calibration matters later — the construction estimator prices conduit per LF, and it stays greyed out until the map is calibrated.

2

Click **Guided Build**

Find it on the ribbon (or under **Controls**). This opens the walkthrough-style wizard panel with a step indicator bar across the top.

02 Pick project type, then oftaker

Two setup screens come before any equipment. They decide your one-line topology and seed load/sizing assumptions — get these right and the rest of the wizard auto-routes correctly.

1

Choose Project Type (Step 0)

Three cards. Your pick determines the whole equipment chain and one-line layout.

↵ BTM

Behind the Meter

Peak shaving + demand-charge reduction. Non-export, EMS-enforced. ComEd BESH eligible.

🔌 FOM

Front of Meter

PJM frequency regulation. AC-coupled grid services through a revenue meter.

🚗 EVSE+BESS

EV Charging + Storage

DCFC + BESS demand management. EMS + CSMS control. SGIP / ITC / NEVI eligible.

Then click **Next: Choose Oftaker** ▶.

2

Choose the Oftaker

Who consumes or hosts the energy — **Commercial Customer**, **Factory / Industrial**, **EV Charging**, or **Data Center**. Each seeds a peak-kW and daily-kWh load estimate and drops a labeled load block wired to your AC hub.


Click the oftaker card, confirm the load seed shown, then hit **Start Build** ▶. The wizard jumps to Step 1.


03

Configure & place the BESS

Step 1 of the build is always the battery assembly — everything else wires off it. This is where equipment cost enters the model, so fill it in even for a rough pass.

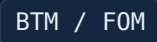
1

Click 

The step card shows  **No BESS configured yet** until you do this. The button opens the BESS configuration modal.

2


Pick a model & set specs

In the modal, choose a battery from the catalog (kWh / kW / manufacturer / model). Set the **equipment cost** here — it flows straight into the construction estimate and proposal total. Confirm the  mode radio matches your project type.

On the container pad, tick what's *integrated* (PCS, disconnect, step-up transformer). The wizard skips those separate placement steps and re-routes the conduit so the chain stays continuous: battery → EMS → meter → POI.

3

Click 

The assembly drops onto the canvas and the step card flips to  **ready** with the kWh · kW · cost summary. Position it, then advance the wizard.

Walk the equipment chain

The remaining steps are mostly click-to-place. The wizard tells you exactly what each element wires to and auto-draws the conduit run from the previous piece.



Site equipment

Concrete pad, 8' privacy fence, bollards (11× per CFC 1207.11.7.3), junction box, main panelboard / POI, revenue meter, and a fire-hydrant location check. For each: read the spec, click **Click to Place**, drop it on the canvas.



Conduit runs (auto-wired)

DC run (RMC, BESS→inverter), AC run (RMC, inverter→XFMR→panel), the BMS/EMS data link (EMT), and the underground PVC trench. Each step notes **Auto-wires from previous** so the linework connects itself.

Skipped a step because it's integrated on the pad? The chain re-routes automatically — no dangling conduit.



Callouts & the “NOT FOR CONSTRUCTION” note

The last build step adds dimension labels, clearance notes, equipment specs, and the

FOR INFORMATIONAL PURPOSES ONLY – NOT FOR CONSTRUCTION stamp for the preliminary set.

Review construction cost

The wizard splices a **Review Construction Cost** step in right before export — you always confirm the numbers before the PDF generates. Every field is live: change a number and the proposal total updates instantly.

1

Open the cost panel

Click **Review Construction Cost** in the wizard, or jump straight there anytime with the **\$ Construction** ribbon button. It opens the estimator with Cost / Incentives / Revenue tabs.

2

Confirm each line

The estimator is pre-seeded with defaults — adjust to your bid. Conduit is priced per linear foot off the calibrated map, so the LF schedule fills in automatically once the map is calibrated.

LINE ITEM	FIELD DEFAULT
CONDUIT — MATERIAL & LABOR PER LF	
AC run (EMT) material	\$8 / ft
AC run (EMT) labor	\$35 / ft
BMS / Data (EMT) material	\$3.50 / ft
BMS / Data (EMT) labor	\$18 / ft
INDIRECT COSTS	
Engineering & Design	\$15,000
Permitting & AHJ	\$3,500
Commissioning	\$8,500
Contingency	10%

Plus BESS equipment cost carried over from the config modal. The live breakdown at the bottom of the panel rolls it all into a gross total.

3

Apply incentives → net cost

On the **Incentives** tab, toggle what applies. Flip on **ComEd BESH** (\$250/kWh C&I, standalone qualifies) or **+ Add Custom Incentive**. The panel shows **Gross** → **Total incentives** → **Net to owner**.

WHY THIS ORDER

Construction cost is deliberately the **last** gate before export. By the time you reach it, the BESS equipment cost, the placed site equipment, and the measured conduit lengths already exist — so the estimate is grounded in the actual drawing, not a guess.

06

Export the proposal

Once costs are locked, the wizard's final action is the proposal. It bundles the site image, the full cost breakdown, and the LOA into one PDF.

1

Click **Export Proposal PDF**

At the end of the wizard the action button becomes **Export Proposal**. You can also trigger it anytime from the **Proposal** ribbon button.

2

What's in the PDF

The generated document renders the sitemap image, the cost breakdown (gross, incentives, net), and a Letter of Authorization — a customer-facing proposal with the **Powered by ClearSky-OMEGA** footer applied.

This is the client-facing artifact. For the internal engineering set, use the blueprint export below.

07 Export the blueprint / E-sheet

The blueprint path produces the AHJ-facing engineering drawing — the E1.0-style sheet with the title block, one-line, and clearance notes.

1

Click [📄 Blueprint](#) or [🖨️ Print / PDF](#)

Both live on the ribbon. This renders the drawing view with the title block, revision line, and the [REV A – PRELIMINARY – NOT FOR CONSTRUCTION](#) stamp.

2

Hand off to the permit set

To turn the drawing into a full AHJ permit package, use [☰ Permit Creator](#) — it carries the sitemap into the PPTX-based E-sheet / S-sheet permit set.

3

Optional: send for validation

When you need an independent engineering review + PE stamp, [➔ Export for Validation](#) routes the set through the Engineering Validation workflow with a tracking ID.

THE TWO EXPORTS, SIDE BY SIDE

- **Proposal** (📄) — customer-facing. Sitemap + costs + LOA in one PDF. Use to win the deal.
- **Blueprint** (🖨️) — engineering-facing. E-sheet drawing with title block → feeds the Permit Creator and validation flow.