ELECTRIC CLOTHES DRYER

BESO Resilience Upgrade Measure

MEASURE INFORMATION

Credits: 1 *(Electric Resistance)* or **2** *(Heat Pump)*

Description:

Electric clothes dryers offer a cleaner alternative to gas dryers by eliminating on-site fossil fuel use and helping reduce a home's greenhouse gas emissions. There are two main types: electric resistance dryers, which use a heating element to dry clothes quickly, and heat pump dryers, which are highly efficient and use less energy by recycling warm air. Switching to an electric dryer is a simple step toward a fully electrified and climate-friendly home.

Installation Criteria:

Replace a gas clothes dryer with a heat pump dryer, electric resistance dryer, or combo washer-dryer heat pump unit. The gas line must be permanently capped. *May require the installation of an electrical circuit and 240-volt outlet.*

Required Verification Documentation:

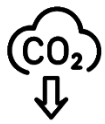
- Permit + approved final inspection – *Include "for BESO compliance" in the scope of work section of your building permit application.*
- Purchase confirmation (receipt or invoice)

Equipment Options:

- **Electric Resistance Dryer** –An electric resistance dryer uses a heating element and fan to blow hot air through clothes, drying them quickly. It's a common type of electric dryer and an easy replacement for gas models. While effective, it's less energy efficient than a heat pump dryer because it doesn't reuse heat—resulting in higher electricity use.
- **Heat Pump Dryer** - A heat pump dryer works as a closed loop system by heating the air and using it to remove moisture from the clothes. Rather than releasing moist air through a dryer vent to the exterior of the home as a conventional dryer does, a heat pump dryer passes humid air in the dryer drum through a condenser to remove the moisture without losing too much heat. Heat pump dryers are a great option for homes looking to lower utility bills and reduce emissions while maintaining effective, gentle drying.

- **Combination Heat Pump Washer and Dryer**: A combo heat pump washer/dryer is an all-in-one unit that washes and dries clothes in a single machine, saving space and simplifying laundry. The drying function uses heat pump technology, which is highly efficient and ventless, making it ideal for small homes, apartments, or places without traditional dryer hookups. While drying cycles may take longer, these units use significantly less energy and help reduce greenhouse gas emissions. Additionally, many combo washer-dryers, also known as all-in-one washer dryers, are designed to operate on a standard 120-volt electrical outlet, eliminating the need to do significant electrical work.

Benefits:



Reduce Emissions

Decrease Utility Bills

ADDITIONAL RESOURCES

ENERGY STAR Rated Dryers:

- For even more savings, consider ENERGY STAR certified heat pump dryers - they use almost 30% less energy than conventional clothes dryers. Consumers with high dryer usage and high electricity rates have the potential for large energy and cost savings. Check out the ENERGY STAR product finder to discover highly efficient models.

Permitting Resources:

- For information about the permit process, including permit types and requirements, visit the City's permitting webpage. If you're new to the process or have questions, you can also schedule an appointment with a permit specialist for personalized guidance.

Rebates and Incentives:

- Check the Switch Is On for list of available incentives and rebates.
- Thinking of going all-electric? You could be eligible for **more than $4,000 in incentives** are currently available through the California Energy-Smart Homes program by replacing all gas appliances—such as the water heater, HVAC, stove/oven, and dryer—with electric alternatives.