

## PROJECT DETAILS

PROJECT NAME	EnVision
LOCATION	Clovis
CLIMATE ZONE	13
NUMBER OF LOTS	36
TOTAL INCENTIVE RESERVATION	\$89,400
CONSTRUCTION COMMENCEMENT	2018

## PROJECT TEAM

BUILDER	De Young Properties
ARCHITECT	Gilbert Tapia
HERS RATER	DuctTesters, Inc.
ENERGY CONSULTANT	Derrick Yeung

## PROGRAM SUMMARY

The EnVision project took advantage of the California Advanced Homes program to offset the additional costs of building a zero-energy community. The project's SmartHomes performed an average of 28 percent better than the same standard home built to the prescriptive 2016 California energy code, Title 24, and achieved an average delta EDR of 9.

## PROJECT SUMMARY

De Young Properties implemented advanced energy saving measures in virtually every aspect of the SmartHome design. These homes feature advanced wall framing and high-performance attics, ensuring the homes are extremely well insulated. In addition to energy efficient windows, the project team installed high efficiency electric heat pump DHW and HVAC systems along with ENERGY STAR® appliances. Each of the specified measures exceeds the California building code and results in substantial energy savings.



Figure 1. Exterior of completed model home

*"De Young Properties is committed to improving the lives of families in Central California by offering homes with cutting-edge building science and technology. The De Young SmartHome is more comfortable and healthier to live in, it saves homeowners a great deal of money on energy bills, and it is better for the environment. At De Young EnVision in Clovis, California, we've taken this concept to the max, even beyond the upcoming 2019 Title 24 code requirements, by building Zero Energy homes, which are designed with the potential to produce as much clean energy as they consume in a year. A De Young SmartHome is a smart decision for any family looking for a new home."*

— Brandon De Young, Executive Vice President

# IMPLEMENTED ENERGY MEASURES

Energy efficiency translates to better living for you.



**Lower Energy Bills**  
Pay less and save more.



**Increased Comfort**  
Reduced drafts with an improved building shell



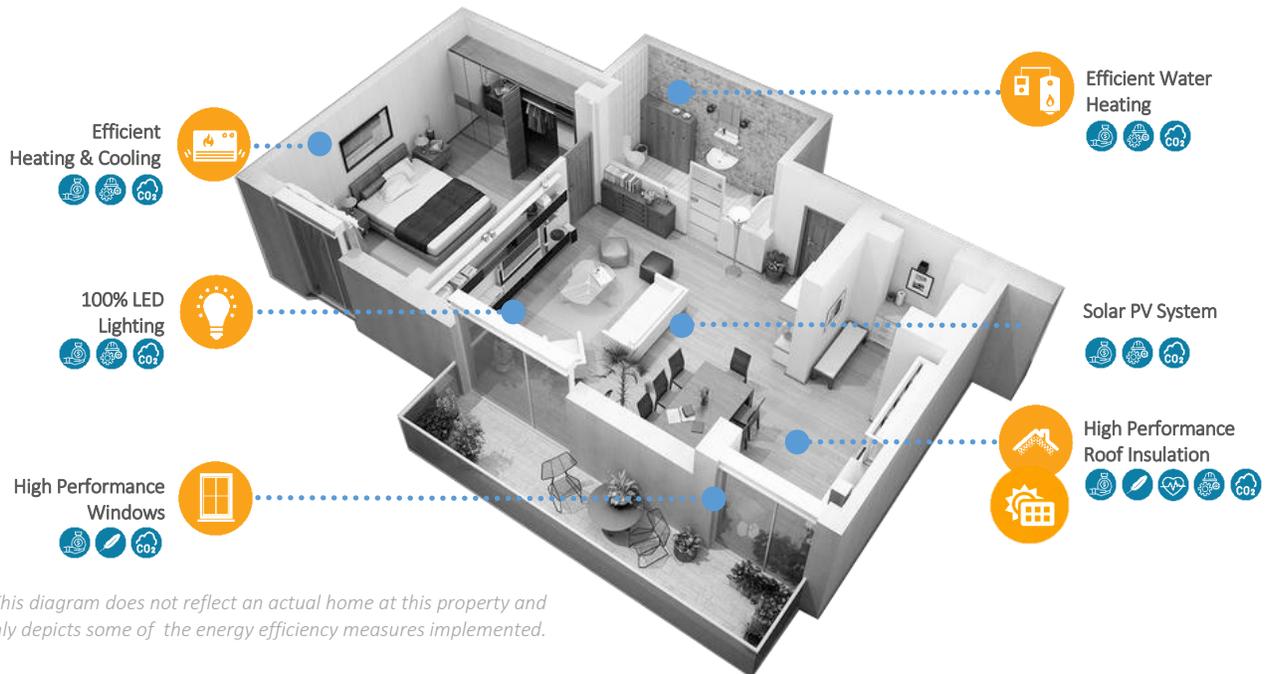
**Healthier Air**  
Better air quality and safe temperature levels.



**No Nuisances:**  
Less maintenance, repairs, noise, and odors.



**A Better California**  
Lower your carbon footprint, for a better California.



## Special Features:

- **Attic:** Unvented, high-performance attic featuring R-38 below deck insulation
- **Walls:** Advanced wall framing with R-21 cavity insulation and R-4 continuous exterior insulation, ensuring occupants have excellent thermal comfort and the conditioned space requires less heating and cooling
- **QII:** Verification of quality insulation installation to ensure maximum thermal performance. QII minimizes air leakage and thermal bridging between the conditioned and unconditioned spaces.

## Mechanical Systems:

- **Water Heating:** Installed an efficient NEEA rated hybrid heat pump water heater with a UEF of 3.7, which is nearly three times as efficient as a standard electric water heater
- **Space Conditioning:** Installed a high-efficiency zonally controlled heat pump HVAC system with a 16.5 SEER two-stage condenser and R-8 insulated ducts, both of which help the heating and cooling system exceed the current prescriptive California energy code by 33 percent