

# NGBS GREEN CASE STUDY

Envy Homes

The New American Home 2022



**NGBS  
GREEN™**  
NGBS.COM

## About the Project

**Project Type:** Single-Family New Construction

**Home Size:** 4,674 sq. ft.

**Location:** Orlando, FL

**NGBS Green Certification:** Emerald Level

(Jan 2022)

**Additional Certifications Earned:**

NGBS Green+ [NET ZERO ENERGY](#) & [WELLNESS](#)

**Website:** [The New American Home](#)

## Project Team:

**Builder:** [Envy Homes](#)

**Architect:** [BSB Design](#)

**Developer:** [Tavistock Development Company](#)

**Interior Design:** [Builders Design](#)

**Verifier:** [Drew Smith](#) & [Josh Kane](#), Two Trails, Inc.

**Sponsored Products:** Various, coordinated with

[NAHB's Leading Suppliers Council](#)



## About TNAH

The New American Home (TNAH) is the official show home of NAHB's International Builders' Show (IBS). For several years, all TNAHs have been built to the rigorous requirements of the National Green Building Standard (NGBS) and have pursued NGBS Green certification by Home Innovation Research Labs. As always, TNAH 2022 features cutting-edge innovations and the latest in building and design trends, products, and techniques.

## Overview

TNAH 2022 showcases innovative products and energy efficiency building concepts that are readily attainable and easily reproducible by industry professionals.

TNAH 2022 is a three-story property that features three bedrooms, three and a half baths, an extra-large two-car garage, exercise area, rooftop terrace, and expansive indoor-outdoor living area with luxurious outdoor kitchen. The primary bedroom suite provides a private sanctuary with separate entrances and spa-like features.

TNAH 2022 is located in the trendy Laureate Park community, which features transitional and modern architecture and has a focus on community engagement.

TNAH 2022 earned Emerald-level NGBS Green, as well as the +NET ZERO ENERGY and +WELLNESS certifications. It also earned the ENERGY STAR, Indoor airPLUS, DOE Zero Energy Ready Home labels.

## NGBS Green Features / Practices

### **Energy Efficiency & Renewable Energy:**

- 100% LED Lighting
- Programmable communication thermostats to control or monitor energy consumption, linked to smart HVAC and lighting control systems
- Exterior shading and motorized shutter shades reduce solar heat intrusion and optimize transmission of natural daylight
- Electrical vehicle charging station onsite
- 13 kilowatt photovoltaic solar array, designed to be 115% higher-performing than the 2018 energy code
- Well-insulated and sealed construction; masonry block wall features exterior continuous reflective foam and injected spray foam insulation
- Insulated hot water pipes and hot water demand recirculation system reduce energy losses through hot water delivery
- Windows with low-e coating and argon gas fill limits solar heat gain and optimizes air tightness



### **Health & Wellness:**

- Walkable community near resources, retail, and restaurants reduces auto dependence and carbon emissions
- Located within one-half mile of mass transit station with pedestrian access
- Low-VOC and other low-emission finishes



## The Verifier Voice

*"Two Trails has been the Sustainability Consultant and NGBS Green Master Verifier for TNAH projects for many years. Projects like this annual showcase home offer building professionals and consumers an up-close look at many different cutting-edge products and green building techniques. We believe visitors will find one or more products or techniques they can implement into their next project, and realize that building green does not need to be more difficult or extremely costly. Finding what makes sense for you and your clients is the best way to deliver a high-performance green certified project.."*

- Drew Smith, NGBS Green MASTER Verifier, Two Trails, Inc.

## A Better Place to Call home

*"NGBS Green Certification is very important to us at Envy Homes. We believe your home should enhance your life. Starting from design, we create homes that prioritize the use of energy, water, and materials. An NGBS Green Certified home provides peace of mind that your home is built at the highest level of building standards and promotes healthy living."*

- Serena Hahn, CEO, Envy Homes

