# PROJECT #1
# One Legacy Circle Office Building

**Owner:**
Trammell Crow Company

**Location:**
Plano, TX

**Gross Floor Area:**
214,110 sf

**Energy Use Intensity:**
44 kBtu/sf/yr

**Percent $CO_2$ reduction:**
57%

**ENERGY STAR design rating:**
96

**Annual Savings Statistics (compared to an average building EPA rating of 50):**

**Energy Savings**
41,368,643.6 kBtu

**CO2 Savings**
2,585.6 tons $CO_2$

## Energy Efficiency

Based on the DOE Energy Model, One Legacy Circle is designed to utilize 26% less energy than comparable Dallas Area Class A Office Buildings.

## Energy Reduction Strategies

- Machine room-less, gearless elevators
- Oversized cooling towers
- Free-cooling/water-side economizers on self-contained AC units on each floor
- Heat recovery system on roof
- Oversized supply air ductwork on each floor
- Variable Frequency Drives on every piece of major mechanical equipment
- $CO_2$ sensors on each floor
- Thermostats with a push-button on each floor for after-hours air
- Direct digital control (DDC) energy management systerm
- SHGC 0.35 low-E glass
- Automated lighting controls
- Parking 95% structured
- Light colored roof membrane
- Shielded exterior lighting
- Water-efficient landscaping, water-saving tree bubbler fittings, and low-angle, pressure-regulating spray heads

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DESIGNED TO EARN THE ENERGY STAR

The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.