



# SUSTAINABILITY

At Dialectic, we believe in a greener future. That’s why we’re constantly looking for ways to improve sustainability. And it’s why we recommend environmentally friendly designs in our projects. Some strategies we’ve used include:

- Improving lighting efficiency with strategies that exceed energy codes and maximize flexibility
- Designing higher-performance HVAC systems that feature improved air quality and green refrigerant alternatives
- Specifying plumbing fixtures and water heaters that consume less water and reduce standby losses

For high-performance building systems, **Dialectic** helps clients balance code standards and ecological objectives with business goals. Together, we weigh initial costs and material selection with the benefits of lower energy use and water consumption. We look at sustainability in terms of maintenance and durability as well as energy and water conservation.

**Dialectic** engineers realize sustainability is valuable even if a building isn’t certified. But if an owner wants a building certification, we’re experienced in navigating the current rating systems. We can also recommend the most cost-effective ways to maximize a project’s sustainability within a rating system.

We’ve practiced environmentally responsible design since 1988. Today, we are mechanical, electrical and plumbing (MEP) design leaders in sustainability. This includes LEED certification, utility optimization and energy modeling and audits. **Dialectic** has completed 465 LEED-certified projects across the country and certified over 1,000 Energy Star-labeled commercial buildings.

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## EXPERIENCE

KU Endowment	Chevron Regional Headquarters
KDC Intellicenters	ADP
Perot SystemsEOS	Blue Valley School District

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## SUSTAINABLE SYSTEMS AND STRATEGIES

Variable-primary-pumping central chilled-water cooling plants	Low-temperature cooling	Condensate collection systems
Variable-primary-pumping central hydronic heating plants	Water-source heat pumps	Rainwater collection systems
High-efficiency boiler systems	Modified dual-duct variable air volume	High-efficiency plumbing systems
Displacement ventilation	Outside air monitoring systems	Gray water systems
Underfloor air distribution	Demand ventilation controls	Daylight harvesting controls
Ice storage	Geothermal solutions	Solar water heating & heat pump water heaters
Water-side economizers	VRF cooling & heating	Photovoltaic power
Evaporative condensers	Building energy modeling	System commissioning
Evaporative cooling	High-efficiency lighting design	
	Building automation systems	

