

NOFA 2019 CDBG Green Initiative Opportunities

The 2019 NOFA has an allocation of CDBG funding to invest in energy efficient upgrades that incorporate energy efficient, renewable, and sustainable building standards, practices, and designs. Louisville Metro Government (LMG) recognizes the expansive benefits of energy efficiency improvements and renewable energy installations. Such projects stimulate economic growth, create jobs, increase profits and property values, alleviate urban heat and decrease the amount of pollutants impacting local air quality and global climate change.

Eligible upgrades including, but are not limited to the following options:

Mechanical

- Heating ventilation air conditioning (HVAC) upgrades
- New automated building and HVAC controls
- Variable speed drives (VSDs) on motors fans and pumps
- High efficiency chillers, boilers and furnaces
- Combined Heat and Power (CHP) systems
- High efficiency hot water heating systems
- Heat recovery and steam traps
- Combustion and burner upgrades
- Building automation (energy management) systems

Envelope

- Cool roofs
 - Can save a homeowner [7% to 15% in cooling costs](#)
 - ENERGY STAR products [reduce peak cooling demand by 10% to 15%](#)
- Exterior Insulation Finishing System (EIFS) insulation
- Green roofs
 - Ideal for urban buildings with flat or shallow-pit roofs
 - Help manage storm water, provide insulation, lower the need for heating and cooling, and can reduce the urban heat island effect
 - A typical 2-3 story building could [save 15-25% in summertime energy costs](#)
 - Can be as much as [90° F cooler than a conventional rooftop](#)
 - More info: <https://www.epa.gov/heat-islands/using-green-roofs-reduce-heat-islands>
- Roofing with insulation
- Window and door replacements

Lighting

- High efficiency lighting such as LED lighting
 - Residential LEDs (esp. ENERGY STAR rated products) use at least [75% less energy](#)
- Automated controls

On-site renewable energy systems

- Solar electric (photovoltaic)
- Solar thermal
- Geothermal including heating/cooling
- Heat recovery systems

Water

- Low or no flow fixtures

Other Creative Approaches

- Planting shade trees
 - <https://www.asla.org/treeplacement.aspx>
 - <https://www.arborday.org/trees/climatechange/winterwarmth.cfm>

Additional Resources

- [Sustainable Residential Design](#) (American Society of Landscape Architects)
- [Energy Efficiency - Homes & Appliances](#) (American Council for an Energy-Efficient Economy)
- [Benefits of Green Homes](#) (US Green Building Council)