

Attachment D: Sample CTST Green Project Areas

CTST projects qualify as green if their intent is to achieve one or more of the following green effects:

- 1) Protection of landscape ecosystems and biodiversity (conservation, preservation, and restoration)
- 2) Reduction of energy, water consumption, and materials through high-efficiency strategies
- 3) Reducing carbon-footprint by moving away from fossil fuels (de-carbonization of the economy)
- 4) Minimizing or altogether avoiding the generation of waste and pollution

Additional information for each green practice can be found using the given resources, doing online searches for key words, or contacting local, regional, or national organizations, specialists, and suppliers.

CTST Green Practice	Additional Information	Additional Resources	Green Effect Correlation
Light Pollution Reduction	Replace unshaded exterior light fixtures to reduce upward light pollution	Search for lighting fixtures that are solar lighting and/or dark-sky compliant - http://www.darksky.org/mc/page.do?sitePageId=56422&orgId=idsa .	1
Landscaping Improvements, Softscaping	Native plants, zoned landscaping, mulching, xeriscaping, water efficient landscaping, reduction of maintained grass through replacement with natural landscaping	Native plant and services finder - http://www.plantnative.org/ ; additional information should be gathered through local plant establishments	1, 2
Protection or Restoration of Habitat	Preventing damage to the site during construction, restoration of site post construction, restoration of existing below-quality sites, planting of draught resistant and native plants (avoid alien, invasive, and plants requiring high use of pesticides or fertilizer)	Native plant and services finder - http://www.plantnative.org/	1, 2
Landscaping, Edible Gardens	Plant organic edibles to be used by culinary and/or cafeteria to be treated without pesticides and fertilizer; develop supplemental composting for garden	Organic Gardening magazine online has numerous resources, including regional gardening calendars, information on soil treatment and testing, composting, and more - http://www.organicgardening.com/ ; a knowledgeable gardener is a must	1, 3

Landscaping, Stormwater Design	Runoff control (bioswales, rain gardens, and green roofs)	An overview of bioswales - http://www.upperdesplainesriver.org/bioswales.htm ; information on rain gardens - http://www.raingardennetwork.com/ ; information on green roofs - http://www.greenroofs.org/	1, 4
Construction Activity Pollution Prevention	Set-up of erosion controls, sedimentation fencing, excavated soil stabilization	EPA Construction Pollution Prevention Plans - http://cfpub.epa.gov/npdes/stormwater/swppp.cfm ; related LEED resource - http://www.intheleed.com/ssp1/	1, 4
Use of sustainable and non-toxic materials	Recycled materials, regional materials, rapidly renewable materials, sustainably harvested materials, certified woods, certified green products. Non-toxic green materials such as paints, stains, carpeting for site improvements	Forest Stewardship Council (FSC) - www.fsc.org ; non-toxic paints and stains - http://www.eartheasy.com/live_nontoxic_paints.htm ; Carpet and Rug Institute Green Label Plus - http://www.carpet-rug.org ; online searches for sustainable types of materials will aid further	1, 4
Controllable Thermal Systems	Programmable thermostats	EPA and DOE Energy Star resource on programmable thermostats - http://www.energystar.gov/index.cfm?c=thermostats.pr_thermostats	2
Lighting Improvements	Controllable lighting (dimmers, timers, sensors); replace incandescent light bulbs with LEDs or compact fluorescent bulbs; replace or retrofit T-12 fluorescent fixtures with T-8s; daylighting installation and skylight installation in conjunction with controllable lighting	Engineering support contractor can assist with replacement fixtures and bulbs to retain adequate illumination using energy efficient bulbs; Department of Energy lighting resource: http://www1.eere.energy.gov/buildings/residential/lighting.html ; details on daylighting - http://www.daylighting.org/	2, 4
Heat Island Effect Reduction (Roof)	High-albedo roofing; green roofs	Cool Roofs Rating Council - http://www.coolroofs.org/ ; also http://www.greenroofs.org/	2
On-Site Renewable Energy	Installation of solar panels, wind turbines, etc.	Research on appropriate renewable energies for site and on installation is necessary; solar Information - http://www.solarpanelinfo.com/ ; wind information; the American Wind Energy Association has numerous resources including information on small wind systems - http://www.awea.org/smallwind/smsyslst.html	2

Water Efficiency and Use Reduction, Interior	Install low-flow and/or aerated fixtures in faucets and showerheads, alternative controls for kitchen faucets allowing control of aeration or full flow, foot operated sinks, dual flush toilets, high-efficiency dishwasher and/or washing machine installation, instantaneous water heating in small, remote areas in need of hot water	EPA WaterSense Program - www.epa.gov/watersense ; EPA Energy Star program water-saving criteria - www.energystar.gov	2
Water Efficiency and Use Reduction, Landscaping	Drip irrigation, moisture sensors, timers, rain barrels for landscaping and fleet vehicle washing, landscape zoning	Online research for the mentioned water reducing gardening tools will aide the implementation of landscaping water efficiency	2
Insulation of Buildings	Caulk and weather-strip doors and windows, insulation, and more	DOE on insulation and air sealing - http://www.energysavers.gov/your_home/insulation_airsealing/index.cfm/mytopic=11220	2, 4
Alternative Transportation, Bicycle Use	Installation of multiple bike racks on center and encouragement of use	A general search for bike racks or recycled bike rack will provide options; local bicycle shops may also be of assistance	3
Alternative Transportation, Parking	Provide dedicated priority parking for carpooling, hybrid or alternative energy vehicles, and low-emission vehicles	Create custom parking signs (for example: Reserved Parking for Carpooling and Hybrids or Hybrid Vehicle Parking Only) and buy posts using All State Sign & Plaque - http://www.allstatesign.com/ or a similar parking signage company.	3
Storage and Collection of Recyclables	Organize and provide recycling receptacles for recycling accepted within the center's county; recyclable material categories include automobiles, batteries, construction, electronics, garden/landscaping, glass, hazardous, holiday, household, metal, paint, paper, and plastic; create a centralized center recycling center; collect recyclable and reusable materials from construction projects for reuse and/or donation to area salvage shops	Search for recycling centers by zip code proximity for a variety of materials - http://earth911.com/ ; additional information on recycling - http://www.obviously.com/recycle/	4
Construction Waste Management	Recycling of construction materials, donations to salvage shops, reuse of materials, proper disposal of all materials (toxic and non-toxic)	Search for recycling centers by zip code proximity for a variety of materials - http://earth911.com/	4

Landscaping Improvements, Hardscaping (Heat Island Effect Reduction, Non-Roof)	Use permeable pavement for new or replacement hardscaping, or high albedo or SRI ratings	Information on a variety of permeable pavers - http://www.paversearch.com/permeable-pavers-menu.htm ; information on applications of permeable/porous concrete pavers - http://www.concretenetwork.com/concrete/porous_concrete_pavers/	4
Innovative Projects and Materials	Center-specific green projects may come to mind that have not been outlined here. Please submit other innovative green projects if applicable		1, 2, 3, 4