

Town of Davie

Office of Community Development

http://www.davie-fl.gov/Pages/daviefl_housingCDv/index
954.797.1173
Suite D

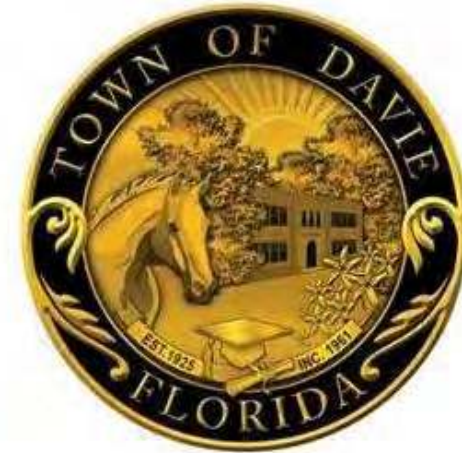
Programs we have to offer :

- Purchase Assistance Program
- Home Repair & Hardening Program
- Barrier Free Programs
- Affordable Housing Development Assistance
- Community Development Block Grant Programs
- Social Service Referral Program
- Target Area Improvement Program
- Neighborhood Revitalization Program
- Community Outreach Programs

Overall Goals

- Upgrade the Existing Housing Stock
- Expand Affordable Rental & Homeownership Opportunities
- Improve & Expand the Infrastructure and Public Facilities
- Promote Self Sufficiency and economic Independence
- Enhance the Quality of Life for Residents of Targeted Neighborhoods which Exhibit Blighting Conditions

List of Available Services



TOWN OF DAVIE **NEIGHBORHOOD SERVICE CENTER**

4700 SW 64TH AVENUE
DAVIE, FL 33314





Want to help your Broward neighborhood Go Solar?

Your neighborhood organization is invited to
grow solar adoption
with the

BROWARD SOLAR CO-OP

- Send an email to your neighborhood
- Post on social media (NextDoor, Facebook, etc.)
- Share the next solar information session
- Place doorhangers around your neighborhood

- *A solar ambassador can provide materials such as doorhangers and yard signs (no contact)*
- *Translation and interpretation available upon request*

Solar United Neighbors, a vendor-neutral nonprofit
helping neighbors go solar, together.

Learn more and sign-up to become a member for free at

www.solarunitedneighbors.org/Broward

Questions? Email us at FLteam@solarunitedneighbors.org



Help spread the word about solar!

Sample Email

Solar United Neighbors of Florida has launched the [Broward Solar Co-op](#). Solar United Neighbors brings homeowners together into a group, or co-op. They provide unbiased, installer-neutral support through each stage of the process of going solar. Their experienced team ensures you understand how solar works, how it can be financed, and how it can be installed on your home.

Co-ops take advantage of the group's bulk-purchasing power to get discounted pricing and a quality installation. Co-op volunteers choose an installer on behalf of the entire group through an open and competitive bidding process. The selected installer provides everyone in the group with a personalized proposal for their consideration; there is no obligation to install. Join the Broward Solar Co-op today at:

<http://solarunitedneighbors.org/Broward>.

Sample Social Media Post

Go solar as a group with the Broward Solar Co-op! With the help and expertise of [@SolarUnitedNeighborsofFlorida](#), Co-op members use their bulk-purchasing power to get discounted pricing and a quality installation. No cost to join and no obligation to install. Learn more and become a member today at [SolarUnitedNeighbors.org/Broward](#).

Sample NextDoor Post

Hey neighbors, let's go solar as a group with the Broward Solar Co-op! With the help and expertise of Solar United Neighbors of Florida, Co-op members use their bulk-purchasing power to get discounted pricing and a quality installation. No cost to join and no obligation to install. Learn more and become a member today at [SolarUnitedNeighbors.org/Broward](#).

Solar United Neighbors, a vendor-neutral nonprofit helping neighbors go solar, together.

Learn more and sign-up to become a member for free at

<http://www.solarunitedneighbors.org/Broward>

Questions? Email us at FLTeam@solarunitedneighbors.org



Hope Outreach Center Inc.

www.hopeoutreachfl.org
 954.321.0909
 Suite A

Helping Youth Succeed

- LEAPS Program -
 Afterschool/Homework Assistance Program
- Back-To-School Drive -
 Helping children be prepared for their all important 1st days of school.
- Camp Scholarships

Emergency Services

- Food Pantry
- Partial Financial Assistance
- Counseling -
 Individual and Family Strengthening
- Education & Support -
 Financial, Nutrition, and Parenting support + Women's Support Group
- Employment Assistance -
 Partnered with Employ Florida Marketplace & Work Force One Employment Solutions
- Adopt-A-Family Holiday Drive

Senior Services

- Home Evaluations
- Holiday Meals
- Transportation -
 Whether it is for a Doctor visit, Grocery store trip, Getting your hair done, or a simple Park/Mall visit just to get out.



Crisis Housing Solutions

www.crisishousingsolutions.org
 954.587.0160
 Suite C

Foreclosure Prevention Services

- Review of loan documents
- Comprehensive financial assessments
- Household budgeting
- Ongoing contact with client & lender
- Specifically developing an action plan acceptable to the lender and sustainable by the client

Florida Hardest Hit Fund (HHF) Program

- Assistance to qualified unemployed or under-employed Florida homeowners having difficulty paying their mortgages.
- Applicants may apply online at www.FLHardestHitHelp.org and use Referral Code 43099 or call CHS directly.

First-Time Homebuyer Assistance

- Offer workshops & one-on-one counseling for low-income individuals & families that will assist them in the preparation of a home loan application package with a high likelihood of approval.

Community Stabilization Initiative

- Helps stabilize & revitalize neighborhoods adversely affected by foreclosures.
- Use homes to provide a source of affordable housing for low to moderate income families.
- Make a difference in the lives of families receiving program homes.



EASE Foundation

www.easefoundation.org
 954.797.1077
 Suite B

Emergency Assistance

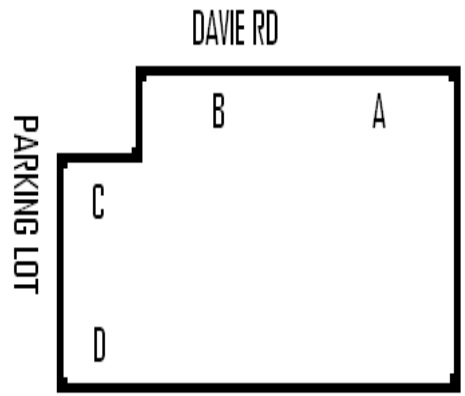
- Providing aid to those qualified residents, on a one time basis, who are in need of temporary emergency assistance.

Food Pantry

Referral & Information

- Our clients need to be employed or have an income from social security, disability, retirement, unemployment compensation or workman's compensation or anything to show fiscal responsibility.

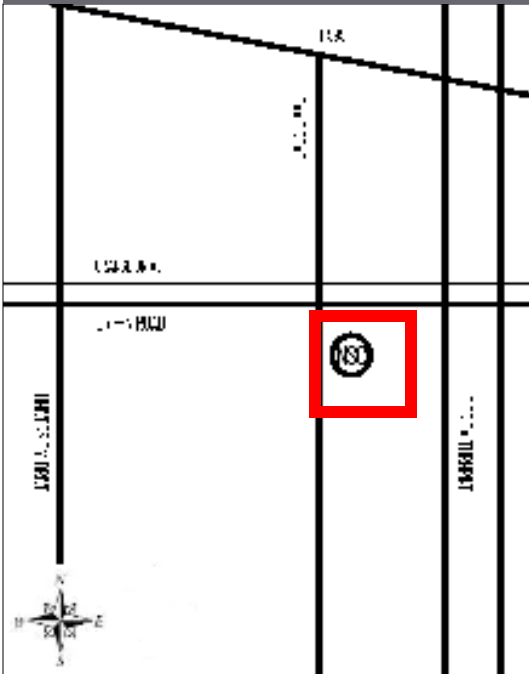
SUITE INDEX FOR NSC



NEIGHBORHOOD SERVICE CENTER (NSC)



LOCATION OF NSC BUILDING



RESOLUTION R-2007-182

A RESOLUTION OF THE TOWN OF DAVIE, FLORIDA, ENCOURAGING CONSTRUCTING, AND OPERATING FACILITIES TO MINIMIZE ENVIRONMENTAL IMPACTS BY INCORPORATING THE USE OF RESOURCES AND ENERGY EFFICIENT MATERIALS, RENEWABLE RESOURCES, ALTERNATIVE ENERGY SOURCES, WATER CONSERVATION, WASTE REDUCTION, POLLUTION PREVENTION AND OTHER STRATEGIC ACTIONS TO PROMOTE SUSTAINABILITY AND GREEN BUILDING DESIGN.

WHEREAS, Sustainability means satisfying our present needs without compromising the ability of future generations to meet their needs; and

WHEREAS, the Town is committed to lead by demonstrating sustainable stewardship that will yield cost savings to taxpayers by reducing Town operating costs, providing healthy work environments for Town staff and visitors, protecting, conserving, and enhancing the Town's resources, and establishing community standards of sustainable living practices; and

WHEREAS, the Town is committed to designing, constructing, and operating Town facilities to minimize environmental impacts by incorporating the use of resources and efficient materials, renewable resources, alternative energy sources, water conservation, waste reduction, pollution prevention; and

WHEREAS, environmentally preferred products are generally produced and disposed of in ways that have less negative impact on human health and the environment because they consume fewer natural resources and less energy, generate less waste, and release pollutants; and

WHEREAS, this resolution will establish the Town as a leader in Florida in setting policies, guidelines, goals and strategic actions that will result in:

- a more sustainable community
- the use of renewable resources
- energy, water and cost savings through the construction, operation and maintenance of high performance buildings and landscapes
- the procurement of environmentally preferred products, materials and services
- increased recycling and materials reuse
- historical preservation
- waste reduction of the source
- healthier and more productive work environments
- less local and global adverse environmental impacts
- reduced Town liability
- minimized future disposal infrastructure needs
- adoption of Environmental Landscape Management (ELM) practices

WHEREAS, an Ordinance is necessary to accomplish the proper purpose of protecting said community from poor development practices in the future.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF DAVIE, FLORIDA:

That the Town Administrator may direct Town staff to develop policies, guidelines, and strategic actions for sustainable building practices for Town facilities. The Town administrator may charge Town staff with overseeing the development and application of the guidelines to all facilities; and

BE IT FURTHER RESOLVED:

SECTION 1. That the Town Administrator may direct Town staff to develop policies, guidelines, and strategic actions for Environmentally Preferred Procurement (EPP) practices for the Town; and

SECTION 2. That the Town Administrator may direct Town staff to provide on-going training and educational opportunities for affected staff to further sustainable stewardship, and that the Town Administrator may direct staff to develop, promote, and implemented sustainable stewardship education programs within the community, and establish marketing partnerships to advance these principles; and

SECTION 3. That the Town shall be guided by established energy efficiency standards providing for an integrated whole building design approach to ensure the best processes are implemented through every phase of design, construction and renovation so that buildings realize substantial economic and environmental benefits through their entire life cycle; and

SECTION 4. That the Town Council directs staff to explore incentives to encourage use of the LEED rating system by private developers of residential and commercial construction and landscaping projects within the Town; and

SECTION 5. That LEED registration and certification through the United States Green Building Council are encouraged but not required under this Article; and

SECTION 6. That all non-covered projects, in the public and private sector, are encouraged to use their best efforts to incorporate as many green building measures as feasible from the LEED Rating System and to peruse LEED registration and certification.

SECTION 7. This resolution shall take effect immediately upon its passage and adoption.

PASSED AND ADOPTED THIS 18th DAY OF July, 2007


MAYOR/COUNCILMEMBER

ATTEST:

Barbara McDaniel
asst TOWN CLERK

APPROVED THIS 18th DAY OF July, 2007

**TOWN OF DAVIE
TOWN COUNCIL AGENDA REPORT**

TO: Mayor and Councilmembers
FROM/PHONE: Mark Kutney, AICP, Development Services Director 954-797-1101
PREPARED BY: Prepared by: Michael Mungal, E.I.T., Engineer II 954-797-1117
SUBJECT: Resolution

AFFECTED DISTRICT: Townwide

ITEM REQUEST: Schedule for Council Meeting

TITLE OF AGENDA ITEM: A RESOLUTION OF THE TOWN OF DAVIE, FLORIDA, ENCOURAGING CONSTRUCTING, AND OPERATING FACILITIES TO MINIMIZE ENVIRONMENTAL IMPACTS BY INCORPORATING THE USE OF RESOURCES AND ENERGY EFFICIENT MATERIALS, RENEWABLE RESOURCES, ALTERNATIVE ENERGY SOURCES, WATER CONSERVATION, WASTE REDUCTION, POLLUTION PREVENTION AND OTHER STRATEGIC ACTIONS TO PROMOTE SUSTAINABILITY AND GREEN BUILDING DESIGN.

REPORT IN BRIEF: The Town Council has requested Town Staff prepare a resolution that demonstrates the Town's commitment to establish and implement policies, guidelines, goals and strategic actions to promote sustainability and preserve and improve the Town's natural and built environment, protecting the health of its residents and visitors.

PREVIOUS ACTIONS: None

CONCURRENCES: None

FISCAL IMPACT: not applicable

Has request been budgeted? n/a

If yes, expected cost: \$

Account Name:

If no, amount needed: \$

What account will funds be appropriated from:

Additional Comments:

RECOMMENDATION(S): recommends that the resolution be adopted by Town Council and that staff bring back an ordinance that will promote green building practices townwide.

Attachment(s): Resolution

Broward County Property Assessed Clean Energy (PACE) Program Performance of Indicators for Properties within the Town of Davie(3)

Year	Quarter	Applications Submitted	Projects Completed(2)	Energy Efficiency	Renewable Energy	Hurricane Protection	Total Financed	Energy Savings Potential (kWh)(3)
2017	Q1	181	54	11	2	45	\$1,373,033	19,744
2017	Q2	183	68	10	3	59	\$1,401,132	71,008
2017	Q3	195	56	12	0	44	\$1,271,352	76,338
2017	Q4	127	50	10	1	43	\$1,169,601	28,727
2018	Q1	165	58	8	3	48	\$1,131,422	41,908
2018	Q2	64	47	18	1	31	\$1,358,320	56,988
2018	Q3	129	47	17	1	32	\$1,074,491	449,249
2018	Q4	109	52	24	4	66	\$1,470,551	58,610
2019	Q1	119	48	11	7	63	\$1,469,387	113,735
2019	Q2	130	38	12	0	56	\$1,576,842	352,485
2019	Q3	158	61	23	3	60	\$5,062,929	32,024
2019	Q4	96	61	17	5	75	\$1,648,099	47,194
2020	Q1	206	62	6	9	66	\$1,630,322	1,678,157
2020	Q2	198	45	8	4	51	\$1,335,029	25,389
2020	Q3	166	53	18	3	67	\$1,679,383	65,075
2020	Q4	122	106	20	6	78	1,776,347	2,981,432
TOTALS		2348	906	225	52	884	\$26,428,240	6,098,063

Notes

(1) Source: Broward County Environmental Protection and Growth Management Department

(2) Number of Projects Completed may have included multiple installed measures.

(3) Estimated Energy Savings (kWh) only includes estimated potential savings from HVAC, windows and solar projects.

SOUTH FLORIDA SUSTAINABILITY GUIDE

PERMIT APPLICATION INFORMATION:

Name:
Company:
Address:
City / Zip:
Phone:
Fax:
E-mail:



SUSTAINABILITY PRINCIPLES:

The Town of Davie Green Energy & Environmental Committee has developed a South Florida Sustainability Guide for new construction and major renovation of commercial, residential, and industrial buildings. The checklist is designed to promote the utilization of environmentally friendly and energy efficient principles and methods consistent with programs such as the U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) and the Florida Green Building Coalition. It is best completed by the homeowner and/or contractor, architect and project team working together to set achievable goals.

Community/Neighborhood – use of compact building design; energy efficient street lighting; fuel efficient automobiles/transit; connectivity, density

Lot Choice – priority uses of small properties in urban areas; use of "greyfield" and "brownfield" lands that can be cleaned; use of lands close to sewer and power lines, mass transit and green space

Site Choice – re-create or preserve wildlife habitat or shelter; replant or donate vegetation; use cleared materials for mulch or landscaping or stabilizing soil; save or reuse topsoil; encourage biodiversity

Water Efficiency/Conservation – use of very efficient clothes washers; low-flow toilets or waterless urinals; use of reclaimed water; innovative irrigation or drought tolerant plants; use of rain gardens, bioswales and cisterns; Florida-friendly native plants

Energy Efficiency/Conservation – use of light colored exterior walls; buildings shaded on the east and west by trees; property sized air-conditioners; use of ceiling fans; energy efficient appliances and indoor lighting; efficient well-pumping; use of alternate electrical grids and/or use of wind/solar/natural gas energy

Materials – use of building materials with recycled content; eco-friendly insulation; lumber from sustainable sources; locally produced materials.

Health – use of detached garage; carbon monoxide alarm; central dehumidification systems; energy efficient bathroom exhaust fans with timer; humidistat; whole house filtration.



MEASURE	SELECT
SITE DEVELOPMENT	
1. Site located in Traditional Neighborhood Development (TND) or small lot cluster development	<input type="checkbox"/>
2. Build with density / compact development (at least 6 units per acre)	<input type="checkbox"/>
3. Develop shared community: resources, facilities, services	<input type="checkbox"/>
4. Build on an infill site	<input type="checkbox"/>
5. Site within 1/4 mile to mass transit, basic community resources	<input type="checkbox"/>
6. Site within 1/2 mile of existing infrastructure	<input type="checkbox"/>
7. Site within 1/2 mile of public open / green space	<input type="checkbox"/>
8. Brownfield site, utilize on-site remediation	<input type="checkbox"/>
9. Greyfield site	<input type="checkbox"/>
10. Avoid prime farmland, wetlands, near water bodies, endangered species habitat	<input type="checkbox"/>
11. Site building to maximize natural features to shade, cool; block / control wind, rain / flooding	<input type="checkbox"/>
12. Orient the building to use cross ventilation	<input type="checkbox"/>
13. Avoid siting livestock barns, sheds near water bodies and wetlands	<input type="checkbox"/>
14. Refer to climate change inundation maps	<input type="checkbox"/>
LANDSCAPING	
1. *Protect / amend native soil use organic compost, fertilizers, pest control	<input type="checkbox"/>
2. *Retain existing viable native trees	<input type="checkbox"/>
3. *Plant / retain deciduous trees on south, shade trees on east and west	<input type="checkbox"/>
4. *No irrigation, practice xeriscaping	<input type="checkbox"/>
5. *Use native adaptive non-invasive, salt tolerant / high wind resistant / food producing	<input type="checkbox"/>
plants/trees, encourage biodiversity	<input type="checkbox"/>
6. *No / minimize turf, < 20% of landscape	<input type="checkbox"/>
7. *No wetland mitigation	<input type="checkbox"/>
8. *Reuse / mill cleared non-toxic, non-invasive materials, trees for mulch / landscape	<input type="checkbox"/>
9. On-site water catchment (rain barrels, underground cisterns) / wet retention / dry detention	<input type="checkbox"/>
10. *Direct filtered rooftop runoff (i.e. gutters) to planted nonedible areas, catchment systems	<input type="checkbox"/>
11. If irrigation is required by code, install high-efficiency micro drip irrigation system	<input type="checkbox"/>
with water sensor, timer	<input type="checkbox"/>
12. Plant edible landscape / food garden. Test soil for nutrients, contaminants	<input type="checkbox"/>
13. Use aquaponics / hydroponics	<input type="checkbox"/>
14. Mulch applied 3-4 inches deep around plants, use non-cypress; recommend	<input type="checkbox"/>
melaleuca, eucalyptus, pine bark and needles	<input type="checkbox"/>
15. Consider designations: NatureScape Broward, National Wildlife Certified Yard,	<input type="checkbox"/>
Florida Friendly Landscape Designation	<input type="checkbox"/>
16. *Plants / turf minimum 2' from foundation	<input type="checkbox"/>
17. *Meet or exceed Florida Water Star standards	<input type="checkbox"/>
18. *Shade / minimize hardscape to reduce heat island effect	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
* Designates a low or no cost item	<input type="checkbox"/>

MEASURE	SELECT
LANDSCAPING CONTINUED	
19. *Maintain pervious surface areas, permeable concrete walkways, open grid pavement driveway	<input type="checkbox"/>
20. Reuse materials or use recycled content materials for landscape areas	<input type="checkbox"/>
21. *Sprinkler heads discouraged, if used minimize overspray, check valves installed	<input type="checkbox"/>
22. *Sprinklers & emitters minimum 2' from foundation, water should not hit building	<input type="checkbox"/>
23. *Swimming Pool/Spa: Consider no swimming pool / spa	<input type="checkbox"/>
24. *Swimming Pool/Spa: Sanitation salt system/ no chlorine use	<input type="checkbox"/>
25. Swimming Pool/Spa: Solar pool heating system	<input type="checkbox"/>
26. Swimming Pool/Spa: Pool pump: variable or dual speed or dedicated PV	<input type="checkbox"/>
27. Swimming Pool/Spa: Pool cover	<input type="checkbox"/>
28. *Waterfront: Use native aquatic vegetation / no turf along shoreline	<input type="checkbox"/>
29. *Waterfront: Use terraces, swales or berms to slow storm water	<input type="checkbox"/>
30. Rainwater harvesting: if use for vegetable garden, avoid collection from asphalt / tar roof, heavy wildlife / vegetation area, divert first 10 mins./1" of rainfall, add carbon filter	<input type="checkbox"/>

* Designates a low or no cost item



MEASURE	SELECT
BUILDING ENVELOPE	
DESIGN	
1. * Site building (as per Zoning Code) to minimum setback from street	<input type="checkbox"/>
2. * Build smaller home, < 2,000 ft. for 3/2	<input type="checkbox"/>
3. * Efficient envelope volume, minimize building footprint	<input type="checkbox"/>
4. * Perimeter based on 2 foot dimensions or materials standard units	<input type="checkbox"/>
5. * Reduce (WFR) Wall to Floor Ratio - recommend .15-.35 (GSF bldg. to vertical Sq. Ft. façade)	<input type="checkbox"/>
6. * Interior floor plan based on 2 foot dimensions or materials standard units	<input type="checkbox"/>
7. Detached garage / Carport	<input type="checkbox"/>
8. Attached garage with air barrier between garage and living space (including attic)	<input type="checkbox"/>
9. Roofed / screened porch, min 100 sq.ft. with 3 sides open, orient to the street	<input type="checkbox"/>
10. 3 in 12 <= roof slope <= 6 in 12	<input type="checkbox"/>
11. * Plan for east through south to west (90° to 270°) roof area for solar use	<input type="checkbox"/>
12. * Exterior walls / roof to be light colored	<input type="checkbox"/>
13. Large overhangs (eave and gable) 3' minimum	<input type="checkbox"/>
14. Consider cupola for passive stack ventilation	<input type="checkbox"/>
15. * Passive solar day lighting, avoid direct south, west exposure	<input type="checkbox"/>
16. Daylighting to penetrate to 75% building interior, use: windows, skylights, clerestories. solar tubes and light shelves	<input type="checkbox"/>
17. Shade windows with eaves, sunshades, canopies, green screens, deciduous trees	<input type="checkbox"/>
18. * Reuse/salvage/recycle original materials; reuse / maintain existing walls, floors, beams, columns, roof	<input type="checkbox"/>
19. Finished floor level at least 12 inches above 100 year flood plain; consider using 500 year flood plain if higher	<input type="checkbox"/>
20. Garage / Carport and driveway sloped to drain away from building	<input type="checkbox"/>
21. Garage / Carport floor at least 4 inches lower than living floor	<input type="checkbox"/>
22. Plan for future renovations, deconstruction. Include Universal Design, flexibility to meet present and future occupants	<input type="checkbox"/>
FOUNDATION	
1. * Use recycled content aluminum forms / reuse form boards	<input type="checkbox"/>
2. Use recycled content aggregate	<input type="checkbox"/>
3. Concrete with fly ash or blast furnace slag (avoid if organic gardening)	<input type="checkbox"/>
4. Insulate solid concrete foundation / slab for heating and air conditioning purposes	<input type="checkbox"/>
5. Drainage tile on and around top of footing	<input type="checkbox"/>
6. Drainage board for below grade walls	<input type="checkbox"/>
7. * Bottom of slab at least 8 inches above graded gravel bed for proper drainage	<input type="checkbox"/>
8. * Seal all slab penetrations / install galvanized steel mesh barrier termite control system around pipes that penetrate the slab	<input type="checkbox"/>
9. * Protect exposed foundation / insulation with moisture resistant, pest-proof cover	<input type="checkbox"/>
* Designates a low or no cost item	<input type="checkbox"/>

MEASURE	SELECT
FOUNDATION CONTINUED	
10. * Capillary break between foundation and framing	<input type="checkbox"/>
11. * Avoid chemical soil treatment, use alternative Florida Building Code approved method of foundation protection	<input type="checkbox"/>
12. Downspouts discharge minimum 3 feet from foundation	<input type="checkbox"/>
13. Condensate lines discharge minimum 3 feet from foundation, 5 feet or > from dryer vent	<input type="checkbox"/>
14. Consider: slab designed for future additions	<input type="checkbox"/>

* Designates a low or no cost item



MEASURE	SELECT
ENERGY	
HVAC	
1. Conduct energy audit of new / remodeling structure (HERS index <85)	<input type="checkbox"/>
2. * HVAC automated controls integrated with lighting, occupancy, security	<input type="checkbox"/>
3. * Proper sizing of HVAC system	<input type="checkbox"/>
4. Install above required code SEER 13, recommend minimum 16	<input type="checkbox"/>
5. Install new or replace old ductwork within conditioned space	<input type="checkbox"/>
6. Install attic ventilation systems when not using spray insulation	<input type="checkbox"/>
7. Install solar attic fan, whole house fan	<input type="checkbox"/>
8. * Consider natural vs. mechanical ventilation; (i.e. building orientation, operable windows, fans, cupola, wind chimneys, material selections)	<input type="checkbox"/>
9. * Install air conditioning with natural refrigerants / no HCFC	<input type="checkbox"/>
10. Shade exterior condenser unit; pad elevation = buliding slab elevation	<input type="checkbox"/>
11. Test for radon, if positive install radon / soil gas vent system	<input type="checkbox"/>
12. * No air handler/return ducts in garage or unsealed garage attic	<input type="checkbox"/>
13. Whole house positive filtration, air admittance vents	<input type="checkbox"/>
14. Central dehumidification system	<input type="checkbox"/>
15. Cross ventilation and ceiling fans	<input type="checkbox"/>
16. * Protect and seal all ducts during construction	<input type="checkbox"/>
17. Duct work smoke tested allowing leaks to be sealed prior to drywall	<input type="checkbox"/>
18. Clean all ducts, change filter(s) before occupancy	<input type="checkbox"/>
19. Install high-efficiency particulate air (HEPA) filter MERV 8 or higher HVAC checkup every two years	<input type="checkbox"/>
20. * HVAC filter easily accessible, change monthly or more if high usage during construction	<input type="checkbox"/>
21. Eliminate wood burning fireplaces; retrofit with EPA certified wood stove / inserts. Install / replace dampers, install airtight doors on fireplace	<input type="checkbox"/>
22. Direct vent, sealed combustion fireplace w/ electronic ignition, factory installed	<input type="checkbox"/>
23. Install separate garage exhaust fan on motion sensor and timer	<input type="checkbox"/>
24. Use duct mastic on all ductwork joints	<input type="checkbox"/>
25. Recycled content air conditioner condenser pad	<input type="checkbox"/>
* Written plan for exhaust and intake vents	<input type="checkbox"/>
26. * Replacing condensing unit check for thermostatic expansion valve (TXV)	<input type="checkbox"/>
RENEWABLE ENERGY	
SELECT	
1. Install Photovoltaic (PV) Panels	<input type="checkbox"/>
2. Install Solar Thermal Panels	<input type="checkbox"/>
3. Consider wind, hydro, hydrogen power	<input type="checkbox"/>
4. Consider biodigester for reduction of waste (horse manure, livestock etc.), energy production, fresh water, compost	<input type="checkbox"/>

* Designates a low or no cost item



MEASURE	SELECT
ENERGY	
ELECTRICAL	
1. * Install programmable thermostat (78° or higher summer, 62° or lower winter)	<input type="checkbox"/>
2. * Install surge suppression / lightening protection system	<input type="checkbox"/>
3. * Replace incandescents with LED bulbs, max. 100W fixtures, or compact fluorescent lightbulbs (CFLs) or standard fluorescent bulbs (LED's Preferred)	<input type="checkbox"/>
4. Exterior building & street lighting energy efficient, avoid light pollution - fixture type (i.e. no globe)	<input type="checkbox"/>
5. Install insulation-compatible (IC) , sealed recessed lighting fixtures	<input type="checkbox"/>
6. Install high quality solar power (PV) walkway lights with motion sensor	<input type="checkbox"/>
7. Energy Star Advanced Lighting Package	<input type="checkbox"/>
8. Install lighting controls include multiple settings, dimmer; occupancy sensor	<input type="checkbox"/>
9. Install automatic systems coordinate HVAC, lighting due to use and occupancy: systems integration - access control / security camera systems and lighting control / energy management / HVAC controls	<input type="checkbox"/>
10. * Security systems to be incorporated at pre-design	<input type="checkbox"/>
11. Install high-efficiency ceiling fans, switch fan rotation summer and winter settings	<input type="checkbox"/>
12. Energy Star bath fans with timer and humidistat	<input type="checkbox"/>
13. * Avoid vampire usage, use power strips. Unplug appliances, electronics etc. when not in use	<input type="checkbox"/>
14. Install carbon monoxide alarm, fire and smoke detector. Monoxide for gas appliances, inside garages, and near generators.	<input type="checkbox"/>
15. * Wire / pre-wire for present / future photovoltaic (PV) installation	<input type="checkbox"/>
16. * Wire / pre-wire 220/240V 40-amp dedicated circuit for home charger electric vehicle	<input type="checkbox"/>
APPLIANCES	
1. Install ENERGY STAR® Appliances: washer, dryer, refrigerator, dishwasher, water cooler	<input type="checkbox"/>
2. Energy-efficient oven / range, clothes dryer	<input type="checkbox"/>
3. * Install washer & dryer outside conditioned space, consider outside clothes line	<input type="checkbox"/>
4. Laundry rooms inside conditioned space must have window or other make-up air source	<input type="checkbox"/>
5. * User-friendly (lever style) clothes washer water shutoff	<input type="checkbox"/>
6. Install horizontal axis washing machine, consider all-in-one washer/dryer	<input type="checkbox"/>
7. Use armored / PEX or metal (except copper) hoses from service to all fixtures / appliances	<input type="checkbox"/>

* Designates a low or no cost item



MEASURE	SELECT
WATER	
PLUMBING	
1. Install solar hot water system or pre-plumb for future system	<input type="checkbox"/>
2. * Insulate all hot water pipes	<input type="checkbox"/>
3. * Compact hot water distribution	<input type="checkbox"/>
4. Low flow faucets and shower heads / install flow reducers in existing	<input type="checkbox"/>
5. All showers equipped with one shower head	<input type="checkbox"/>
6. * Install water shut-off valve in shower	<input type="checkbox"/>
7. Install ultra-low-flush or dual-flush toilets (1.28 gpf or less)	<input type="checkbox"/>
8. No garbage disposal	<input type="checkbox"/>
9. Install tankless water heater	<input type="checkbox"/>
10. * Install timers on water heater tanks	<input type="checkbox"/>
11. * Install sealed water heater / install heater jacket	<input type="checkbox"/>
12. Install on-demand hot water circulation pump	<input type="checkbox"/>
13. Automatic in home water sensor / shut off system installed	<input type="checkbox"/>
14. * Rainwater harvesting for interior and exterior non-potable uses	<input type="checkbox"/>
15. Water shut-off nozzles for all garden hoses	<input type="checkbox"/>
16. Install a greywater system with meter	<input type="checkbox"/>
17. Vanity water collection for toilet flushing	<input type="checkbox"/>
18. * Reclaimed water: Meter on system, volume based pricing arrangement	<input type="checkbox"/>
19. Reclaimed water: Air conditioner, mechanical condensate re-use	<input type="checkbox"/>
(not suitable for edible landscaping)	<input type="checkbox"/>
20. Install chlorine filter on shower heads, consider whole-house water filtration system	<input type="checkbox"/>
21. Consider running hot water line in unconditioned attic, in building's south face	<input type="checkbox"/>
or under driveway	<input type="checkbox"/>
22. Consider running cold water line under slab and/or in building north face	<input type="checkbox"/>

* Designates a low or no cost item



MEASURE	SELECT
HEALTH	
INDOOR AIR QUALITY / FINISHES	
1. Integrated pest management system, no chemicals (interior and exterior)	<input type="checkbox"/>
2. Low dust collecting, durable, low maintenance window coverings	<input type="checkbox"/>
3. No-VOC water based paints, stains, adhesives, sealants, and finishes	<input type="checkbox"/>
4. Choose fragrance free cleaning products; healthier and safer;	<input type="checkbox"/>
could potentially mask harmful, odors that could alert a problem	<input type="checkbox"/>
5. No use of urea-formaldehyde particleboard	<input type="checkbox"/>
6. Substitute particleboard with formaldehyde-free medium density fiberboard (MDF)	<input type="checkbox"/>
7. Install whole house vacuum system	<input type="checkbox"/>
8. * Cleanable mat or grate at entrance areas	<input type="checkbox"/>
9. * Light colored interior and exterior walls, ceilings, flooring	<input type="checkbox"/>
WASTE REDUCTION	
1. Install built-in recycling / compost center	<input type="checkbox"/>
2. * Reduce consumption, avoid over packing, reuse / recycle	<input type="checkbox"/>
3. * Encourage buy back from the supplier	<input type="checkbox"/>
4. Use nontoxic, environmentally safe, biodegradable cleaning products	<input type="checkbox"/>
TRANSPORTATION	
1. Buy fuel-efficient vehicle, refer to Department of Energy fuel-efficient list	<input type="checkbox"/>
2. Buy hybrid, electric, alternative fuel (i.e. solar, hydrogen water, air) vehicles	<input type="checkbox"/>
3. * Follow no idling policy	<input type="checkbox"/>
4. * Support mass transit - bus, train, trolley	<input type="checkbox"/>
5. * Find alternative modes; walk, bicycle	<input type="checkbox"/>
6. * Join a carpool / vanpool	<input type="checkbox"/>
OTHER	
1. Comply with Fortified for Safer Living standards	<input type="checkbox"/>
2. As required by code, barrier free entrance, universally designed living area	<input type="checkbox"/>
3. Engineered/alternative material for outdoor living	<input type="checkbox"/>
4. Safe room	<input type="checkbox"/>
5. Exterior structures and equipment properly anchored	<input type="checkbox"/>
6. * Utilize rebate programs and financial incentives	<input type="checkbox"/>
7. * Use reusable tote bags, not plastic or paper. Avoid cross contamination, especially raw meat;	<input type="checkbox"/>
wash reusable tote bags	<input type="checkbox"/>
8. * For garbage, use bags designed to decompose in a landfill	<input type="checkbox"/>
9. * Verify landfill allows for these bags to decompose properly	<input type="checkbox"/>
10. * Encourage pre-design charette including all stakeholders	<input type="checkbox"/>
11. Building department officials; reviewers, inspectors required to attend LEED Green Associate	<input type="checkbox"/>
12. Class, minimum one LEED AP on staff (recommended speciality BD&C or EB O&M)	<input type="checkbox"/>
13. Develop and implement green educational program and outreach	<input type="checkbox"/>
<p>* Designates a low or no cost item</p>	

MEASURE	SELECT
OTHER CONTINUED	
14. * Buy locally produced foods and goods	<input type="checkbox"/>
15. * Compost organic waste for gardens	<input type="checkbox"/>
16. * Consider making cleaning products from baking soda, vinegar, and borax (no bleach)	<input type="checkbox"/>
17. * Utilize recycling / rebate programs	<input type="checkbox"/>

* Designates a low or no cost item

Additional Resources

U.S. Green Building Council LEED Rating System

<http://www.usgbc.org/leed#rating>

LEED for New Construction & Major Renovations

<http://www.usgbc.org/resources/leed-new-construction-v2009-current-version>

LEED for Existing Buildings: Operations & Maintenance

<http://www.usgbc.org/articles/getting-know-leed-building-operations-and-maintenance-om>

LEED for Commercial Interiors

<http://www.usgbc.org/cert-guide/commercial>

LEED for Core and Shell

<http://www.usgbc.org/discoverleed/certification/bd-c-core-and-shell/>

LEED for Schools

<http://www.usgbc.org/resources/leed-schoolsnew-construction-v2009-current-version>

LEED for Retail

<http://www.usgbc.org/resources/leed-retail-new-construction-v2009-current-version>

LEED for Healthcare

<http://www.usgbc.org/resources/leed-2009-health-care-current-version>

LEED for Homes

<http://www.usgbc.org/resources/leed-v4-homes-and-multifamily-midrise-current-version>

LEED for Neighborhood Development

<http://www.usgbc.org/guide/nd>

Florida Green Building Coalition Certifications

<http://www.floridagreenbuilding.org/homes>

<http://floridagreenbuilding.org/commercial>

<http://floridagreenbuilding.org/hi-rise-residential>

<http://floridagreenbuilding.org/land-development>

StopWaste.org Green Building Guidelines

<http://www.stopwaste.org/about/about-stopwaste/our-green-building>

Living Building Challenge

<https://ilbi.org/lbc>