



# New Smyrna Beach Area Sustainability

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# Community Gardens





# Community Gardens

## New Smyrna Beach Community Garden

505 Mary Avenue

New Smyrna Beach, FL 32168

[cityofnsb.com/1155/Community-Garden](http://cityofnsb.com/1155/Community-Garden)

The New Smyrna Beach Community Garden's mission is to create and maintain a sense of community through a community garden that promotes healthy lifestyle choices and offers a place for those who share a common desire to learn more about gardening. The community garden offers 14 plots for organic gardening.

## Port Orange Community Gardens

4700 S. Clyde Morris Boulevard

Port Orange, FL 32129

This is a community garden with 40 raised plots for vegetable gardening.

## Shaolin Gardens

301 Corral Road

Osteen, FL 32764

[407.432.0511](tel:407.432.0511)

Shaolin Gardens is ready for season two in the Central Florida area. We are currently taking sign ups and the shares are expected to go fast. Our crops will consist of tomatoes, peppers, eggplant, lettuce, beets, carrots, squashes, beans, cucumbers, okra, spinach, and greens such as china choy and mustards, broc, cabbage, and a host of others.







## Farm Resources



# Farm Resources

## UF IFAS Volusia County Extension Urban Horticulture Program

3100 E. New York Avenue  
Deland, FL 32724

☎ 386.506.5852

🌐 [volusia.org/services/community-services/extension/horticulture/](http://volusia.org/services/community-services/extension/horticulture/)

The University of Florida Urban Horticulture Program intends to educate, inform and provide updated information on urban horticulture program activities, education and to support and promote the urban horticulture program.

## Volusia County Farm Bureau

3090 E. New York Avenue  
Deland, FL 32724

☎ 386.734.1612

🌐 [volusiacountyfarmbureau.com](http://volusiacountyfarmbureau.com)

Volusia County has one of the most active farm bureaus in the state of Florida. Membership is strong with roughly 5,300 member families and member benefits are outstanding.







## Sustainable Restaurants



# Sustainable Restaurants

With the increasing use of disposable plastics and overall climate change, coastal habitats and marine environments throughout the world are experiencing the adverse effects more than ever. To protect the 17 miles of beautiful beaches and the Indian River Lagoon, many of New Smyrna Beach restaurants are implementing sustainable, eco-friendly practices. While serving up delicious entrees, these restaurants are cutting down on environmentally harmful products like single-use plastic straws and takeout containers. Others are partnering with community-run gardens to offer fresh, locally grown items or participating in conservation initiatives, like Shuck & Share, in which local restaurants donate their shucked oyster shells to be converted into reef-building materials.

## Icon Key



= Shuck & Share



= Catch & Cook



= Locally Sourced Food



= Paper To Go Products



= General Recycling



= Reduction of Single Use Straws/Plastic/Straws Upon Request

## Café Verde



301 Flagler Avenue  
New Smyrna Beach, FL 32169

☎ 386.957.3958

📧 cafeverdensb.com

Cool, colorful staple spotlighting unique, locally sourced cafe fare, including many veggie options.

## Copperline Coffee & Cafe



5521 S. Williamson Boulevard  
Unit 420

Port Orange, FL 3212

☎ 386.690.0134

📧 copperlinecoffee.com

Offering craft coffee using roasted coffee beans from Island Roasters Coffee Company in New Smyrna Beach.

## Goodrich's SeaFood



253 River Road  
Oak Hill, FL 32759

☎ 386.345.3397

📧 goodrichseafood.com

Historic riverside veteran featuring oysters, po' boys &

Southern-style seafood, plus a back patio. Featured on "Emeril's Florida."

## French Quarter Grille



124 Canal Street  
New Smyrna Beach, FL 32168

📧 facebook.com/  
FrenchQuarterGrilleOnCanal

Serving fresh, locally-caught seafood.

## Hottie Coffee



409 Mary Avenue  
New Smyrna Beach, FL 32168

☎ 386-682-0693

📧 hottie-coffee.com

Fresh-roasted coffee delivered to your door from New Smyrna Beach's original local roaster. Hottie Coffee roasts for coffee shops, cafes, donut shops, B&Bs, individuals - anyone that wants masterfully roasted organic fair trade coffee.

## Island Roasters Coffee Company



394 N. Causeway  
New Smyrna Beach, FL 32169

☎ 386.847.2920

📧 islandroasterscoffeecompany.com

Freshly roasted organic/fair trade coffees. Offering personalized roasts to match your taste.

## JB's Fish Camp



856 Pompano Avenue  
New Smyrna Beach, FL 32169

☎ 386.427.5747

📧 jbsfishcamp.com

Quality and consistency is the motto at JB's Fish Camp. The river produces the sweetest seafood anywhere. JB's depends on professional anglers for the best fish and shellfish because they believe that people should be as proud of their food as JB's is to prepare and serve it.

## Mason Bar



488 N. Causeway  
New Smyrna Beach, FL 32169

☎ 386.410.2904

📧 freshmasonbar.com

FREE CUP OF COFFEE if you take a picture of trash you collected off the beach. Strictly



organic and sustainable  
(recycled plastics, bags, etc)

Mason Bar offers everything from frozen pops to fresh juices, acai bowls and smoothies...all made with natural and organic ingredients, no artificial flavors or preservatives (or anything you can't pronounce!)

## Norwood's Eatery & Treehouse Bar



400 E. 2nd Avenue  
New Smyrna Beach, FL 32169

☎ 386.428.4621

🌐 norwoods.com

A family tradition in New Smyrna Beach, Florida, since 1946. Featuring fresh seafood, chicken, aged beef, and great wines.

## Ocean's SeaFood



601 E. 3rd Avenue  
New Smyrna Beach, FL 32169

☎ 386.423.5511

🌐 facebook.com/pages/oceans-seafood/111727772195975

Unassuming, counter-service spot with a coastal menu & a deli-style seafood market for at-home cooking.

## Off the Hook Raw Bar & Grill



747 E. 3rd Avenue  
New Smyrna Beach, FL 32169

☎ 386.402.9300

🌐 offthehookrawbar.com

Come see what fresh local seafood means. Off the Hook Raw Bar & Grill wants to share what fresh really tastes like.

## Outriggers Tiki Bar & Grill



200 Boatyard Street  
New Smyrna Beach, FL 32169

☎ 386.428.6888

🌐 newsmyrnamarina.com

Festive harbor side tavern with a wraparound bar and a patio serving comfort eats and exotic cocktails.

## Riverpark Terrace



302 S. Riverside Drive  
New Smyrna Beach, FL 32168

☎ 386.427.2903

🌐 riverparkterrace.com

Riverpark Terrace is a fresh new restaurant in New Smyrna Beach featuring modern American fare with a focus on locally-sourced ingredients. They pride themselves on excellent service and high-quality food made with the freshest ingredients, including free-range poultry and eggs, antibiotic-free proteins, fresh seafood, and items with no preservatives or food dyes.

## The Baker's Table



4154 S. Atlantic Avenue  
New Smyrna Beach, FL 32169

☎ 386.423.6656

🌐 thebakerstablensb.com

Charming bistro and bakery offering German specialties and international fare, plus homemade desserts, including fresh doughnuts.

## Third Wave Café & Wine Bar



204 Flagler Avenue  
New Smyrna Beach, FL 32169

☎ 386.402.7864

🌐 thirdwavensb.com

Cozy hub with gourmet coffee, brick-oven pies, global wines and craft beers, plus a garden patio. Third Wave Cafe serves Island

Roasters Coffee and sources much of its produce from local farms. Third Wave Café & Wine Bar is an active member of the James Beard Foundation and Smart Catch Program.

## Tomoka Brewing Company



4647 S. Clyde Morris Boulevard  
Port Orange, FL 32129

☎ 386.256.4979

🌐 tomokabrewingco.com

Rush down an untamed river of Tomoka, fresh from the tap. Tomoka Brewing Co's brews have a unique kick, and their brewpub foods use local, organic & sustainable ingredients – plus a bit of beer – to get your palate a bit closer to nature.

## SoNapa Grille



3406 S. Atlantic Avenue  
New Smyrna Beach, FL 32169

☎ 386.402.8647

🌐 sonapa.com

SoNapa Grille is more than just a restaurant. SoNapa Grille is really about a lifestyle. Besides the obvious namesake attributes of Sonoma County and Napa Valley, the restaurant signifies passion, enriched experiences and simplicity.

## Yellow Dog Eats



147 Canal Street  
New Smyrna Beach, FL 32168

☎ 386.410.4824

🌐 yellowdogeats.com

American joint serving BBQ, sandwiches & craft brews in a colorful, relaxed setting with a patio.





## Farmers Markets/ Produce Stands



# Farmers Markets/Produce Stands

## Edgewater Farmer's Market

127 E. Park Avenue  
Edgewater, FL 32132

☎ 386.424.2400

Every Thursday until September 27, 2018  
4 p.m. – 8 p.m.

## Norwood's Farmers Market

400 E. Second Avenue  
New Smyrna Beach 32168

☎ 561.914.3002

Every Saturday, 8 a.m. – 12 p.m.

Meet the local farmers, the Swiss baker, several growers of edible and ornamental plants, fresh roasted organic coffee, jams, homemade organic soaps and much more — or just relax at Norwood's Tropical outdoor deck and enjoy food and drink while watching all the market activities. Norwood's Restaurant opens at 11:30 a.m.

## New Smyrna Beach Farmers Market

Sams Avenue  
New Smyrna Beach, FL 32168

☎ 386.822.3911

Every Saturday, 7 a.m. – 12:30 p.m.

A faithful mainstay of the city since 1991. The goal of the market is not to create a place where you can buy food. The goal is to create a place where, whenever possible, you can buy food from the person that grew, caught, made, collected or otherwise fostered its creation.

## Oak Hill Farmers Market

351 N. U.S. 1  
Oak Hill, FL 32759

☎ 386.345.3570

Every Friday, Saturday & Sunday, 7 a.m. – 1 p.m.

## The Pavilion at Port Orange Farmers Market

5501 S. Williamson Boulevard  
Port Orange, FL 32128

☎ 386.882.4965

Every Saturday, 8 a.m. – 1 p.m.

The Pavilion at Port Orange Farmers Market is the best local market providing fresh produce, crafts, entertainment, food and fun.

## Perrine's Produce

1044 N. Dixie Freeway  
New Smyrna Beach, FL 32168

☎ 386.423.2336

Monday through Saturday, 8 a.m. – 7 p.m.  
Sunday, 8 a.m. – 6 p.m.

A family owned and operated business that has been selling fresh fruit and vegetables for over 25 years. Perrine's prides itself on providing the freshest produce you can find at affordable prices. Their wide variety of products includes hundreds of various Amish products, local honey, jellies, old-fashioned snacks and, of course, a huge selection of fresh fruits and vegetables. The New Smyrna Beach location has a full-service deli with over 60 types of meats and cheeses. Or, try one of more than 24 homemade ice cream flavors at their New Smyrna Beach location.

## Port Orange City Center Market

1000 City Center Circle  
Port Orange, FL 32129

☎ 386.316.2959

Every Thursday, 9 a.m. – 2 p.m.

Fresh local produce, craft and artisan vendors, raw local honey, food trucks, and more.

## Volusia County Farmers Market

3150 E. SR 44  
Deland, FL 32724

☎ 386.734.1612

Every Wednesday, 7 a.m. – 12 p.m.

Volusia County Wednesday Farmers Market is one of the largest and longest-running farm markets in Florida.





## Local Farms



# Local Farms

Volusia County's farm and ranch families produce a bounty of agricultural products, managing a large portion of our county's land base and serving as caretakers of our natural resources and diverse ecosystems. The annual economic impact of Volusia County's agriculture and natural resources industries is \$781 million, representing three percent of the county's economic activity. The county's 1,114 farms cover more than 229,000 acres and produce agricultural products including fruit, vegetables, honey, cattle, hay, sod, fish, timber and plants.

## Azalea Acres Farm

650 6th Avenue  
Osteen, FL 32764

☎ 407.749.9183

Azalea Acres Farm practices sustainable farming techniques to produce quality, nutritious foods they are proud to share. Products are currently sold at the New Smyrna Beach Farmers Market on Canal Street every Saturday from 7 a.m. until noon. Azalea Acres Farm has been proudly selling our fresh chickens and eggs here since October 2015. By appointment only.

## Bellepacas Farm

275 Canal Avenue  
Oak Hill, FL 32759

☎ 352.209.9843

💻 [bellepacas.com](http://bellepacas.com)

With Ann's love of all things fiber – spinning, knitting, dyeing – and Jack's extensive knowledge of animal husbandry, the owners of Bellepacas Farm love and respect their animals, hoping for excellent stock and superlative fiber. This is an Alpaca farm that produces soap, yarn, cheese, among other things. Bellepacas Farm has a double booth at the New Smyrna Beach Farmers Market every Saturday. By appointment only.

## Cow Creek Farms

4408 Cow Creek Road  
Edgewater, FL 32141

☎ 386.345.0958

💻 [cowcreekfarms.net](http://cowcreekfarms.net)

Cow Creek Farms offers 100% natural cage free eggs, meat chickens, and turkeys. Only the purest grain and freshest green vegetables and grass. State licensed.

## Florida Plant & Tree

4708 SR 44  
New Smyrna Beach, FL 32168

☎ 386.423.9390

💻 [flplantandtree.com](http://flplantandtree.com)

Visit the tree farm of Florida Plant & Tree in New Smyrna Beach, Fla., to get palm trees. They offer a wide variety of cold hardy and tropical palm trees to beautify your landscape. If you need more details on availability, call or stop by the office.

## Green Flamingo Organics

398 N. Putnam Grove Road  
Oak Hill, FL 32759

☎ 386.576.4298

💻 [greenflamingoorganics.com](http://greenflamingoorganics.com)

Green Flamingo Organics is dedicated to bringing beyond

organic, fresh and healthy vegetables, eggs and poultry to anyone and everyone within a 100-mile radius of Oak Hill, Fla. Their tasty, good for the earth goodies can be found at the New Smyrna Beach Farmers Market, and through our Community Supported Agriculture Program from August to May. By appointment only.

## Keely Dairy Farms

2431 S. Glencoe Road  
New Smyrna Beach, FL 32168

☎ 386.314.5111

💻 [keelyfarmsdairy.com](http://keelyfarmsdairy.com)

Keely Dairy Farms believes in responsible, sustainable farming and the local food movement. They feel that farmers should be connected to their customers. At Keely Farms, you will find heritage sized jersey cows with a grass-based diet: no grain, no GMO feed, no hormones, and no antibiotics, with superior animal welfare. Open to the public.

## L & L Farms

1025 SR 415  
New Smyrna Beach, FL 32168

☎ 386.689.7372

💻 [agrilicious.org/l-l-farms](http://agrilicious.org/l-l-farms)

L & L Farms grows a variety of veggies from September to early summer, including collards, kale, broccoli, turnips, cabbage, mustards, etc. They also have a farm stand open on the weekends (Friday – Sunday) from 8 a.m. until 5 p.m. (all year-round).



## Monroe Ashby Farms

1520 Prideaux Road  
Osteen, FL 32764

☎ 386.490.2646

💻 monroeashbyfarms.com

The year-round fresh climate of Central Florida provides one of the most agreeable locations for raising pastured pork. To show their appreciation, the pigs, chickens and cattle all do the fertilizing for free. The busy chickens at Monroe Ashby Farms also provide pest control in the way nature intended. No chemical fertilizers or insecticides are ever needed.

## Pell's Citrus and Nursery

400 Doyle Road  
Osteen, FL

☎ 407.322.3873

💻 pellicitrus.com

You're invited to come visit either of Pell's locations and sample their mouthwatering fruit. In Osteen, you can see how the fruit is processed and browse through 24 acres of ornamental and tropical plants. They also sell many varieties of citrus trees, marmalades and jelly, loose and bagged fruit and our famous fresh squeezed orange and grapefruit juice.

## R & R Sod Farm

3390 Pioneer Trail  
New Smyrna Beach, FL 32168

☎ 386.547.5777

💻 randrsod.com

The sod is sand-grown locally on their farm in New Smyrna Beach, Fla. Being sand-grown develops a more mature root system and a natural environment for when the sod is reestablished.

## Root & Tail Farm

2710 Volco Road  
Edgewater, FL 32141

☎ 386.689.4849

💻 rootandtailfarm.com

Root & Tail Farm aims to provide Southeast Volusia community with the highest quality heirloom produce and heritage proteins. They get dirty every day to make sure Root & Tail's food reaches your table grown with organic, humane, and sustainable practices.

## Sheryl Stock's Produce

1889 Pell Road  
Osteen, FL 32764

☎ 386.547.6935

💻 localharvest.org/

sheryl-stocka-produce-M72041

A licensed farm offering farm fresh eggs from a variety of free-range hens. Eggs range in color from dark/light brown, white and blue/green. Sold in three sizes: dozen, 18-unit packages, and flats (30 eggs). Offering local delivery.

## Sun Splash Nursery

617 Ingham Road  
New Smyrna Beach, FL 32168

☎ 386.427.9816

💻 sunsplashnursery.net

Sun Splash Nursery is dedicated to growing an environmentally, socially and economically sustainable food system for the New Smyrna Beach area. Delicious, affordable, bountiful, healthy, culturally diverse, ecologically sane, locally grown & prepared fruits, veggies, and herb products that sustain families, neighborhoods, livelihoods and the planet.

They manage over 2,000 beehives throughout the year producing Black Mangrove, Orange Blossom, Brazilian Pepper, Gallberry and Wildflower honey. Sun Splash's Black Mangrove honey is the purest

in the state, as they hold the only permit in Florida issued by the FDEP that allows them to access the remote interior islands of Mosquito Lagoon where the world's largest concentration of Black Mangrove lives and thrives as Florida's number one nectar producing flower.

Business hours:

8 a.m. – 3:30 p.m. Everybody is welcome to the farm and tours are available on request. Open for inspection anytime during business hours.

## The Barefoot Farmer of Samsula/Tomazin Farms

191 S. Cucumber Lane  
New Smyrna Beach, FL 32168

☎ 386.547.6087

💻 tomazinfarms.com

A family farm that specializes in growing all types of vegetables. They also raise chickens, ducks, rabbits, and cows. Free home delivery with \$20 weekly veggie box. Order as needed, no obligation, and substitutions allowed. 100% local, "better than organic" local raw milk, meat, eggs, and artisan dairy products. Also available for delivery through their partnership with Keely Farms Dairy. Tomazin Farms also exhibits at the New Smyrna Beach Farmers Market.

## Unity Farms

1055 10th Street  
Osteen, FL 32764

☎ 386.473.4187

Unity Farms raises Lamancha dairy goats to offer raw milk for pet consumption only and cheeses. They also grow spinach, romaine, radishes, red pak choi, potatoes, red and green cabbage, kale, cantaloupe, acorn squash, fennel, beets, dandelion and tomatoes. Coming soon: blueberries, heirloom cherry tomatoes, zucchini, yellow squash and pickling cucumbers.



## Watson's Christmas Tree Farm

180 Cedar Grove Road  
Oak Hill, FL 32759

☎ 386.345.2940

📱 [facebook.com/watsonchristmastree/?rf=311124185660175](https://facebook.com/watsonchristmastree/?rf=311124185660175)

Open for sales November 28th thru December 23rd – Fridays, Saturdays & Sundays  
Hours: 8 a.m. – 5 p.m.







# Sustainability Programs



# Sustainability Programs

## Blue Community Observatory

The New Smyrna Beach Area Visitors Bureau is a member of the Blue Community Observatory. The Blue Community Observatory seeks to protect oceans, coastal habitats and marine environments in Florida through implementing Blue Community and other sustainable tourism strategies. The Waves of Change Blue Community program is an opportunity for coastal communities to declare their own work to protect the oceans and promote ocean sustainability. The oceans are under increasing threats from pollution, overfishing, impacts of climate change including coral bleaching, acidification, and increased storm intensity. The Waves of Change campaign is responding to these issues with ocean clean-up programs, improving ocean literacy, supporting ocean champions, ecosystems restoration, and programs to adapt and mitigate the impacts of climate change.

Unless policies for protection of the oceans and promotion of ocean sustainability are increased, coastal communities are likely to experience adverse impacts. The Blue Community program is a place for learning and sharing those best practices which mitigate those impacts. It currently has 12 strategies in place to protect coastal habitat and marine environments:

- Improve building design – build more sustainably and for disaster reduction
- Promote mass transportation – reduce carbon emissions
- Reduce energy use
- Water conservation
- Improve waste management
- Reduce use of plastic
- Promote local Organic or Hydroponic food
- Promote sustainable seafood
- Protect coastal habitat and cultural heritage
- Clean marina initiative
- Education
- Planning, policy and management





# One Planet Living

One Planet Living is an easy-to-use framework that can help anyone, anywhere, to plan, deliver and communicate sustainability. Bioregional created the One Planet Living framework consisting of 10 intuitive principles that work together to help anyone, anywhere make truly sustainable living a reality.

The One Planet Living framework comprises 10 easy-to-grasp principles and detailed goals and guidance. Together, these provide a clear, practical routemap to create a sustainability action plan for any organization that can engage hearts as well as minds:

1. **Health and happiness** - Encouraging active, sociable, meaningful lives to promote good healthy and wellbeing.
2. **Equity and local economy** - Creating safe, equitable places to live and work which support local prosperity and international fair trade.
3. **Culture and community** - Nurturing local identity and heritage, empowering communities and promoting a culture of sustainable living.
4. **Land and nature** - Protecting and restoring land for the benefit of people and wildlife.
5. **Sustainable water** - Using water efficiently, protecting local water sources and reducing flooding and drought.
6. **Local and sustainable food** - Promoting sustainable humane farming and healthy diets in local, seasonal organic food and vegetable protein.
7. **Materials and products** - Using materials from sustainable sources and promoting products which help people reduce consumption.
8. **Travel and transport** - Reducing the need to travel, and encouraging walking, cycling and low carbon transport.
9. **Zero waste** - Reducing consumption, reusing and recycling to achieve zero waste and zero pollution.
10. **Zero carbon** - Making buildings and manufacturing energy efficient and supplying all energy with renewables.

Contact Bioregional if you need help developing your action plan:  
[bioregional.com/oneplanetliving](http://bioregional.com/oneplanetliving)



# Green Lodging

Launched in 2004, the Florida Green Lodging Program is an initiative of the Florida Department of Environmental Protection (DEP) that designates and recognizes lodging facilities that make a voluntary commitment to conserve and protect Florida's natural resources. The program's environmental guidelines enable the hospitality industry to evaluate operations, set goals and take specific actions to continuously improve environmental performance.

The Florida Green Lodging Program is administered primarily online. To become designated, facilities must conduct a thorough property assessment and implement a specified number of environmental practices in five areas of sustainable operations:

- Communication and Education (Customers, Employees, Public)
- Waste Reduction, Reuse and Recycling
- Water Conservation
- Energy Efficiency
- Indoor Air Quality

## Designation Application

The Florida Green Lodging Program application is designed to allow for the expansion of environmental criteria within each section and, more importantly, the assignment of different "weights" to the criteria based on the potential positive environmental impact.

A minimum point total is required for each section. Applicants are free to select which criteria to implement at their facility as long as the minimum total for that section is met. Failure to meet the minimum number of points will render that section incomplete and will delay designation approval.

## Palm Levels

In an effort to better recognize the state's lodging properties for their commitment to protecting the state's natural resources, the Florida Green Lodging Program is a four-tiered designation. Facilities will be able to obtain different "Palm" levels based on the total number of points received when implementing criteria to receive their designation. The "Palm" levels are as follows:

- One Palm designations will need between 212 and 398 points.
- Two Palm designations will need between 399 and 557 points.
- Three Palm designations will need between 558 and 717 points.
- Four Palm designations will need between 718 and 796 points.



## Green Volusia Program

The Green Volusia Program was established to expand green practices within county government operations and to provide information and education about environmentally responsible practices that benefit the community. The Green Volusia program has many goals, which include encouraging stewardship and conservation of Volusia County's natural resources and promoting an understanding of the benefits provided by these natural resources. The Green Volusia program coordinates the Volusia County Sustainability Action Plan, which was adopted on February 20, 2014.

The plan identifies seven specific sustainability goals:

1. **Provide a Healthy Economy:** create a sustainable business environment, retain viable commercial agriculture operations, and provide a high quality of life through provision of community amenities such as parks, libraries, and cultural amenities.
2. **Maintain a Healthy Environment:** protect, restore, and manage natural lands, manage and protect surface water bodies, protect threatened and endangered species, and plan for adaptation to sea level rise.
3. **Promote a Healthy Community:** encourage local food production, provide for urban open space, improve opportunities for walking and biking, and protect urban tree canopies to provide for the continued health of Volusia County's residents, businesses, and visitors.
4. **Encourage Efficient Transportation and Community Design:** reduce automobile fuel consumption and emissions, improve pedestrian and transit-oriented development, and discourage single-occupancy vehicle use.
5. **Conserve Water and Promote Water Efficiency:** conserve potable water supply through conservation measures applicable to both indoor and outdoor water use in existing buildings and new construction.
6. **Conserve Energy and Promote Renewable Energy:** encourage energy efficiency retrofits for existing buildings, enhance energy performance for new construction, increase use of renewable energy, improve community energy management, provide alternative fuel options, and improve the county's vehicle fleet.
7. **Reduce Waste and Promote Recycling:** build on past county successes to identify strategies to increase waste diversion rates and educate residents to become well-informed consumers.



# The Indian River Lagoon

The Indian River Lagoon is comprised of three water bodies: the Mosquito Lagoon, Banana River and Indian River. The lagoon travels 156 miles along the east coast from the Ponce de Leon Inlet to the Jupiter Inlet. It is the most biologically diverse estuary in the Northern hemisphere and is home to more than 3,000 species of plants and animals and serves as a spawning and nursery ground for many different species of oceanic and lagoon fish and shellfish. It also has one of the most diverse bird populations. Nearly 1/3 of the nation's manatee population lives here or migrates here seasonally, and over 1,000 Bottlenose dolphins live in the Indian River Lagoon. Its ocean beaches also provide one of the densest sea turtle nesting areas.

The 2016 economic valuation can be seen as follows:

- Total annual economic output received from the Indian River Lagoon in 2014 was \$7.6 billion
- \$934 million in annualized real estate value added for properties located on or near the Indian River Lagoon
- \$9.9 billion economic contributions from estuarine-related resources in Volusia County north of Ponce de Leon Inlet
- Recreation and visitor activity related to the IRL: \$1.57 billion
- By 2025, the IRL regions expect to receive 11 million visitors annually

Declaration of support for the IRL National Estuary Program (IRL NEP):

- Southeast Volusia Advertising Authority
- Brevard County Tourism Development Council
- Indian River County Chamber of Commerce
- St. Lucie County Tourism Development Council
- Martin County Office of Tourism and Marketing

Recognition of the importance of the IRL:

- Ecological
- Economic value to our region: nearly 1 million people live and work in the IRL. It accounts for \$300 million in fisheries revenue, \$2.1 billion citrus industry, \$300 million in boat and marine sales annually
- Visitors spend an estimated 3.2 million personal days in recreation on the lagoon
- Protect and restore: water quality, climate change, wildlife, habitats





## Living Shorelines

Living shorelines are an erosion prevention method that use natural barriers such as plants, oysters, and limited rock to protect fragile shorelines while maintaining valuable habitat. Living shoreline projects utilize native and salt tolerant plants at different levels of elevation to avoid the loss of sediment, help to improve water quality via filtration of upland run off, and create habitat for aquatic and terrestrial species. In areas of higher wave energy due to large boat wakes or wind-driven waves, the use of rock may be necessary, or oyster restoration materials may be used to create a new oyster bed while dissipating wave energy and protecting a shoreline.

Many regions in Florida use different methods to create living shorelines. These methods vary depending on tidal influence, severity of erosion, slope, and what is already present on the natural shoreline. Mangroves, shells, marsh grasses, and many species of native plants are commonly used in living shorelines in Central Florida. To learn more about living shorelines in your area, including how to protect your property, please visit [floridalivingshorelines.com](http://floridalivingshorelines.com)

For more information on mangroves, marsh grasses, oysters, native plants and invasive plants please visit the Marine Discovery Center's website: [marinediscoverycenter.org/conservation/shoreline-restoration/living-shorelines](http://marinediscoverycenter.org/conservation/shoreline-restoration/living-shorelines) to learn more about those used in living shorelines and those invasive plants that do more harm than good.





## Marine Discovery Center

Project H2O (Healthy Habitat through Outreach) – Bringing together government agencies, environmental organizations, local universities, and non-profits to collaborate on research, education, restoration and funding opportunities to improve Volusia County waters and the Indian River Lagoon. Protect Our Lagoon Academy is one of the programs in place.

**Shuck and Share:** Lagoon Restoration through oyster recycling is just one component of the Marine Discovery Center’s ongoing efforts to restore shorelines in the area.

The recycling project is a collaboration between the Marine Discovery Center and several local seafood restaurants. Shucked oyster shells from the restaurants are converted into new reef-building materials through volunteer efforts. The shells will be kept out of the landfill and recycled back into the natural system.

The oyster bags and mats, created by volunteers, will be placed into the lagoon to help stabilize shorelines and provide a foundation for oyster communities to rebuild. The mats or bags provide a place for tiny floating oysters, or spat, to settle and grow, and the cumulative weight of the new oyster growth helps build and strengthen the reef.

**Marine Discover Center Sh.O.R.E Program:** The Marine Discovery Center, Atlantic Center for the Arts, and Daytona State College will again host Sh.O.R.E. – Sharing Our Research with Everyone — an annual symposium designed to address current issues and research relating to the Indian River Lagoon (IRL).





# OneLessStraw

The OneLessStraw pledge campaign is a campaign created by One More Generation (OMG) and its partners. The OneLessStraw Pledge Campaign was created as a way to involve everyone by simply saying 'No' to plastic straws. The UN recently published a report stating that plastic pollution is now considered one of the largest environmental threats facing humans and animals globally. The OneLessStraw pledge campaign strives to educate the public about the dangers of single use plastic straws, its effects on our health, our environment and our oceans.

The following are ways that you can help:

- Take the OneLessStraw Pledge [onelessstraw.org/#signup](https://onelessstraw.org/#signup)
- Encourage your favorite business or school to take the pledge and to only provide plastic straws on request. Also ask for them to use biodegradable or reusable options. Become a Sponsor of the OneLessStraw pledge campaign

Why is it important to sign the pledge?

- Each year, 100,000 marine animals and over 1 million sea birds die from ingesting plastic.
- Every day we use 500,000,000 plastic straws. That's enough straws to fill 46,400 large school buses per year.
- U.S. Consumption is equal to enough plastic straws to wrap around the earth's circumference 2.5 times a day!

Sign the pledge today!



# Single-Use Plastics

## THE SOLUTION STRATEGY

The best alternative is to replace harmful plastic products with reusable or refillable products that can provide the same service without using any disposable materials at all.

### Food Wrappers & Containers

- Provide opportunities for bulk purchasing, incentives for bringing reusable bags and containers, eliminating single-use plastics from product lines and food service counters, as well as improving recovery and recycling of plastic film used to wrap pallets.

### Bottle & Container Caps

- Using reusable bottles for water, soda and other beverages solves this problem.

### Beverage Bottles

- Much of the waste from bottled water can be eliminated through investing in easy-to-access public drinking fountains and water bottle refill stations.
- Soda and juice bottle waste can also be cut down through strategies to encourage refillable containers at specialized fountains.
- Businesses, institutions, universities and schools can all contribute by phasing out bottled water and encouraging reusable/refillable bottles and cups for water and other drinks.

### Plastic Bags

- Disposable shopping bags made from high-recycled-content paper or other non-plastic, biodegradable alternatives help prevent plastic pollution.
- Grocers, retailers and take-out food service establishments can implement in-store policies to encourage reusable bags and phase out disposable plastic ones.

### Straws & Stirrers

- Restaurants and food-service establishments can help by switching to a “straws upon request” policy and by providing paper, rye wheat, bamboo, reusable glass, steel or metal straws for eat-in dining.
- For take-out, 100% paper straws can be substituted for plastic, while coffee shops can provide reusable spoons or wooden stirrers.



## Lids

- The best solution is for coffee shops to encourage customers to bring reusable cups with lids, through discount incentives.
- Soda lid waste can also be cut down through strategies to encourage refillable containers at soda and juice fountains.
- It is especially important that any lid designed to contain hot liquids be free of harmful additives.

## Utensils

- Restaurants and food service establishments can help solve the problem by replacing disposable plastic with reusable utensils.
- For take-out, restaurants can also encourage customers to use their own utensils, and substitute single-use, biodegradable options such as bamboo for plastic when customers haven't brought their own.

## Cigarette Butts

- The best alternative is not to smoke.

## Take-Out Containers

- Restaurants and food-service establishments can institute strategies to support customers using reusable or bringing their own take-out and take-away containers.
- For example, restaurants, grocers and food purveyors can provide reusable containers with deposits to bring back to stores.
- They can also provide discounts for bringing your own take-out containers, and non-plastic biodegradable alternatives for customers that don't have them.





## Sustainability Tips





# Sustainability Tips

- Use recyclable/reusable bags instead of plastic
- Conserve water
- Participate in a cleanup event like a beach cleanup
- Join the New Smyrna Beach community garden
- Conserve energy
- Volunteer at the Marine Discovery Center
- Keep Volusia County Beautiful — The educational approach used results in behavioral changes that reduce litter and increase waste prevention and recycling by residents and businesses

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# SUSTAINABLE DEVELOPMENT GOALS



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