



trifecta

Our mission is to develop customized conservation-based solutions for the cost effective implementation of sustainable development and green building.

Our team works with governments, organizations and companies ranging from the U.S. Environmental Protection Agency, **the National Governors' Association**, and the Florida Energy Office to builders and developers that include large national public companies all the way to small community groups.



Statement of Qualifications



## About Us

Sustainable development, green building, and resource conservation all require a comprehensive systems approach when addressing the regulatory and consumer demands associated with our existing infrastructure and future growth. There is no single solution to creating a sustainable, green, or conservation plans because the dynamics of every situation is unique. With more than 14 years of experience, Trifecta has helped clients from across the country identify the sustainability goals that correspond to their business, project or regional needs, and then successfully implement programs that deliver on-time and on-budget results.

The Trifecta name represents the three key elements of sustainability: economics, environment, and community. By embracing the principles of sustainable development, individuals, and the region can benefit from a future with a healthy and well managed community and ecosystem. At Trifecta Construction Solutions we work to facilitate this future through responsible business practices that remain true to the principles of sustainability.

During the past five years, the concept of green building has emerged and become a driving force in the construction, development, and local government initiatives. Our expertise spans local, national and international projects and as such, we have extensive knowledge of all pertinent local,

state, and national green building programs. The Florida Green Building Coalition (FGBC) offers certification programs for local governments, developments, commercial and residential construction that is specific to **Florida's unique climate and development process. The U.S. Green Building Council's LEED™ (Leadership in Energy and Environmental Design) programs** offer a nationally recognized label for green buildings. Trifecta has been actively involved with the U.S. Green Building Council (USGBC) and FGBC since their inception. The Green Building Initiatives Green Globes certification for new and existing buildings is quickly becoming an industry favorite and is rapidly gaining ground in the U.S.

Green Building and sustainable development can also be confusing to many **who are just entering the field. That's where Trifecta can provide valuable** support to your staff to help them understand and navigate through the various concepts of sustainability, how these concepts can be implemented, the metrics needed to ensure improved performance, and quantifying benefits. We also address the cost and value question surrounding local, regional, and national Green Building/Sustainable Development programs. With an in-depth understanding of both the environmental perspective and the budget realities, we can act as a strategic communications partner, working throughout your organization to facilitate solutions that add value.





## Why are we Different

- Our experience, expertise, credentials, and scope of work in sustainability are unparalleled.
  - Our business has always been built around the principles of sustainability, green building, and conservation. We are not an engineering or **environmental company that recently learned “green” concepts to attract new business.**
  - The owner, managing partners, and founders hold advanced degrees, are professional engineers, and contractors. Our team is about implementation that works as well as high performance solutions.
  - We work with our clients to determine what sustainability and green means to them, assess the projects, and provide customize solutions that work for each client and project
  - Our focus is return on investment (ROI) and life cycle analysis (LCA)
  - We facilitate charrettes that allow business, government and the community to find workable solutions to sustainability issues.
  - We can save you time, energy and money and accelerate your understanding of the application of sustainable business practices.
  - We are problem solvers.
- We have
    - Certified over 3 million square feet (SF) of homes Green
    - Commissioned over 1.5 million SF of commercial buildings
    - Certified over 30,000 acres of green communities
    - Over the last 3 years, \$16M in guaranteed energy performance contracting
  - We offer guaranteed energy savings which equals CO<sub>2</sub> reductions
  - Provide comprehensive renewable energy solutions from concept to completion
  - We offer comprehensive water conservation solutions that both potable and non potable water use, water and sewer costs, while restoring natural hydrology
  - We have completed greenhouse gas analysis and carbon offsets for the \$44 million Discovery *Project Earth*.



## What We Do

Based on your green, sustainability, conservation, marketing, or financial goals, we help you develop a program that efficiently and effectively gets you the results you need. We are experts in the areas of:

- Existing Building Assessments, Recommendations, and Implementation of Green Building Principles
- Energy Modeling, Analysis, and Commissioning
- Education and Training
- Life-Cycle Cost Assessments
- Strategy Plan Development
- High Performance Building Solutions
- 3rd party certification management—such as LEED, Green Globes, ICLEI
- On-Site Renewable Energy
- Green Building Consulting
- Sustainable Development

We begin every project with benchmarking – you cannot develop a successful program without first analyzing your situation. We then create plans that are customized to address our clients' specific objectives. Over

the last 15 years, we have worked with residential, commercial, and land development project teams to assess the project owner goals and find a green building or sustainable development solution that works specifically for them.

We understand the driving forces behind the green building movement. Regulations continue to demand greater resource conservation in the residential environment. Consumers are becoming better educated about the economic and health benefits of green building and as a result, are beginning to evaluate their builder on these criteria.

We bring a pragmatic and cost-conscious perspective to our meetings with builders. By understanding your green building strategy, we can craft a program that addresses your specific objectives and green building goals. Whether it lowering energy bills for your customers, purchasing the right products for the job, creating a healthier home or training your employees how to market and sell the benefits of green building, Trifecta can bring more knowledge and experience to the table than any other green building consultant.



## Federal Government Agencies and Military Installations

Conservation and National Security have prompted the federal government to seek energy efficiency as a core value in all activities. Our team has the experience to rapidly implement energy conservation strategies that achieve return on investment and life cycle cost analysis criteria. The Energy Policy Act of 2005, the Energy Independence and Security Act of 2007, and Executive Orders 13423 and 13514 provide the framework, benchmarks, and goals agencies need to achieve.

2015 goals include:

- Reduce energy intensity
- Reduce water use
- Increase use of renewable energy
- Reduce fossil fuel use
- Increase alternative fuel use

### *Government Services Provided:*

- Greenhouse Gas Baselines and reduction strategy implementation
- Existing Building Energy Audits, Usage Benchmarks, conservation strategies, implementation, and monitoring
- Water Use Audits for buildings and facilities that include benchmarks, conservation strategies, implementation and monitoring
- Renewable Energy Generation—Solar, Wind, Biofuels
- Retro and new construction commissioning
- USGBC LEED Certification
- Resource Energy Managers (REM)
- Comprehensive Green Building and Sustainability Training



## State and Local Government Involvement

Every state, region, and city faces unique challenges associated with aging infrastructure, tightening budgets, and the ability to sustainably manage growth. The American Recovery and Reinvestment Act (ARRA) offers unprecedented funding opportunities. Current Federal programs that guide the allocation of hundreds of millions of dollars of stimulus funding are creating opportunities to benchmarking and evaluation your current programs, develop conservation strategies and complete projects that best manage important resources such as tax revenue, shrinking budgets, and the environment.

Trifecta has developed an expertise in working with federal, local or county governments to access stimulus program dollars through a variety of established turn key programs. Whether you are trying to optimize Energy Efficiency and Conservation Block Grant (EECBG) allocations, Neighborhood Stabilization Program (NSP) funds, State Energy Program (SEP) funds, and/or Weatherization funds. We create conservation strategies that will reduce greenhouse gas emissions in all government operations resulting in meaningful savings and potential revenue. As part of the *Discovery Project*

*Earth* series, we completed complex greenhouse gas calculations for almost a dozen environmental experiments that ultimately allowed us to offset production cost through the purchase of carbon offsets. We have been at the leading edge of this movement and remain actively involved today.

### *Government Services Provided:*

- Return on Investment and funding optimization
- Greenhouse Gas Emission Inventories
- Benchmarking and Analysis of Energy use for Operations
- Develop Energy Efficiency and Conservation Strategies
- Develop Energy Efficient Policies and Codes



## Builder Programs

Trifecta is the leading certifier of green residential construction in Florida, having certified more than 3 million square feet of single family residences. We understand the driving forces behind the green building movement. Regulations continue to demand greater resource conservation in the residential environment. Consumers are becoming better educated about the economic and health benefits of green building and as a result, are beginning to evaluate their builder on these criteria.

We bring a pragmatic and cost-conscious perspective to our meetings with builders. By understanding your green building strategy, we can craft a program that addresses your specific objectives and green building goals. Whether it lowering energy bills for your customers, purchasing the right products for the job, creating a healthier home or training your employees how to market and sell the benefits of green building, Trifecta can bring more knowledge and experience to the table than any other green building consultant.

### *Residential Services Provided:*

- Detailed assessments of existing green building practices
- Analysis and development of the most cost-effective means to achieve green certification
- Energy-optimization strategies to help clients save money
- Product and service recommendations to help achieve green certifications
- Engaging training programs to help the team market green features and benefits to consumers
- Marketing and public relations strategies to help create market awareness of the green building achievements



## Developer Programs

Planning a new development can be one of the greatest challenges any developer can embark upon. Understanding the regulatory environment as well as community perspectives is critical to gaining the necessary approvals. We have developed the ability to work with you, your project team, regulatory agencies, and the community, to get projects up and running in a timely manner. We understand that in this segment of the business, time is money.

Our experience spans more than 300,000 acres of land development projects across a wide range of jurisdictions. We have been at the table with some of the largest and most respected names in the land development industry and have strong, productive relationships with organizations such as the Urban Land Institute which can bring important credibility to the land development process. Preserving natural resources is key to successful development approvals, and Trifecta can help you accomplish this in a timely and cost-effective manner.

### *Development Services Provided:*

- Create sustainable master plan development concepts to meet regulatory and community demands
- Develop innovative solutions to address challenging sustainability requirements imposed by elected officials, government agencies and non-government organizations.
- Evaluate land development scenarios based upon life cycle and return on investment criteria
- Plan and execute community meetings to introduce, educate and inform the community about your development, along with formulating and facilitating community planning charrettes.
- Work with the media to achieve balance reporting about your proposed community.



## Commercial Builder Programs

Trifecta has extensive knowledge and expertise in the commercial construction arena, having certified approximately one million square feet of commercial buildings. Again, negotiating through the myriad of rules, regulations and approvals can be costly and time consuming for inexperienced practitioners. But this is where Trifecta excels. Every square **foot of commercial construction we've certified has taught us valuable** lessons about how to successfully accomplish the owners and builders goals quickly and efficiently. Not all green programs or buildings are alike, and we **use this understanding to tailor a building program that meets our client's goals and objectives.** Whether it's developing a comprehensive green construction protocol, identifying the right building products for the job, monitoring progress or walking the project through the certification process, Trifecta has the capabilities to make the job run smoothly and garner our clients the added reputational benefits of being an earth-friendly company.

### *Commercial Services Provided:*

- Deep and relevant subject matter expertise to expedite certification approvals
- Development of business and consumer strategies to help achieve green certifications
- Process management from conceptual design through occupancy and certification
- Organization, facilitation and analysis of project charrettes
- Thorough cost analysis to effectively evaluate green product and service options
- Management of all documentation and submittals for LEED Certification



## Energy Conservation

Trifecta has worked with projects as small as Habitat homes to large military installations. Energy conservation is a top priority for the average consumer and is being driven from the top down via Executive Orders such as 13514 and 13423. As such, Trifecta has works with clients to develop comprehensive energy reduction strategies. In doing so, our team has found that many relate energy to electricity. Although this is true, energy also relates to transportation, processing solid waste, and pumping and purifying our water supply. Local Governments, businesses, and community members all have endless opportunities reduce energy consumption. All too often, however, conservation is disregarded in lieu of new renewable or alternative energy producers. We have found the highest return in investment is the energy not used to begin with (referred to as the negawatt). As mentioned previously, energy is used in almost all of our daily activities. For example, the energy associated with the withdrawal, treatment, and distribution, of potable water and the collection and treatment of wastewater approaches the equivalent of 5 gallons of gas per person per day (186 kWh). Indeed, water conservation can save two key resources.

### *New Energy Resources:*

New energy resources are a balance of budget. Our goal is to optimize conservation and then pursue alternative energy options. Trifecta has worked on alternative energy projects that include, solar (photovoltaic systems), a Renewable Energy Demonstration project that compares several photovoltaic systems, invertors, and tracking systems for efficiency. Our team has also worked on the generation of bio-fuels from algae, vertical axis wind turbines, and gas vitrification, generating power from municipal solid waste .



## Dr. Jennifer Languell, President/CEO



For more than 15 years, Dr. Jennifer Languell has championed the integration of green building principles and sustainable design within the construction industry. Today, as Founder and President of Trifecta Construction Solutions, she remains an outspoken advocate and valued consultant to a wide range of industries that are incorporating sustainable business practices into their daily operations.

As environmental policy and growing consumer demand raise expectations for energy efficiency, resource conservation and healthier building environments, Dr. Languell continues to help her clients integrate innovative and intelligent business solutions into their operations. She utilizes a systems approach to creating high performance, healthy, sustainable projects that balance investment with financial return.

As one of this country's preeminent sustainability consultants, she is called upon by leading builders and developers to help them develop strategies to create healthier, more efficient and sustainable projects. Her work has included the creation of award-winning single-family and multi-family residential homes, commercial projects, and some of the largest and most sustainable land developments in the world. She has also become a trusted consultant to governments and municipalities that are rapidly moving toward

more sustainable and fiscally prudent operating and management practices.

For her work, Dr. Languell and Trifecta have received numerous awards from government and industry organizations such as the Urban Land Institute, National Association of Home Builders, Center for Sustainable Florida, and the Florida Green Building Coalition. Her knowledge and leadership in the area of sustainability have made her a sought after subject matter expert for the media in outlets such as **BusinessWeek, CNN Headline News, HGTV and CNBC**. An award-winning author, Dr. Languell was also selected as a technical advisor and star for the Discovery Channel's environmental series **Discovery Project Earth**.

Dr. Languell serves in leadership roles with many non-profit organizations that are involved with green building and sustainability. She currently serves on the National Governors Association Policy Academy on Advanced Energy Strategies for Buildings and as Immediate Past President/Vice President of the Florida Green Building Coalition. She is a LEED Accredited Professional for the USGBC, a Class 1 Certified Energy Rater, a NAHB Verifier and Certified Green Professional, and a Certifying Agent with the Florida Green Building Coalition. During her career, she has certified over five million square feet of buildings and 30,000 acres of land developments using programs such as LEED, FGBC and Green Globes.



## Slough Preserve Visitor Center Fort Myers, Florida

*Partial List of Green Projects*

Client Lee County, Parker-Mudgett-Smith, Gates Construction



### Description

The Friend of Six Mile Cypress Slough Preserve Project began with the Friend of Six Mile Cypress Non-Profit and their desire to create an education and information center as a trailhead to the Slough. Lee County eventually took over the project with a strong desire to preserve the education, demonstration, and information intent of the facility as well as provide office space for County staff. The project was a labor of love and included Parker Mudgett Smith Architects, Gates Construction, and Lee County. The project is a 11,000-square-foot Interpretive Center and the project is **Lee County Parks & Recreation's first certified green building.**

### Services

- 1st USGBC LEED certified building in Lee County
- Community and project team Charrettes
- LEED Administration and Guidance for Design and Construction
- Documentation Control
- Design Credit Submittal Finalization
- LEED Certification Submittal
- LEED Commissioning



## Children's Museum of Naples Naples, Florida

Client



### Description

The Children's Museum of Naples (C'mon) will be Collier County's first cultural institution devoted to children. C'mon is scheduled to open in 2008. Featuring ten exhibit galleries in 25,000 sq. ft. of spectacularly designed, child-scaled environments that invite children's sensory environments and intellectual exploration; C'mon will be the first Children's Museum to fully incorporate sustainable design features in Florida and the Southeast. C'mon is aiming for certification through the U.S. Green Building Council's LEED program.

### Services

- Project team Charrettes
- LEED Administration and Guidance for Design and Construction
- Documentation Control
- Design Credit Submittal Finalization
- LEED Certification Submittal





## Votran -Volusia County Transportation

*Partial List of Green Projects*

Client



### Description

The Volusia County Council created Volusia County's public transportation system, called Votran, in 1975. Votran is a service of Volusia County Government. Votran provides transportation to all urban areas of the county with a fleet of 55 revenue-producing fixed route buses, four trackless trolleys and 44 paratransit vehicles. With stimulus money granted, Votran is seeking to reduce operating costs at selected facilities on site.

### Services

- Sustainability Assessment
- Energy Audit of facilities
- Energy Performance Optimization of facilities
- Life Cycle Cost Analysis
- Selection of Materials
- Specifications and Bid Process



## Six Mile Corporate Park Building Fort Myers, Florida

Client



### Description

Six Mile Corporate Park is a development located on Six Mile Cypress Parkway in Fort Myers, Florida. It is a 8.09-acre corporate office park midway between Colonial Boulevard and Daniels Parkway. The centerpiece of Six Mile Corporate Park is the classic-design two story office building of 47,358 square feet which Florida Lifestyle Homes has decided to Certify Green through Green Globes.

### Services

- Project Assessment for Certification Potential
- Design and Construction Recommendations
- Energy Target Finder
- Portfolio Manager
- Documentation and Submittal

WINNER—2009 Summit Awards

Best Commercial Project: *Six Mile Corporate Park - Energy Efficiency & Environmentally Friendly Design*





## Waterset Tampa, Florida

*Partial List of Green Projects*

Client

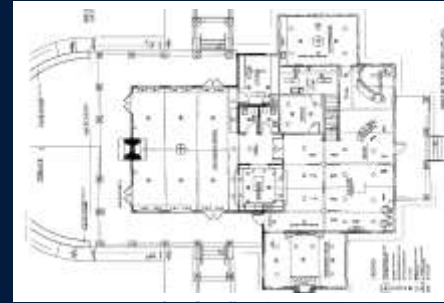


Description

A community that features special gathering places where one can go at any given time and see familiar faces. Places of recreation, culture, education, commerce, and entertainment—all serving as ports of entry for residents, newcomers, and visitors. This community has been Certified as a Green Development by the Florida Green Building Coalition

Services

- Project Assessment for Certification Potential
- Design and Construction Recommendations
- Project and Construction Team Training
- Documentation and Certification Submittal



## Waterset Discovery Center Tampa, Florida

Client



Description

The Discovery Center is the information and activity hub of the Waterset community. The building features key green technologies that will be used for educating the community about green building.

Services

- USGBC LEED NC Certification
- Project Assessment for Certification Potential
- Charrette Facilitation
- Design and Construction Recommendations
- Project and Construction Team Training
- Documentation and Certification Submittal





## Babcock Ranch Lee and Charlotte County, Florida

*Partial List of Green Projects*

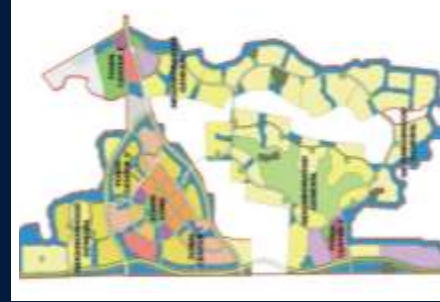
Client  

### Description

Spanning both Lee and Charlotte counties, the ranch is over 91,000 acre of which 73,000 acres have been placed into permanent conservation. The planned sustainable, green community is the first city planned to be powered by the sun. **The majority of the community's electrical needs will be generated from the largest on site solar photovoltaic energy facility powering any city on earth.** The 17,000 acre community is designed based on conservation and as such will consume less kilowatt hours than traditional designs. The property will be the first in the world to be powered by clean, renewable solar energy.

### Services

- Public charrette facilitation and develop resulting 75 key planning strategies
- Lead design and engineering teams through conservation based development design process
- Evaluation, tracking, and documentation for Florida Green Building Coalition Green Development Designation
- Energy analysis of total 25 year project build out
- DRI Q29 (energy) and Q17 (water)
- Benchmark and optimize energy conservation, water conservation and greenhouse gas emissions
- Settlement negotiations



## Town of Big Cypress Collier County, Florida

Client 

### Description

Collier Enterprises is creating the Town of Big Cypress, a new kind of sustainable living in eastern Collier County. The heart of Big Cypress will be its town center, where residents and visitors will be able to walk to outdoor cafes and restaurants, ride bicycles to neighborhood parks, or shop for fresh produce at a neighborhood farmer's market. Big Cypress will offer a variety of attractive residential neighborhoods, interconnected by a network of trails, parks and preserves, and surrounded by vast expanses of green - historic farms and ranches and scenic natural land to explore. The land spans over 13,000 acres, 2,800 proposed for the Town of Big Cypress, remaining land will be preserves.

### Services

- Project Team and Community Workshops and Seminars.
- Lead and educate design teams through low impact development and conservation based development design process
- Evaluation, tracking, and documentation for Florida Green Building Coalition Green Development Designation
- Water use budget calculations resulted in \$4 million in savings on proposed water treatment plant
- DRI submittal preparation focused on Question 29 –Energy and Question 17-Water
- Corporate Benchmark
- Coordinate Recycling Program and Initiatives





## Exploration Pointe Palm Beach County, Florida

*Partial List of Green Projects*

Client



### Description

Exploration Pointe is a carefully planned mixed-use community designed by a world-class team and Tech Village Partners to be a place where residents can live, work, learn and play all in one special place. As a low-commute community where parents can spend time with children instead of in traffic, Exploration Pointe will be a sustainable community with easy access to schools, workplaces, shopping, nature and the best of life. This community has been Certified as a Green Development by the Florida Green Building Coalition.

### Services

- Project Assessment for Certification Potential
- Charrette Facilitation
- Design and Construction Recommendations
- Project and Construction Team Training
- Documentation and Certification Submittal



## The Fountains Lee County, Florida

Client SouthStar Development Partners

### Description

The Fountains DRI is a 2,769 acre large-scale multi-use development designed as a new Town Center District for Lee County. The property is adjacent to Lehigh Acres on the north, Gateway DRI on the west and the Southwest Florida International Airport on the southwest. The Master Plan provides for an Urban Town Center supported by residential, commercial, office, medical, public, industrial warehouse/ distribution and hotel resort uses. The Master Plan provides a hierarchy and variety of open space and recreation areas divided into four major categories: Preservation Areas, Community Parks and Open Space, Neighborhood Parks and Lakes and Navigable Waterways. This community has been Certified as a Green Development by the Florida Green Building Coalition.

### Services

- Project Assessment for Certification Potential
- Charrette Facilitation
- Design and Construction Recommendations
- Project and Construction Team Training
- Documentation and Certification Submittal



[www.TrifectaConstruction.com](http://www.TrifectaConstruction.com)

239.278.3175

Certified Woman Owned, Small Business



## Village at Gulfstream Park Hallandale Beach, Florida

Partial List of Green Projects



### Description

The Village at Gulfstream Park – the first lifestyle center in the country built in conjunction with a state-of-the-art thoroughbred horse racing facility. Gulfstream Park, a legendary sports venue, is being reborn as an unrivaled shopping, dining and entertainment experience for the residents and visitors of Hallandale Beach, Florida. Phase I is underway and combines upscale fashion and home accessory shops with signature restaurants, outdoor cafés and future residential spaces. With 70 stores covering 410,000 square feet of highly-sought retail space,

### Services

- Sustainability training for design team
- Sustainability team leader
- Sustainable Land Development Consulting
- Benchmark conceptual design for compliance with the Florida Green Building Coalition Green Development Designation
- Energy analysis, projections and negotiation for green power purchasing
- Design Development and Construction Document Green-line



## Verandah Fort Myers, Florida

### Development

Client: The Bonita Bay Group 

### Description

1,456 acres with nearly 70 percent of the community is devoted to open space.

### Services

- 1st Certified Green Community in Florida
- Corporate Culture Sustainability
- Project Team and Community— Workshops and Seminars.
- Lead and educate design teams through low impact development and conservation based development design process
- Evaluation, tracking, and documentation for Florida Green Building Coalition Green Development Designation
- Ongoing community education
- Sales training and information center design

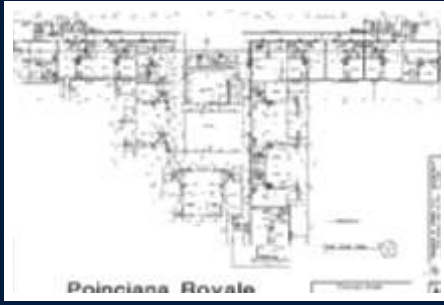
### Homes

Client: Preferred Builders (9 for community) *Arthur Rutenberg Homes, Lyons Housing & ARBC, Centex, Daniel Wayne Homes, Florida Lifestyle Homes, Gulfstream Homes, Keevan Homes, Welch Custom Homes, Wyman Stokes Builders*

### Services

- Green Home Construction builder training
- Design review
- Energy analysis and optimization
- Green package development
- Green home baseline, documentation and certification





## Poinciana Royale Key West, Florida

*Partial List of Green Projects*

Client



Description

Reliance Housing Foundation, Inc. is a 501(c)(3) nonprofit housing development organization organized in the state of Florida. Their mission is to provide fit, safe and affordable housing for low and moderate income people. The three-story apartment building at Poinciana Plaza on Duck Avenue is reserved for low-income HIV/AIDS residents who now live in isolated efficiencies or one-bedroom apartments not under the management of AIDS Help Inc. Each individual apartment unit is looking to achieve a Gold rating for Green Home Certification through the Florida Green Building Coalition along with being Energy Star Certified.

Services

- Project Assessment for Certification Potential
- Energy audit and optimization
- Design and Construction Recommendations
- Project and Construction Team Training
- Documentation and Certification Submittal



## Sony Electronics Inc. Fort Myers, Florida

Client Sumerian Capitol,



Description

In working with Sumerian Capitol and CB Richard Ellis we helped guide in the Retrofit and Green Certification on the Sony Building located in Fort Myers, Florida, with a focus on energy reduction and return on investment of renovations and building improvements.

Services

- Project Assessment for Certification Potential
- Energy audit and optimization
- Design and Construction Recommendations



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## Bay Pines Saint Petersburg, Florida

Partial List of Green Projects

Client **Kitson&Partners**

### Description

Located in the City of Seminole, Pinellas County at the crossroads of three major Pinellas County arteries – Bay Pines Boulevard (US-19), Seminole Boulevard, and Tom Stuart Causeway, this prime 60 acre infill site is planned for a variety of retail, residential, medical, and hotel uses.

Bay Pines offers excellent visibility and frontage, surrounded by mature communities and a dense population base, and is located across the street from the Bay Pines VA Healthcare Complex.

Kitson and Partners will be seeking Green Development Certification through the Florida Green Building Coalition

### Services

- Project Assessment for Certification Potential
- Design and Construction Recommendations
- Project Team Training



## Conceptual Development Key West, Florida

Client City of Key West

### Description

Create a conceptual site plan for a 6.6 acre development in Key West, Florida.





## Zero Energy Home Treasure Island, Florida

*Partial List of Green Projects*

### Client

Jeffery M. Wolf and Cynthia Faulhaber



### Description

Custom home, at owners request, to be net zero energy. The home was optimized first for efficiency with both the building envelope and equipment and then 14kW of **Photovoltaic panels are installed to service the home's energy needs.**

### Services

- Project Team Training
- Project System Design and cost analysis
- Selection of materials environmental impact analysis
- Green Building Project Management
- WaterStar Certified
- 100% LED lighting
- Green Home Certification, field documentation, blower door test (HERS Index = -9)



## The Momed Tampa, Florida

### Client



### Description

Builder desired to achieve the \$2,000 Federal Tax Credit for affordable housing in downtown Tampa, Florida. The project site was located in the infill area of Ybor City. The builder was willing to modify their standard construction techniques to achieve optimal energy performance. Upon pricing the alternatives the builder was able to achieve a 12% cost savings and the Federal Tax credit.

### Services

- Energy Model of home
- Optimization of energy performance—analysis included CMU, stick frame, SIPs, and ICF for most cost effective alternative
- Return on investment calculations, field documentation
- Midpoint Duct Test
- Thermal Bypass Inspection
- Blower Door Test (HERS Index 55)
- Green Home Certification





## Lakewood Ranch Manatee County, Florida

### Partial List of Green Projects

Client  **SCHROEDER • MANATEE • RANCH INC.**

(Lakewood Ranch & Preferred Builders Morrison Bruce Williams Homes, Homes by Towne, John Cannon Homes, London Bay Homes, Anchor Builders)

### Description

In 2005 Lakewood Ranch began its built green initiative with Greenbrook East. The master planned community totals over 33,000 acres and the green development certification is ongoing as new neighborhoods are designed. Each home being built since 2005 is constructed and certified by the Florida Green Building Coalition.

### Services

- Education and training for Sales staff at information center.
- Community outreach, education and training
- Builder, contractor, and subcontractor pre-bid and toolbox trainings
- Develop and manage builder incentive programs
- Manage development wide builder certification process
- Green design of Information and Sales center including green building display room
- Home plan design review, Energy analysis and optimization
- Green package development for individual preferred builders
- Green home baseline, documentation and certification



## William Ryan Homes Tampa and Orlando Area, Florida

Client 

### Description

Develop and implement Green Home program, certification, education, training, and marketing strategy. Communities: Bridgewater, Camellia Estates, Grand Hampton, Kingsway

### Services

- Sales and realtor training
- Plan analysis, energy optimization, cost analysis and feature benefit overview
- Energy performance calculations for incentive programs
- Midpoint, thermal bypass, and blower door tests
- Documentation and Submittals for green home certification
- Marketing and promotion





## Habitat For Humanity Dunedin, Florida

*Partial List of Green Projects*



### Description

Habitat for Humanity, Pinellas County will build an infill development with a total of 19 units. The project is located on an infill site and is redevelopment. Habitat received a grant from Home Depot to pursue the US Green Building Council's Leadership in Energy and Environmental Design Home Certification. The community in Pinellas County is called Shady Grove.

### Services

- Green Building Charrette
- Green Home Baseline
- Design team green project leader
- Energy analysis and optimization
- Midpoint Duct Test
- Thermal Bypass Inspection
- Blower Door Test
- Field Inspections and Green Home Certification



BEFORE



AFTER

## Affordable Home Retrofits Fort Myers, Florida

Client City of Fort Myers



### Description

Work with the City of Fort Myers on both the Neighborhood Stabilization Program (NSP) and Energy Efficiency Conservation Block Grant Programs (EECBG) programs to improve the current energy performance of affordable homes as well as acquire foreclosures, improve efficiency of future affordable homes.

### Services

- Pre Bid contractor training
- Energy Efficiency Program Development
- Field inspections and initial measurements
- Build Energy Model, benchmark, and optimization
- Bid option packages
- Determine return on investment
- Midpoint, thermal bypass, and blower door tests for Energy Star and Green Certification
- Greenhouse Gas Reduction analysis

Environmental Impact Summary			
1002 Rose			
	Existing Home	Proposed Remodel	Environmental Benefit
Annual Energy Use	14,364 kWh	7,704 kWh	6,660 kWh saved
SO <sub>2</sub>	57.05 lbs	30.59 lbs	26.46 lbs
NO <sub>x</sub>	33.51 lbs	17.97 lbs	15.75 lbs
CO <sub>2</sub>	9.68 tons	5.19 tons	4.49 tons





## Discovery Project Earth

Partial List of Green Projects

Client Discovery Channel



### Description

The coolest job on earth—and not because it was  $-40^{\circ}\text{F}$  in Greenland but because our team worked with the WORLDS top scientists on Global Climate Change. If our thirst for technology has put the planet in peril perhaps ambitious environmental techno-solutions could save it. Follow some of the strangest and largest geo-engineering schemes ever planned in *Discovery Project Earth (Ways to Save the Planet in the UK)*

### Services

- Served as subject matter expert for proposed experiments to mitigate and reverse global warming
- “Task Force” Engineer
- Responsible for scientific content and project management to take laboratory experiments and scale them up to real world experiments
- \$44 Million Budget



## Terra Verde Umatilla, Florida

Client Weather Channel—Dr. Anna Marie

### Description

Green Home renovation with comprehensive education program for Greenovation<sup>TV</sup>

### Services

- Product research, recommendations, and selection
- Energy analysis and optimization
- Field inspections
- Media Events and promotion

<http://terraverdetv.com/>





## PBS

### Partial List of Green Projects

#### Client

Daytona PBS

#### Description

Love Greenwashing show to education consumers about the Green Truth

#### Services

- Product research
- Big Box Store B-Role
- Live call in show about green products



## Extreme Home Makeover

#### Client

ABC and Myddelton Park Builders

#### Description

Green Home Certification for Tallahassee Extreme Home Makeover

#### Services

- Round the clock field inspections
- Thermal Bypass Inspection





## Trifecta Construction Solutions

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