

FLIPPING THE SWITCH ON ENERGY

Metro Orlando is steadily becoming a hotbed for “clean tech” endeavors as businesses and non-profit entities engage in a variety of research and development projects aimed at deploying more cost-efficient, environmentally-friendly power.

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*Serving Orange, Seminole, Lake
and Osceola Counties and the City of Orlando*

CLEAN TECHNOLOGY ADVANCING ENERGY ALTERNATIVES



REGIONAL INDUSTRY LEADERS

BLUE EARTH SOLUTIONS blueearthsolutions.com

Recycles styrofoam using safe, biodegradable chemical. Patent applications for technologies used to protect large tires from punctures, eliminate odors from dumpsters and diaper pails, among others.

FLORIDA SOLAR ENERGY CENTER fsec.ucf.edu/en

Housed in one of the most energy efficient buildings in the world; focuses on solar-thermal to produce hot water; photovoltaic (PV) cells, solar energy converted into electricity via silicon panels; and hydrogen fuel cells split into protons and electrons to form electrical current.

GREEN SKIES greenskies.com

Consulting firm specializing in aviation-related environmental initiatives aimed at making the aviation industry more environmentally responsible.

HYDROMATIC TECHNOLOGIES CORP. dryermiser.com

Industry leader in developing superior and innovative clothes drying technologies.

NSOLGEL nanoholdings.com

Commercializing technology utilizing sol-gel chemical processes that emit zero greenhouse gasses in converting certain industrial waste products, such as fly ash, into a substitute for cement.

NEW GENERATION BIOFUELS newgenerationbiofuels.com

Commercializing second generation biofuel using a proprietary process in applications wherever diesel and distillate fuel oils are used today.

PETRA SOLAR petrasolar.com

Focuses on increasing efficiencies, significantly reducing the cost of installed solar electric systems through the introduction of innovative power electronics.

PLANAR ENERGY DEVICES planarenergy.com

Core technology will enable a new generation of lithium metal and lithium ion batteries that are safe, compact, and can be deployed in very flexible arrangements.

XENERGA xenerga.com

Biodiesel plant manufacturer; created a replicable five million gallon per year facility set up wherever feedstock exists; research and development on feedstock plantations, oil from algae, converting brown grease and creating a new wind turbine.



ACADEMIC STRENGTH

One of the nation's largest metropolitan research universities, the **University of Central Florida (UCF)** is located in Metro Orlando. UCF operates the renowned **Florida Solar Energy Center**, the country's leading renewable energy research center, which performs research in partnership with local industry. Strong community colleges and specialized higher education institutions offer additional curriculum to support the clean technology and sustainable fuels industry.



COMMUNITY ASSETS

- Orlando – named one of America's 12 "Solar Cities"
- Orange County Convention Center's one megawatt solar installation – largest in Florida and the southeast U.S.
- Florida's first hydrogen fuel powered vehicle demonstration site – serves Orlando International Airport and surrounding community
- Lake County, Florida – home to emerging biodiesel industry
- Destiny in Osceola County – poised to be America's First Eco-Sustainable Community