



ANNOUNCING THE
**KENNETH P. KSIONEK
COMMUNITY SOLAR FARM**
AT THE STANTON ENERGY CENTER



The new solar farm, producing 13 megawatts (MW) of green power, has joined OUC's family of innovative, sustainable solutions and is among the first to sit atop a closed byproduct landfill.



KENNETH P. KSIONEK COMMUNITY SOLAR FARM BY THE NUMBERS

37,544
SOLAR
PANELS

2,100
HOMES
POWERED

24
ACRES
OF LAND

539
TONS
OF STEEL

129 MPH
WIND
PROTECTION

OUC's Kenneth P. Ksionek Community Solar Farm is among the first in the nation to sit atop a byproduct landfill. Covering 24 acres at the Stanton Energy Center (SEC) in east Orlando, nearly 40,000 solar panels provide 13 megawatts (MW) of energy – enough to power 2,100 homes. The new farm doubles OUC's solar capacity, allowing both commercial and residential customers who own or rent to reap the benefits of solar power without the upfront costs and hassle of installing their own rooftop array.

TO SIGN UP, VISIT OUC.COM/COMMUNITYSOLAR.

THE MAN BEHIND THE *RELIABLE ONE* KENNETH P. KSIONEK – A POWERFUL LEGACY



After 32 years of service and a plethora of accomplishments, Ken Ksionek will retire as General Manager & CEO of the Orlando

Utilities Commission in February 2018. His expertise, leadership and devotion have made OUC one of the most forward-thinking utilities in the nation.

Passionate about reliability, sustainability and emerging technologies, Ksionek has successfully led OUC's efforts to be "The *Reliable One*" and "The *Sustainable One*," too.

OUC has ranked No. 1 in Electric Distribution Reliability in Florida

for 19 straight years compared to Florida investor-owned utilities, according to data submitted to the Florida Public Service Commission.

Under his tenure, SEC has evolved into the most fuel-diverse generation site in Florida with the addition of natural gas, landfill gas and two solar photovoltaic (PV) farms – most recently, a first-of-its-kind solar field atop a byproduct landfill. Ksionek has championed other innovative solar installations including Central Florida's first community solar farm, one of the nation's first floating solar arrays, and hands-on solar sculptures throughout OUC's service area to educate the community about renewable energy and make solar more visible.

He was the driving force behind an electric vehicle (EV) partnership with the City of Orlando, leading to the community being named one of the Top 10 Most EV-Ready cities in the United States.

Guiding the utility through four major hurricanes including Charley, Frances, Jean and Irma, Ksionek's steady hand ensured power was restored quickly and safely while keeping customers informed.

Additionally, through innovative customer-facing technology, smart grid upgrades, enhancements to sustainability and clean energy initiatives, Ksionek has elevated OUC's position on the national stage.

AN ARRAY OF INNOVATIVE SOLAR PROGRAMS



FLOATING SOLAR

In March 2017, OUC installed a floating array, a first of its kind in the Southeast. The 31.5 kilowatt (kW) facility has the ability to send up to 31,500 watts of electricity directly to the grid.



UTILITY SCALE

The 5.9-MW solar PV array at SEC generates enough renewable energy to power more than 600 homes and was the first solar farm in Orange County.



RESIDENTIAL ROOFTOP SOLAR

In addition to OUC's successful solar PV net metering, a new innovative solar aggregation program makes rooftop solar more affordable for our customers by leveraging economies of scale.



SOLAR SCULPTURES

Highly visible and decorative solar sculptures, which provide light and can recharge small electronic devices, can be found at seven locations throughout OUC's service territory.



COMMERCIAL ROOFTOP SOLAR

OUC has installed rooftop solar on our own buildings. We also help commercial customers, like the Orange County Convention Center, incorporate it into their facilities.



COMMUNITY SOLAR

In 2013, OUC developed Central Florida's first community solar farm at our Gardenia facility. The Kenneth P. Ksionek Community Solar Farm is the most recent addition to our solar family, generating 13 MW of clean energy.

OUC IS COMMITTED TO MAKING SOLAR AFFORDABLE AND ACCESSIBLE FOR ALL CUSTOMERS.

OUC is expanding solar options to brighten the future for clean, sustainable energy. To help meet our customers' growing needs, we're finding innovative ways to make solar an option for all kinds of situations.



LEARN MORE AT OUC.COM/SOLAR.

OUC'S STANTON ENERGY CENTER (SEC) IS THE MOST DIVERSE POWER GENERATION SITE IN THE STATE.

A diversified fuel portfolio has always been a priority for OUC. Having fuel flexibility enables us to move with the market, take advantage of lower fuel costs, and maintain affordable rates for our customers.

OUC'S COMMITMENT TO FUEL DIVERSITY HELPS KEEP COSTS LOW AND ALLOWED US TO REDUCE OUR FUEL RATE BY 9 PERCENT IN 2016.



UNITS A & B
NATURAL GAS
940 MW

ORANGE COUNTY
& HOLOPAW
LANDFILL GAS
47 MW



SOLAR
FARM I
6 MW



KENNETH P. KSIONEK
COMMUNITY
SOLAR FARM
13 MW

UNITS 1 & 2
COAL
940 MW



PRESERVING & PROTECTING THE ENVIRONMENT

OUC's generation fleet exceeds expectations when it comes to meeting air quality standards. In fact, the environment at SEC is so welcoming that it's a wildlife sanctuary where even endangered species thrive.

PROTECTING AVIAN WILDLIFE

With more than 66,000 distribution poles in OUC's service area, ensuring the safety of bird populations is a priority. Many build nests on power poles and structures, which increase risks for both the birds and our electric system.

Using computer modeling to track nesting locations and foraging behaviors of bald eagles, we work to minimize these risks by protecting the birds and improving safety and reliability for our customers.

As one of the first utilities in Florida to create an Avian Protection Plan, our environmental, engineering and electric distribution teams install protective coverings on conductors, transformers and poles to help protect these beautiful creatures.



REFORESTATION OF STANTON ENERGY CENTER

Almost two-thirds of the 3,280-acre SEC is dedicated to conservation. Earlier this year, OUC employees and volunteers began replanting sections where over time, trees have thinned due to storms and age. More than 14,000 longleaf pine trees have been meticulously selected to improve the habitat that supports a very successful colony of the endangered red cockaded woodpecker. In addition to improving the natural attributes of the site, the trees will recycle carbon dioxide from the air. We will measure and track how this process offsets CO2 emissions from the electric generating units to reduce our carbon footprint.



STANTON ALGAE RESEARCH DEVELOPMENT CONSORTIUM

U.S. Department of Energy Tours Algae Research at SEC

A team at SEC is expanding knowledge of renewable energy by developing technology that uses carbon dioxide to produce biofuel from algae growth. In May 2017, SEC demonstrated the technology through an "Algae Cultivation for Carbon Capture and Utilization" workshop. Nearly 100 visitors from across the nation, including guests from the U.S. Department of Energy, toured SEC and the algae test site. The benefits of algae growth for carbon utilization include alternative methods of carbon storage, faster production cycles for renewable fuels, and significant reductions in vehicular fossil fuel emissions.



DRIVING INNOVATION



With more than 775 vehicles – ranging from plug-in hybrids to bucket trucks – OUC's fleet logs more than 4.7 million miles annually. So, on the road to reducing our carbon footprint, we're using alternative fuels, purchasing more hybrids and even recycling automotive products to protect our environment.

We also helped Orlando become one of the most EV-ready cities in the nation by supporting the installation of more than 150 public and private charging stations. And, we keep on moving the needle by developing new incentives and services that help customers, and the greater community, adopt electric vehicles for their homes and businesses.

PLUGGING INTO FUEL EFFICIENCY

Embracing fuel-efficient technology as a commitment to green initiatives, OUC was the first municipal utility in Florida to acquire a plug-in hybrid that gets up to 99 mpg. Today, we have 6 all-electric cars in our fleet and 47 hybrid vehicles.

For our line technicians out in the field, we have four hybrid bucket trucks and one auxiliary battery system to operate the aerial tower hydraulics. Bucket trucks are a promising application for hybrid technology since much of the vehicle's work is done when stationary. The hybrid diesel-electric system allows the main engine to be turned off while crews operate entirely off the battery.

ADDING NEW FUELS TO THE MIX

As part of an overall plan to reduce emissions in OUC's fleet, we use B20 – a blend of 80 percent petroleum diesel and 20 percent biodiesel – a clean-burning alternative fuel made from new or used vegetable oils and animal fats, including recycled cooking grease. Compared to petroleum diesel, biodiesel produces lower emissions, which is better for the environment. B20 has been integrated seamlessly into our fueling system without any changes to vehicles or fuel storage and distribution equipment.

RESIDENTIAL EV REBATE AND COMMERCIAL EV CHARGING STATION SERVICE

OUC's Commercial Electric Vehicle Charging Service offers EV charging station solutions to commercial customers, for both fleet and workplace. We offer expertise and reliable service from start to finish. **Learn more at ouc.com/commercialev.**

OUC offers a \$200 residential EV rebate to customers who purchase or lease a plug-in electric vehicle. **Learn more at ouc.com/evsathome.**



SUSTAINABILITY AROUND TOWN

H2OUC HYDRATION STATIONS

OUC produces some of the purest, best-tasting water in the nation. Because we weave sustainability through all we do, we've partnered with the City of Orlando and placed H2OUC hydration stations throughout the city at our parks, community centers and neighborhood centers. The hydration stations provide residents with an easy way to refill reusable water bottles on the go, and help reduce the number of plastic bottles that end up in landfills.



UCF STUDENTS AND OUC TEAM UP TO DESIGN SOLAR SCULPTURES

OUC, the University of Central Florida (UCF) and Tavistock Group harnessed the creativity and ingenuity of some of the brightest minds in the area to design a new solar sculpture for Lake Nona's Laureate Park. A solar-powered sundial sculpture – created by a team of UCF undergraduate engineering, computer science and art students – was selected to be installed in 2018. The design incorporates sound engineering principles, such as strong wind resistance and sun exposure optimization, and conveys art concepts, such as reflections and shadows, to take outdoor elements into consideration. We are already shining a light on solar with seven sculptures around our service area, with an eighth to be added soon to Lynx's main terminal.



Pictured from left to right: Marie-Jo Gordo, UCF junior, studio art; Daniel Schutt, UCF sophomore, graphic design; Dominique Russell, UCF graduating senior, mechanical engineering; Peter Warren, UCF graduating senior, mechanical engineering.

HELPING CUSTOMERS BE SUSTAINABLE, TOO

From energy and water efficiency rebates designed to help residential and commercial customers save to conservation videos on our website that you can watch in minutes, OUC is dedicated to providing tips and tools to help reduce consumption.

Among the incentives we offer for making customers more efficient:

Energy Star® Heat Pump Water Heater	100% of cost up to \$500
Window Film and/or Solar Screen	\$0.55 per sq. ft.
Energy Star® Windows	\$1.50 per sq. ft.
Ceiling Insulation Upgrade	\$0.10/sq.ft.
Ultra Low Flow Toilet	\$50

Learn more at ouc.com/rebates.



OUC is helping customers shine brighter and smarter with industry-leading innovations such as *OUCooling* and *OUConvenient Lighting*. Introduced nearly 20 years ago, these services have been refined and enhanced as our customers' needs have evolved. Today, these customized solutions help businesses increase efficiency and reduce costs, while promoting sustainability.

COOLING THE HOTTEST NEW PLACES IN TOWN

Our innovative *OUCooling* central chilled water service operates independent districts with a combined subscribed capacity reaching nearly 50,000 tons and an annual energy production of more than 138 million ton-hours. Our newest chilled water customer, Steinmetz Hall at the Dr. Phillips Center for the Performing Arts, joins the Amway Center on a growing list of more than 40 facilities that rely on *OUCooling* to enhance air-conditioning efficiency and sustainability.

Learn more at ouc.com/oucooling.



CHANGING THE GAME IN LIGHTING

For years, *OUConvenient Lighting* has provided complete outdoor lighting services for a wide variety of commercial applications—from the legendary Camping World Stadium and UCF's Spectrum Stadium to industrial parks and residential developments. *OUConvenient Lighting* customizes service for each customer, allowing them to choose from dozens of fixture/pole combinations. The program creates financial advantages, too. Because we handle all up-front costs, developers can use the capital they would have spent on fixtures, poles, and related equipment for other expenditures.

Learn more at ouc.com/lighting.



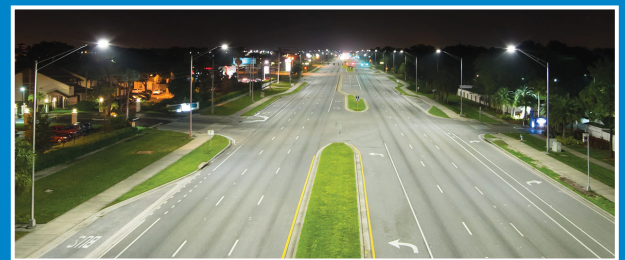
LED LIGHTING PROGRAM — SAVING ENERGY, INCREASING BRIGHTNESS

OUC has upgraded 41 percent of roadway streetlights to LED, which provides brighter, safer light that uses far less energy.

Before



After



LIGHTING BY THE NUMBERS

12,000 ORLANDO STREETLIGHTS REPLACED WITH 100-WATT-EQUIVALENT LED FIXTURES

\$600,000 ANNUAL SAVINGS FOR THE CITY

17 GIGAWATT-HOURS OF ANNUAL ENERGY SAVINGS (ENOUGH TO POWER ABOUT 1,500 HOMES)