



**GREEN WORKS
ORLANDO**





FOCUS AREA:
ENERGY AND GREEN BUILDINGS





"I am proud to support a vision of transitioning entirely to 100 percent clean and renewable energy in our City."

—MAYOR BUDDY DYER of Orlando, Florida



2017 results:

- \$1.5 million
- 78 projects
- 4 PACE providers

HOW CAN ORLANDO'S PACE PROGRAM



PACE PROGRAM

**HELP IMPROVE
YOUR HOME
AND BUSINESS?**



SolSmart GOLD designation

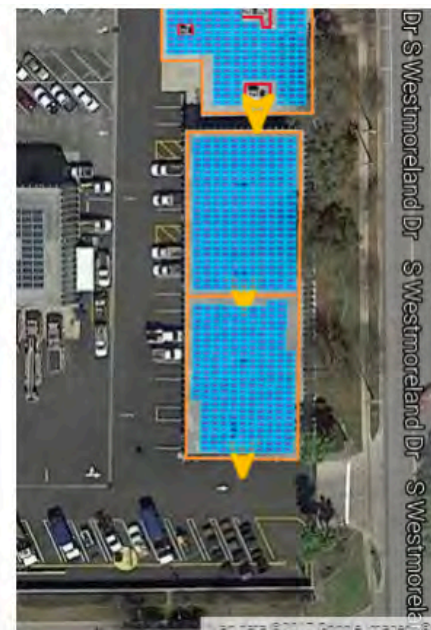
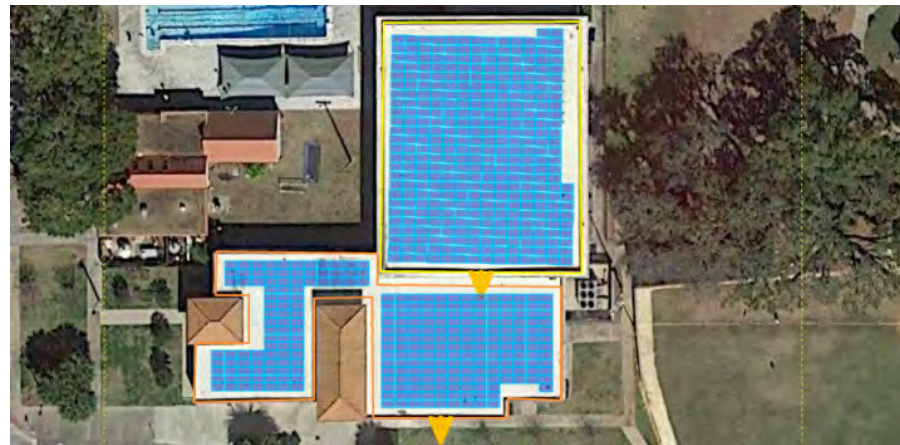
- U.S. DOE recognition program to help local governments reduce barriers to solar energy growth.
- Focuses on the “soft-costs” of solar
- Developed “Roadmap-to-Gold”
 - Planning / Permitting staff training
 - LDC definition of “Solar equipment”
 - Waive solar permit fees





Expanding On-site Solar PV

- Net-zero Permit & Records Building
- City Hall Solar R&D Platform
- 2+ MW of rooftop PV on City community centers, fire stations, OPD Headquarters, and more.
- 4 MW brownfield community solar farm
- 4MW+ solar farm at Iron Bridge WWTP



12 MW Community Solar Farm – Dec 2017





5.2 Megawatt solar energy procurement

- Orlando
City Hall
- Orlando
Police HQ
- 17 Fire
stations

Prevention of
5,912,000
pounds of coal from
being burned

Reduction of
12,216,000
pounds of CO2 emissions



NREL Solar Energy Innovation Network (SEIN)

- \$169,000 direct funding
- Selected as 1 of 10 cities nationwide for NREL SEIN
- Orlando team: City, UCF/FSEC, OUC
- Develop roadmap to 100% RE goals
 - Solar capacity projection
 - Load forecasting models
 - Network upgrades
 - Financing models
- Develop 'Solar Ready' design guidelines for new construction





NREL Solar PV Training for Cities & Communities

- Selected as 1-of-50 cities to train City/Utility staff on Solar PV deployment and operations/maintenance
- Training will include:
 - Framing your goals and team:
 - Site Identification and Screening
 - Project Validation and Permitting
 - Project Economics and Financing
 - PV RFPs





FOCUS AREA: **TRANSPORTATION**





EV-Ready Initiative

- 150+ EV charging stations in Orlando
- Drive Electric Orlando expansion
- Central Florida Clean Cities
- 15 new EV's for City Hall motor pool
- 4 EV Motorcycles for OPD

Next step: Deploying an additional 150 EV charging stations around City parks, facilities, and public spaces

- Pursuing VW Settlement funding





Central Florida Automated Vehicle Partnership





Central Florida Automated Vehicle Partnership





Lymmo Electric Bus Pilot



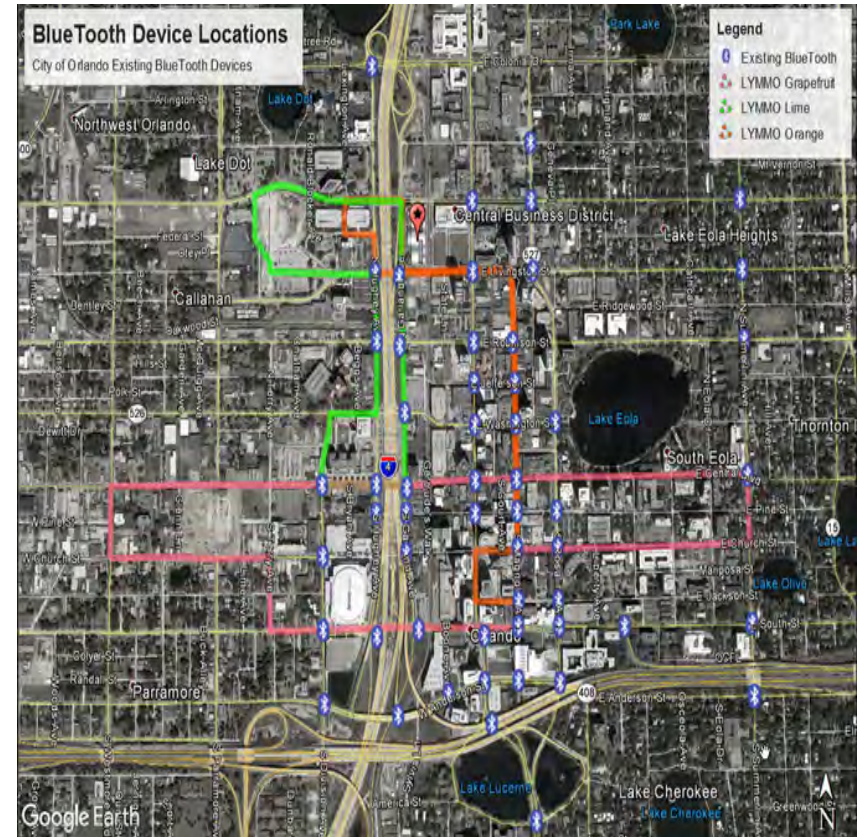
Regional USDOT Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) Grant Win

- **\$12 Million for Fall 2017 thru Fall 2020**
- Extensive Testing of Technologies on Main UCF Campus
- Eventual Deployments in the City of Orlando and Throughout the Metropolitan Area
- Areas of Focus
 - Public Transit
 - Bicycles & Pedestrians
 - Parking
 - Vehicle Autonomy
 - Intermodal Safety
 - Vehicle to Infrastructure and Vehicle to Vehicle Communications



USDOT Accelerated Innovation Deployment (AID) Grant for Safety & Efficiency

- **\$1 Million for 2018**
- Designated by FDOT as the Winner from the State of Florida
- Deployments/Improvements in Downtown Orlando
 - Phase 1 Bluetooth Readers (Existing/Match)
 - Phase 2 On Street Parking Sensors (Existing/Match)
 - Phase 3 Garage Entry Exit Sensors (Scheduled)
 - Phase 4 Connected Vehicle Technology - AID Funding
 - Phase 5 Automated Traffic Signal Performance Measures- AID Funding
 - Phase 6 Roadway improvements under development



Autonomous Vehicle Mobility Initiative (AVMI)

- **GOAL:** travel by autonomous vehicles makes up 10% of total urban, public transit travel by 2040.
- **Research and development** of autonomous transit vehicle technology using Lymmo lanes;
- **Design, building and testing** of autonomous transit vehicles infrastructure on exclusive and shared rights-of-way; and
- Development of **data and communication protocols** for all AVMI systems and infrastructure; and
- **Workforce development** strategies (retention, recruitment and training) to support AVMI; and



ONE COMMUNITY,
**COLLECTIVE
IMPACT**



Collective Impact Mission

- “We use the power of scale and the pursuit of excellence to **solve tomorrow’s greatest challenges** and to make a better future for our students and society. Through learning, discovery, and partnerships, we **transform lives and livelihoods.**”



Orlando's affordable housing crisis is about to implode

Posted By **Colin Wolf** on Thu, Mar 15, 2018 at 12:16 pm



Monivette Cordeiro

Back in December, Florida Gov. Rick Scott touted that **Orlando leads the state in job growth**, which is certainly something to be proud of. But Orlando doesn't have a job shortage – it has a shortage of well-paying jobs and places for these people to live.

According to the **National Low Income Housing Coalition's** annual report, the Orlando-Kissimmee-Sanford area currently ties for second worst in the country for available affordable housing, offering only 17 available and affordable units per 100 renters.

<https://www.orlandoweekly.com/Blogs/archives/2018/03/15/orlandos-affordable-housing-crisis-is-about-to-implode>

America's Affordable Housing Crisis Is Driving Its Homelessness Crisis

There's a clear link between a lack of places to live and the number of people sleeping out of doors at night. And the solution is clear, too: Cities need to double down not just on homeless services, but on building more affordable housing, and quickly.



[Photo: Justin Sullivan/Getty Images]

<https://www.fastcompany.com/40504605/americas-affordable-housing-crisis-is-driving-its-homelessness-crisis>

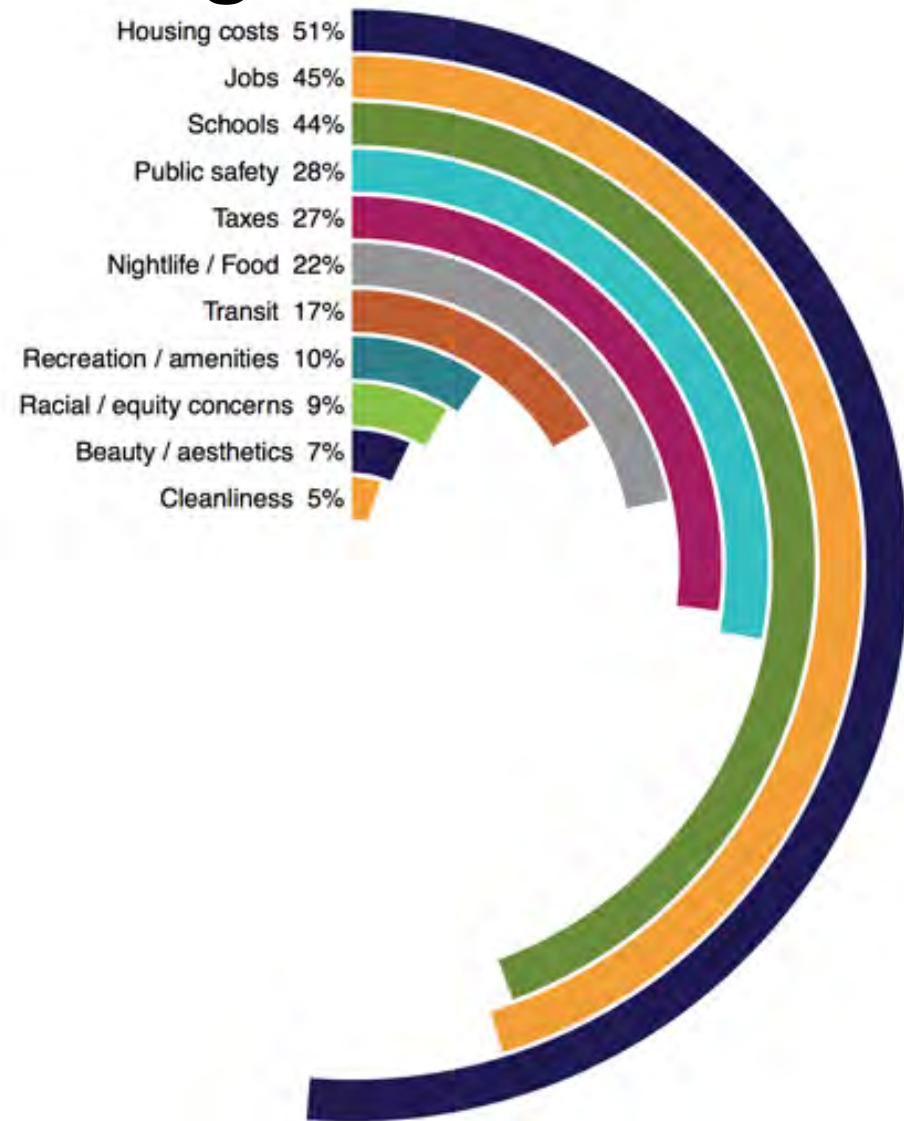
FEBRUARY 20, 2018, 7:00 PM

Puerto Rican evacuees urged **Orange County** officials on Tuesday to back a state law that would protect affordable housing funds, just a month before FEMA hotel vouchers for nearly 1,000 displaced families are set to expire.

<http://www.orlandosentinel.com/news/breaking-news/os-orange-county-puerto-rican-evacuees-20180220-story.html>

Leaders of US Cities Worried about Lack of Affordable Housing

Over half cited house costs as top factor prompting residents to move away. Outpacing jobs, schools and public safety.

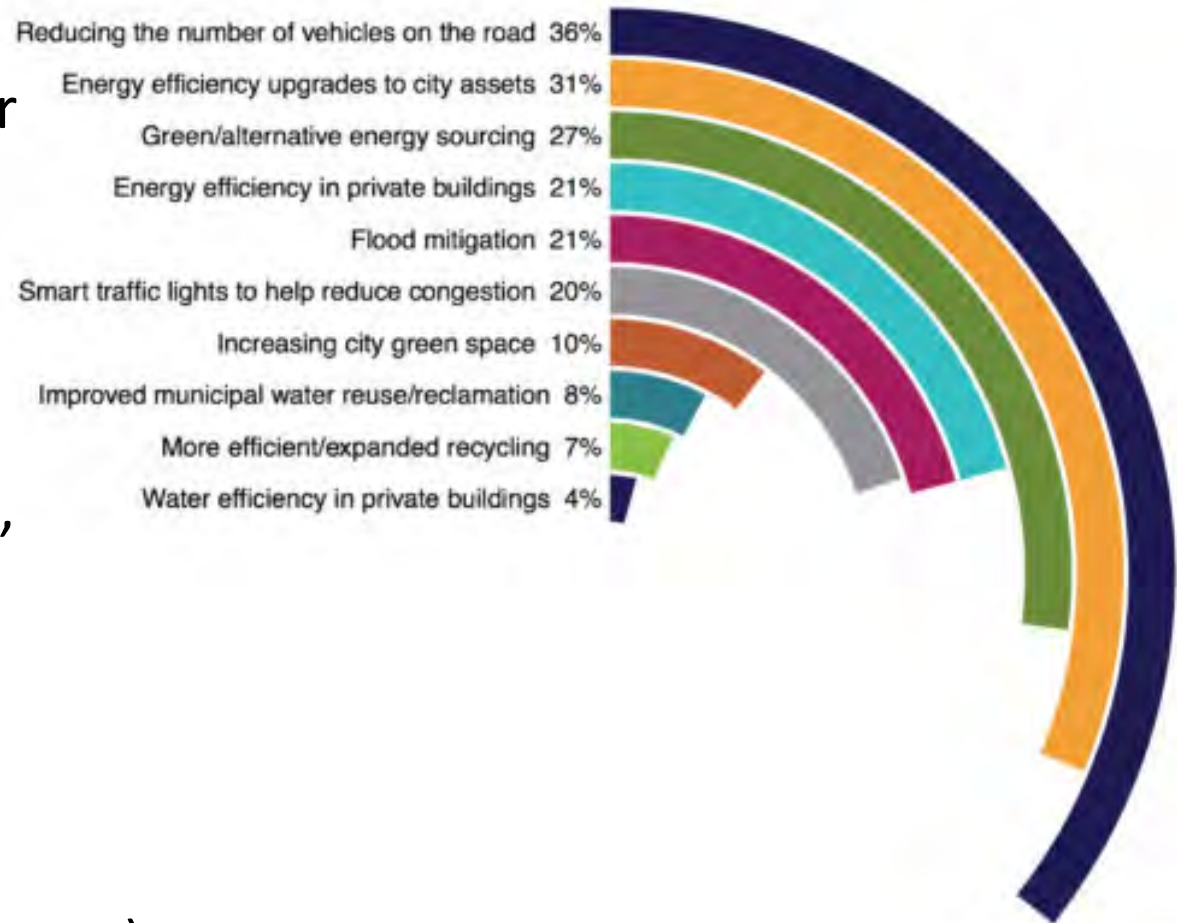


(115 mayors in 39 states)

Mayors propose steps cities could take to mitigate climate change

Top three were

- Reducing the number of vehicles on the roads,
- Energy-efficient upgrades, and
- Green, or alternative, energy sources



(115 mayors in 39 states)