

# City of Pensacola Renewable Energy Study



Presented by Mark Jackson,  
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# Evaluation Criteria

- **Technology Review:** Renewable Energy Technologies most suitable for Pensacola
- **Site Assessment:** Evaluate 39 sites, both rooftop, and ground-mount/carport
- **Energy Output & Financial Analysis:** Evaluate each site for annual energy production, CO2 savings, financial savings, upfront costs, & simple payback.
- **Solar Structural Review:** Evaluate potential solar arrays for City Buildings.
- **Desktop & Field Review:** Review building plans and collected information during field review.
- **Structural Assessment:** Provide an assessment for building with good ROI.

# Facilities Studied

- Airport
- East Pensacola Heights Clubhouse
- Fire Admin Building
- Fire Station 1
- Fire Station 2
- Fire Station 3
- Fire Station 4
- Fricker Community Center
- Osceola Club House
- Osceola Parking lot
- Osceola Golf Course (Ground-mount)
- Highland Terrace Park
- Housing Department
- Jefferson St Lot
- Jefferson St Garage
- Legion Field

- Theophalis May Resource Center
- Malcolm Youge Community Center
- Blue Wahoo's Stadium
- N Palafox Lot
- Pensacola Energy Operations Center
- Port Warehouse 8 (Campus for all the Port)
- Pensacola Police Department
- Fleet Garage (Campus for all the FSC)
- Roger Scott Athletic Complex
- Roger Scott Tennis Center
- Vickery Resource Center
- Sanders Beach Community Center
- Bayview Community Center

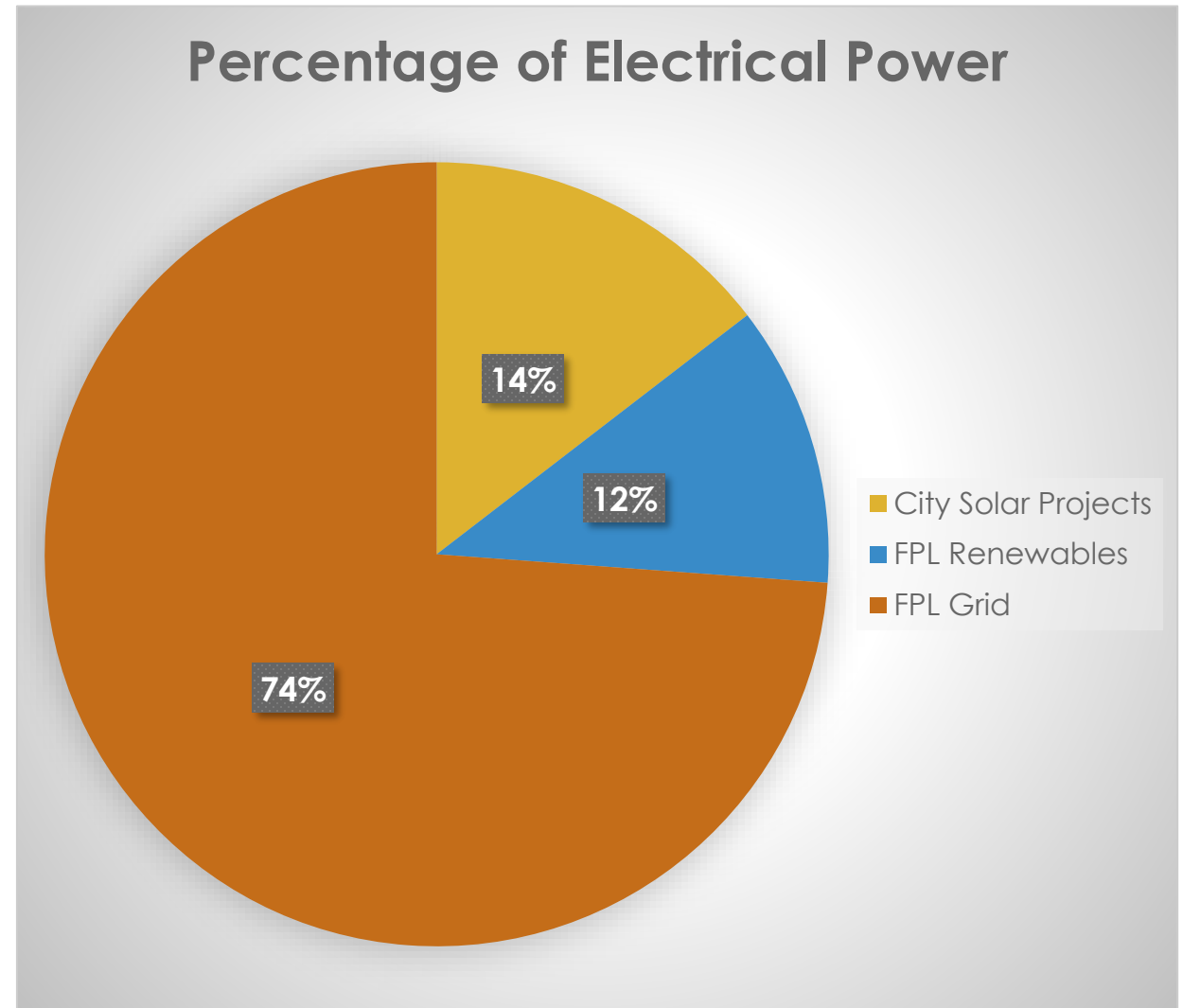
# Renewable Energy Output & ROI

Location	% Energy from Renewable	% Energy Towards Goal	Installation Cost	Yearly Savings	ROI
Fire Station 3	100%	0.35%	\$161,125.76	\$11,464.74	14.05
Port of Pensacola, Warehouse #8 Campus*	100%	7.67%	\$2,842,883.33	\$250,355.64	11.36
Fleet Garage Campus*	100%	3.32%	\$1,226,759.50	\$108,213.24	11.34
Vickrey Resource Center	100%	1.21%	\$443,244.98	\$39,398.40	11.3
Bayview Community Center	100%	0.38%	\$172,833.78	\$12,547.20	13.8
Osceola Golf Course (Ground-mount)	100%	1.63%	\$599,713.02	\$53,341.55	11.2
<b>Total</b>		<b>14.56%</b>	<b>\$5,446,560.38</b>		

\*Campus means that every building at that location will be powered by the solar project.

# Percentage of Renewable Energy

- City Solar Projects ~14%
- FPL Renewables ~12%\*
- FPL Grid ~74%\*
  
- Total Renewables ~26%
  
- With Energy Efficiency projects and FPL's new solar farms, we will see this increase to ~30% by 2030.



# Thank You!

## Questions?

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