

Solar Energy in Florida



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Solar Energy Technologies

- Solar Electric
- Solar Thermal
 - Residential Water Heating
 - Commercial Water Heating
 - Swimming Pool Heating



Photovoltaics (Solar Electric – PV)



Solar Water Heating



Solar Pool Heating



Benefits of Solar (ICLEI)

Solar energy is a proven alternative for fossil fuel based energy. There are many reasons to pursue solar in your community:

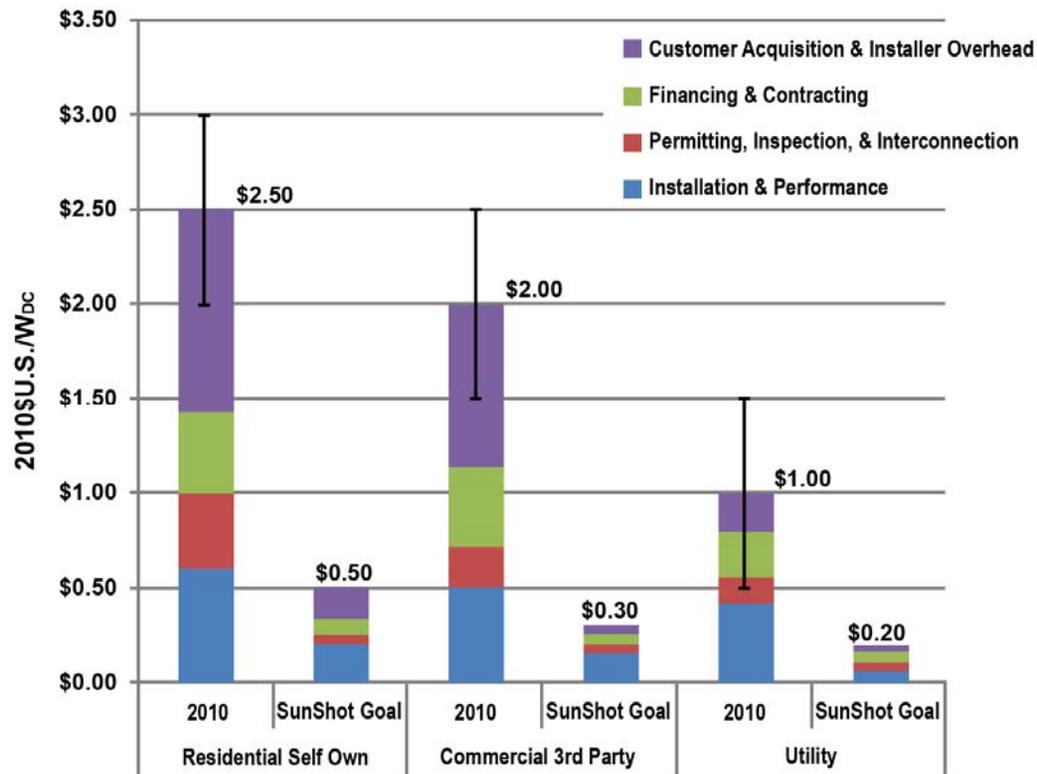
- Clean: The lifecycle greenhouse gas emissions of solar PV are twenty times less than those from coal-based energy and approximately 12 times less than emissions from natural gas-based energy.
- Accessible: The amount of energy received from sun in one hour is more than the energy used globally in one year. U.S. homeowners with proper solar access have the potential to produce the majority of their energy used with solar PV.
- Efficient: In a scarce water era, the amount of water used for energy production is an important consideration. Solar PV systems on average use no water, while coal-based energy requires between 364 to 1,438 gallons of water and natural gas-based energy requires 583 gallons.
- Resilient: Solar energy is a path for resilient future. Solar PV systems provide more reliable energy sources compared to conventional energy by producing more energy during peak use hours, withstanding extreme weather, and operating off-grid if needed.
- Economically viable: It is estimated that 9.1 million of the single-family homeowners in America's 50 largest cities are living in a city where solar energy cost is lower than their current energy rate.



icleiusa.org



SunShot Soft Costs Goal



Local Permit Procedures

Traditional Process

- Cumbersome requirements
- Jurisdictional variations
- Submittal and processing time
- Inspection time
- High permit fees

Express System

- Online and instantaneous
- Permit ready package



Public and Private Land Use Restrictions

- Local Ordinances
- Historic Preservation
- Landscape Controls
- Community Associations
 - Restrictive Covenants
 - Bylaws and Guidelines



Local Ordinances

- Local government zoning regulations, development orders and comprehensive plans can impact solar development
- Efforts have been made to create solar friendly and even solar ready local codes
- Go Solar Florida has produced a Best Practices document for adoption
- American Planning Association has developed an “Essential Info Packet” on Solar Energy



Community Associations

- Restrictive Covenants and Bylaws
 - Impose binding obligations on property owners
 - Can be enforced by association or other property owners
- Architectural Review Boards
 - Establish guidelines for property improvements
 - Review and approve applications



Solar Access Laws

- Solar Easements: protecting the ability of one property to continue to receive sunlight across property lines without obstruction from another property
- Solar Rights: protecting the ability to install solar energy systems on residential and commercial property that is subject to private restrictions as well as local government ordinances and building codes



Resources

- Go Solar Florida Planning and Zoning Best Management Practices
[www.broward.org/GoGreen/GoSOLAR/GoSOLARFlorida/Documents/Best Practices Solar Friendly Planning Zoning 2014.pdf](http://www.broward.org/GoGreen/GoSOLAR/GoSOLARFlorida/Documents/Best_Practices_Solar_Friendly_Planning_Zoning_2014.pdf)
- American Planning Association – Planning and Zoning for Solar Energy
<https://www.planning.org/pas/infopackets/eip30.htm>
- What Cities Should Do: A Guide to Resilient Power Planning
<https://www.cleangroup.org/wp-content/uploads/Resilient-Cities.pdf>
- Localizing the Paris Agreement: A Guide for Local Government Action in Support of the US Nationally Determined Contribution
<http://icleiusa.org/wp-content/uploads/2017/09/Localizing-the-Paris-Agreement-ICLEI-USA-2017.pdf>
- Bring Solar to Your Community: Themes Summaries, and Insights from 27 Case Studies
<https://icma.org/documents/bring-solar-your-community-themes-summaries-and-insights-27-case-studies>



Thank You!

Questions?

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