

# *Utility Net Metering*

## Challenges Needing Solutions



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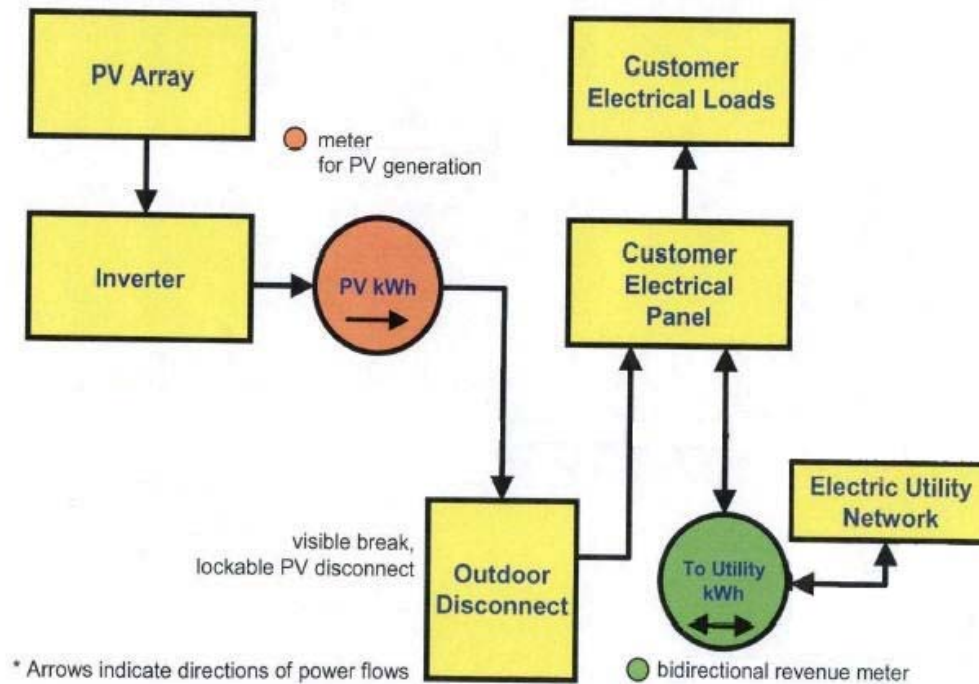
# Utility Net Metering

## Lakeland's History

- 1999 20 rooftop PV systems (utility test sites)
- 2003 First private residential net metered system
- 2007 Total of 5 customer-owned PV systems
- 2008 **PSC Rule 25-6.065** *Interconnection and Net Metering of Customer-Owned Renewable Generation*
- 2009 **FL Statute 366.91(6)** ...”each municipal electric utility and each rural electric cooperative... shall develop a standardized interconnection agreement and net metering program for customer-owned renewable generation...”
- 2015 Total: 116 net metered locations in Lakeland

# Utility Net Metering

## Net Purchase and Sale





# Utility Net Metering



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## Technical complications

- Multiple interconnections
- Solar assisted HVAC
- Battery storage (EPS vs. daily usage)
- Non-renewable generators
- Required permits
- Plug-in solar (120v)
- Smart meters

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## Other interconnection models:

- Retail wheeling
- IPP's (Independent power producers)
- Feed-In Tariff
- Community Solar

## Hybrid with other utility programs:

- Conjunctive billing
- TOU (Time of Use)
- Stand-By billing rates

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## Legal & Contractual Issues

- Real estate turnover
- Disclosures
- Buyer agreement
- Rental properties
- Crossing property lines
- Income tax reporting
- Equipment leasing



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## Conclusions:

- NEM is not one-dimensional
- Too many unwritten rules
- Unlimited mutations
- Policy-making is open to interpretation
- Not an objective discipline
- PSC rule and FL Statute do not provide clarity/guidance