



Clean Energy  
COLLECTIVE®



**Wright-Hennepin**  
Cooperative Electric Association  
A Touchstone Energy® Cooperative 

# Wright-Hennepin Electric Community Solar

*July 10, 2012*



# Local Community Solar Gardens





# How Does it Work?



As a utility customer, you can have solar panels in the CEC's community solar arrays produce power on your behalf. Every month, the utility will credit you on your electric bill for the power produced by your panels. Regardless of whether you rent or own your home or business, you can use local renewable energy to eliminate your electric bills. And you don't have to lift a finger- the Clean Energy Collective takes care of everything.



# Who Can Do It?



- Individual Residences
- Townhomes and Condominiums
- Homeowners Associations
- Residential landlords and tenants
- Owners or renters
- **If you have a residential electric bill, you can have solar!**



# Solar Power's Obstacles



*Numerous Challenges for Home/Business-based Solutions:*



|   |  |
|---|--|
| <b>High “one off”, small-scale pricing</b>  | <b>Managing suppliers and contractors</b>              |
| <b>Non-ideal locations: trees, home orientation, roof angle and design</b>                                | <b>Maintaining and cleaning system</b>                 |
| <b>Aesthetics: unwanted impact of roof mounting on appearance and historical preservation of property</b> | <b>Applying and filing for rebates and tax credits</b> |
| <b>Unavailability: no options for renters and building lessees</b>  | <b>Substantial minimum investment</b>                  |



# Community Solar Solutions



*The Clean Energy Collective's  
Managed Solution Ensures:*



|   |  |
|---|--|
| <b>Savings of scale by buying in bulk</b>                                   | <b>Available to renters, businesses, and homeowners alike</b>            |
| <b>Located and maintained for optimal production: 15% better production</b> | <b>Ownership moves with you and can be resold if needed</b>              |
| <b>Better credits per kWh on your electric bill for greater savings</b>     | <b>One-step purchasing with rebates and credits built into the price</b> |
| <b>System producing energy right away</b>                                   | <b>Affordable clean energy for everyone</b>                              |



# What is a Managed Solution?



- The CEC's solar arrays are **perfectly situated** for optimal sun capture and they are **consistently maintained** to maximize their production.
- Panels are cleaned when dirty, parts are repaired or replaced when broken to minimize downtime and ensure **the best performance**.
- **Optimizing your system's production maximizes the credit to your electric bill and turbo-charges your system's overall payback.**
- The CEC's Operations and Maintenance program is included:  
**No Extra Cost!**
- As a result, your system lasts longer, giving you even more benefit.
- A **50-year** equipment and maintenance warranty is included. That's **twice the lifetime** of a traditional system!





# Operations & Maintenance Program



- Like a savings account for the array, held in the array's name
- Trust account funded by:
  - \$0.30 of the initial price seeds the escrows (\$12,000)
  - 5% of ongoing power production
- Covers:
  - Replacement equipment costs and labor
  - Facility and site maintenance and monitoring
  - Insurance
  - Filings under manufacturer warranties
- Funds will pool over time, ensuring proper system maintenance and optimal production in later years of array's lifespan, long after manufacturer warranties have expired.

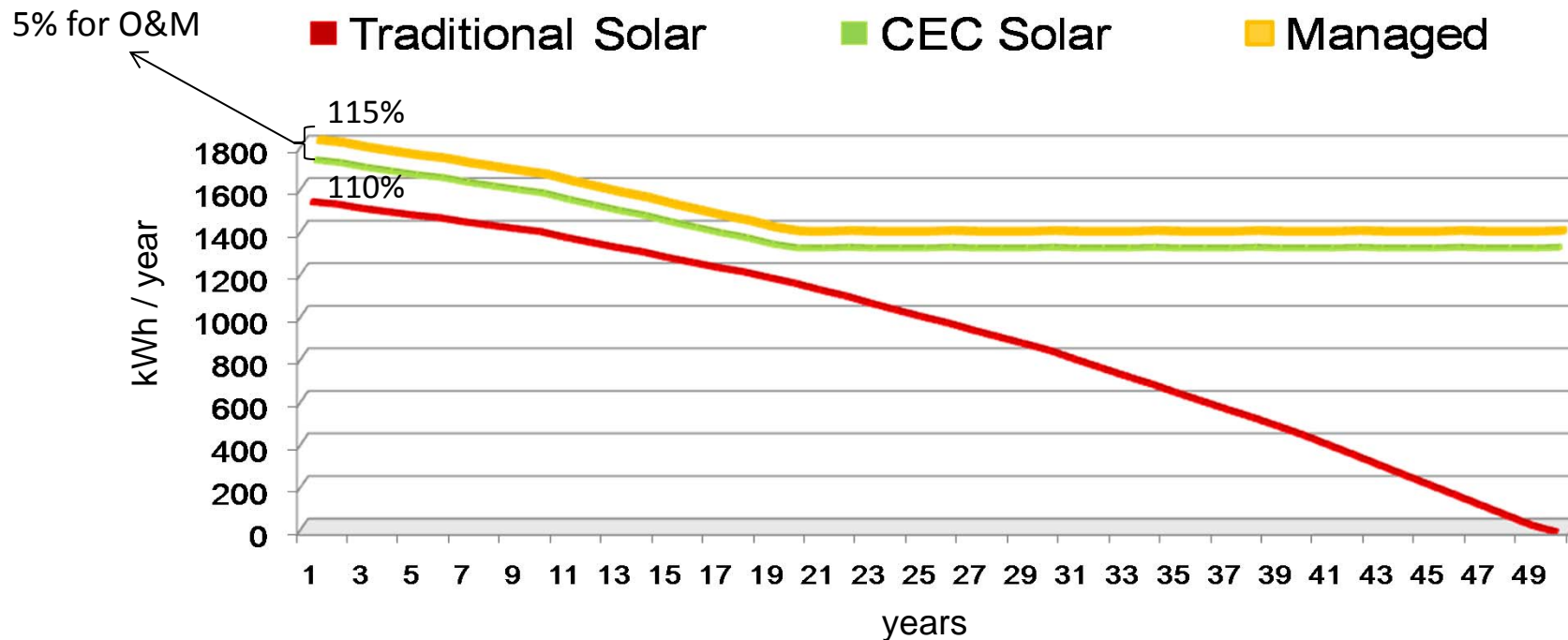




# Operations & Maintenance Program



O&M is funded by the array and limits the impact of degradation to ensure your system produces optimally over its lifespan.



# What Happens If I Move?



- Staying within the utility's territory?
  - Keep it! Simply call the CEC to have your panels' power credits assigned to your new meter.
- Leaving the Area?
  - You Have Options:
    - Sell it with your home / building
    - Sell it separately, to any utility customer or the CEC
    - Gift it to a relative or include it in your estate planning



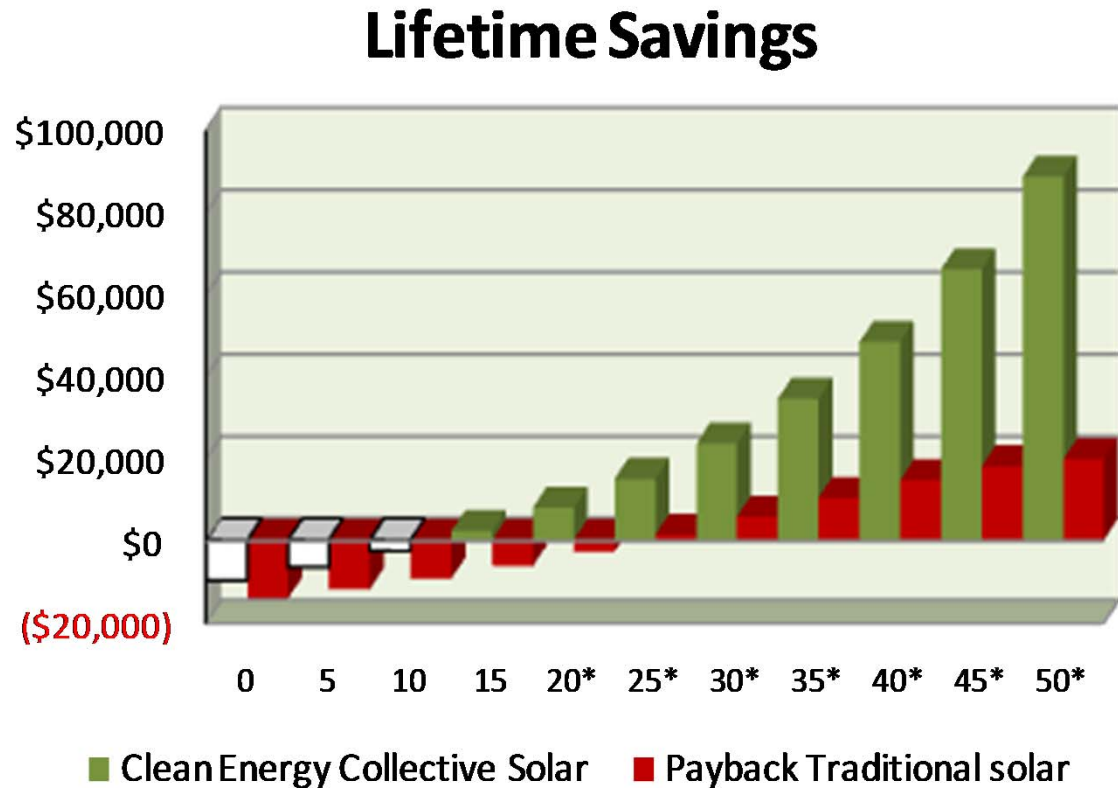
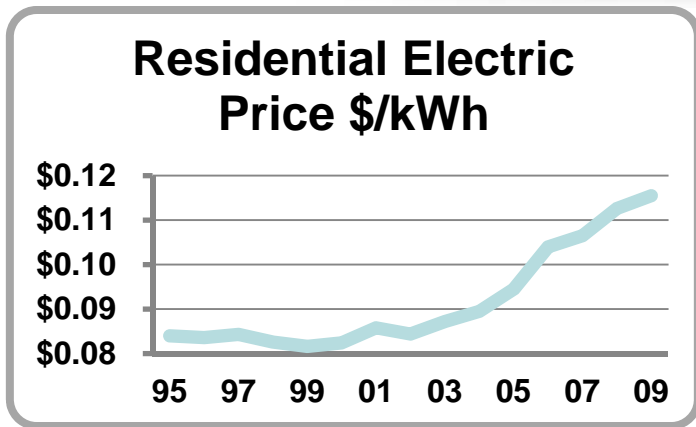
# MyCleanEnergy – Stay in touch



- Real-time secure access to your system:
  - Production, credits, reports, tools
- Charting of production and consumption:
  - kWh generated, \$ saved, and CO<sub>2</sub> eliminated
- Equivalent comparisons
  - Dollars, Trees, Car miles, CO<sub>2</sub> Barrels of oil, Homes powered



# Protection from Energy Price Inflation





# Wright-Hennepin Community Solar



- 216 – 180 Watt tenKsolar Panels
- Battery storage
- Hosted at Wright-Hennepin's headquarters
- Minimum 1 panel purchase
- Up to 100% of your usage
- \$869 per panel (\$4.83 / W including all tax credits / incentives)



# How Much Can I Save?




- 21 year payback
- 3.8% year-1 return
- 7.2% average annual return
- \$3,128 of lifetime savings per panel (all estimated)
  
- Estimated typical home (5.94 kW – 13,200 kWh)
  - 33 panels / \$28,690
  - \$103,405 lifetime savings
  - 360% lifetime payback



# CEC Community Solar in 2012



**HOLY CROSS ENERGY**

A Touchstone Energy® Cooperative 



**Kit Carson Cooperative  
Community Solar**

*Sun for All - All for Sun!*

A Touchstone Energy® Cooperative 




**Colorado Springs Utilities**

*It's how we're all connected*

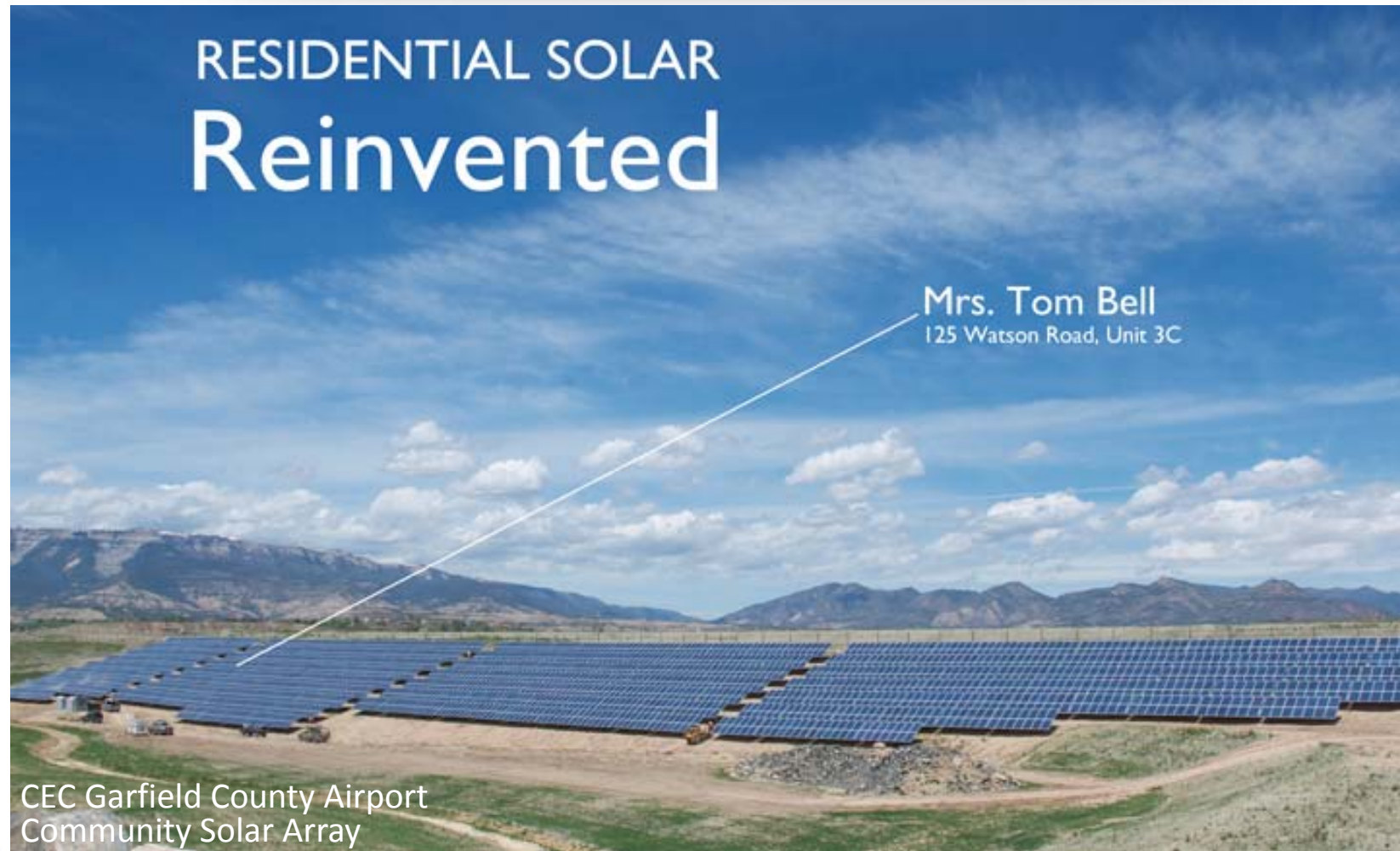


**SAN MIGUEL POWER ASSOCIATION**

 Touchstone Energy® Cooperatives  
*The power of human connections®*



# Community Solar with the CEC





go ahead. power up.



Clean Energy  
COLLECTIVE™

**Thank You.**

*800-646-0323 | [easycleanenergy.com](http://easycleanenergy.com)*

