



# Taking it from Brown to Green: Renewable Energy on Contaminated Lands TAP Webcast, April 22, 2009

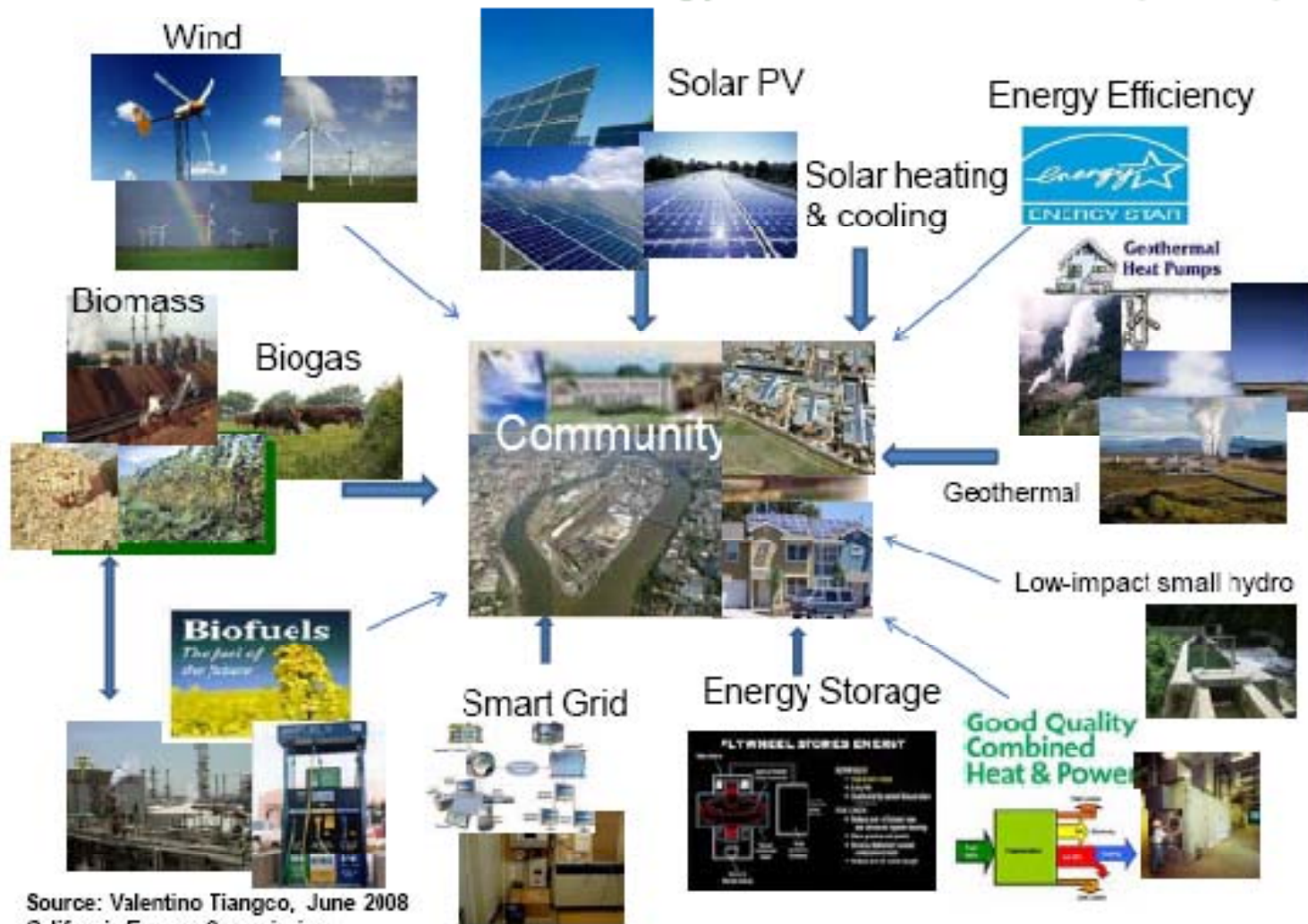
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# Why Renewable Energy at Contaminated Sites?

- Productive use of contaminated lands
- Employment in rural communities
- Long term stewardship of contaminated lands

# Vision for Renewable-based Energy Secure Communities (RESCO)



Graphic courtesy of: Notice of Staff Workshop on the California Energy Commission's Public Interest Energy Research (PIER) Renewables Program Research, Development and Demonstration Initiative for Renewable-based Energy Secure Communities

# Priorities for RE Development

1. Renewable resource assessment
  1. NREL solar and wind maps  
<http://www.epa.gov/renewableenergyland/>
  2. Utility wind must be Class 4 or higher. IF wind is promising, need one year of met tower data with at least 50M tower
2. Land Access
3. Transmission Access – involves interconnection study – ISO and/or utility involvement – State can help prioritize
4. Economics – Federal, State and local incentives
5. Permitting – big issue if federal land – NEPA, EIS, etc. – may be able to expedite for Brownfield RE
6. PPA with utility or owner
7. Financing based on all above

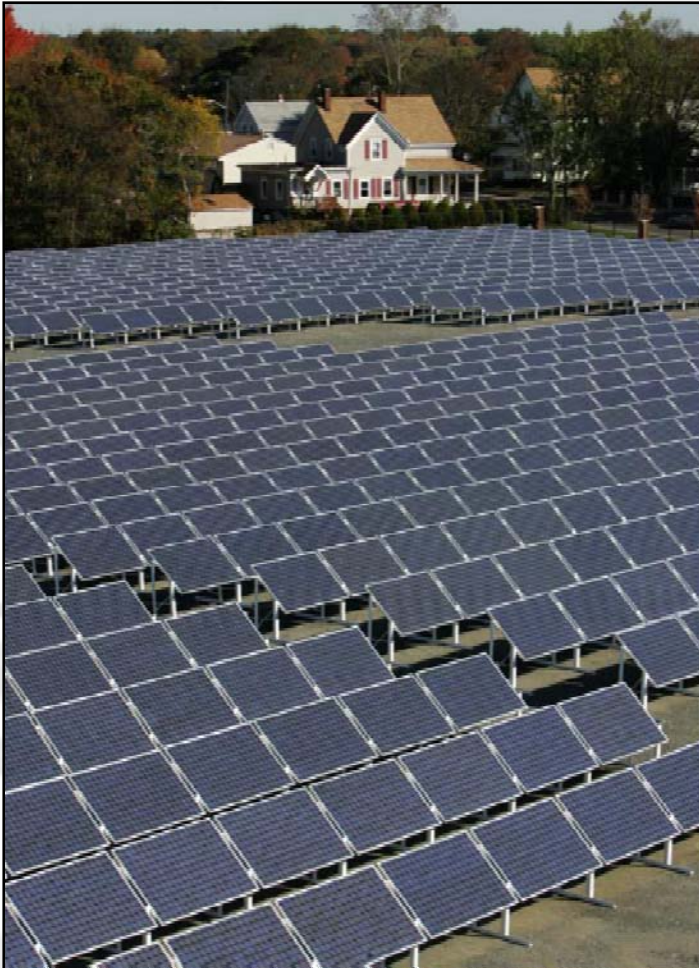
# Brockton's Brightfield

Brownfields to  
Brightfields -  
*Revitalizing  
Brockton by  
Converting a  
Former  
Manufactured  
Gas Plant to a  
Solar Energy  
Generating  
Station*



<http://www.newmoa.org/solidwaste/cwm/renewablesites/LoriRibeiro-BrownfieldstoBrightfields-NEWMOA2008.pdf>

# Brockton's Brightfield



- *Brockton's Brightfield consists of 1,512 SCHOTT Solar modules*
- *At 460 kW, the Brockton Brightfield is the largest solar array in New England and the largest brightfield nationwide until Nellis*

# Nellis Air Force Base



Photos courtesy of SunPower Corporation

## PROJECT OVERVIEW

Location: Nevada

Completed: December 2007

Installation Type: Old Landfill Ground Mounted

System Size: ~15 MW

Covered Area: 140 acres

Number of Panels: 70,000

SunPower® T20 Tracker



# PV as a cap

Malagrotta Landfill - Italy - 998 kW





# PV as a cap

