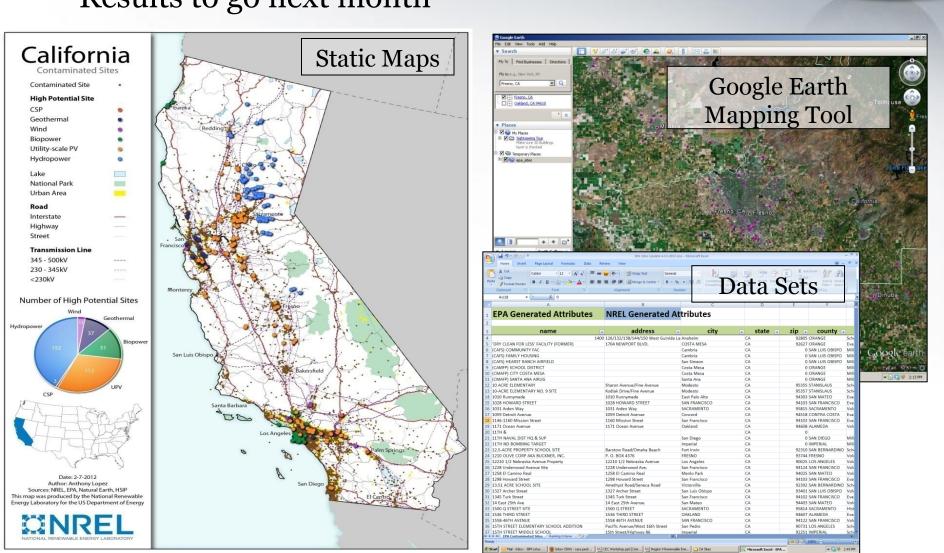
Renewable Energy Development

Promoting new renewable energy development on degraded lands for health & climate benefits

Sarah Rizk Clean Energy and Climate Change Office U.S. EPA Region IX

Mapping project of CA degraded sites with National Renewable Energy Laboratory (NREL) 11,000 sites screened for RE potential Results to go next month

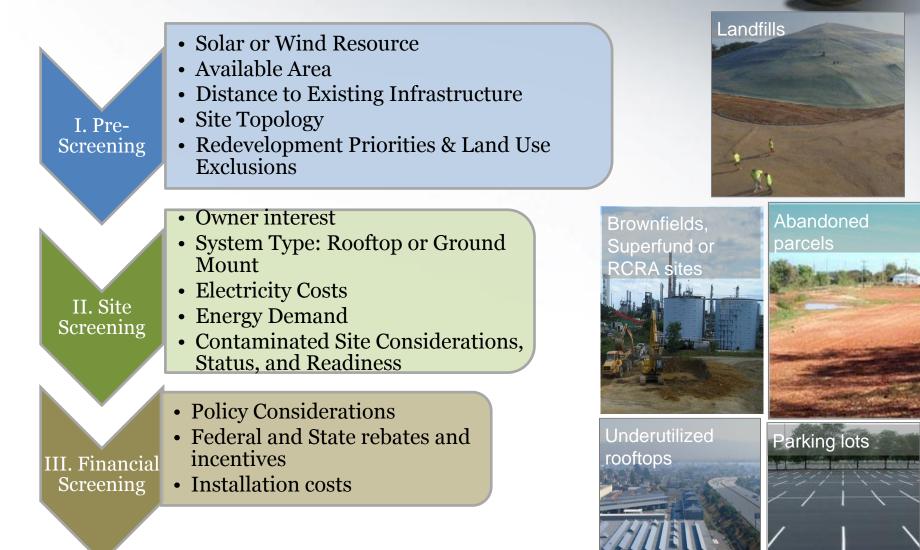


Solar & Wind Decision Trees

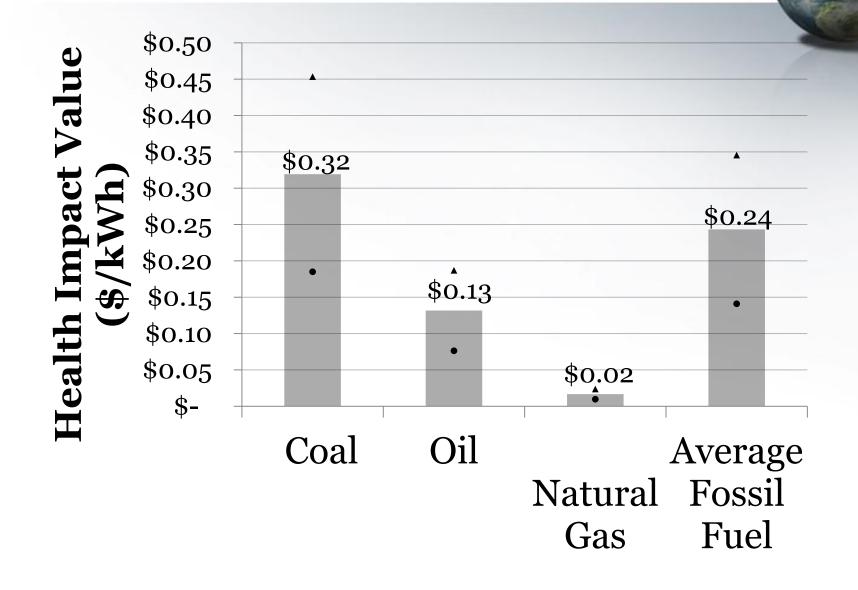


Screening Sites for Solar PV or Wind Energy Potential

Emphasis on Redevelopment of Potentially Contaminated Sites, Underutilized Sites, or Rooftops



National Average Cost of Fossil Fuels is \$0.24/kWh



Example Application

- California, 100,000 kWh needed
 - Grid Power: \$0.125/kWh
 - 100% Renewable Energy: \$0.01/kWh premium, \$0.135/kWh
- Health impacts : 100,000 kWh x \$0.03/kWh = \$3,000

	Grid	Renewables
Base Cost	\$12,500	\$13,500
Health Adder	\$3,000	\$ 0
TOTAL	\$15,500	\$13,500

The average US homeowner would be saving \$240/yr in health impacts by buying renewables

California Imported Electricity increases \$/kWh by 5-fold

