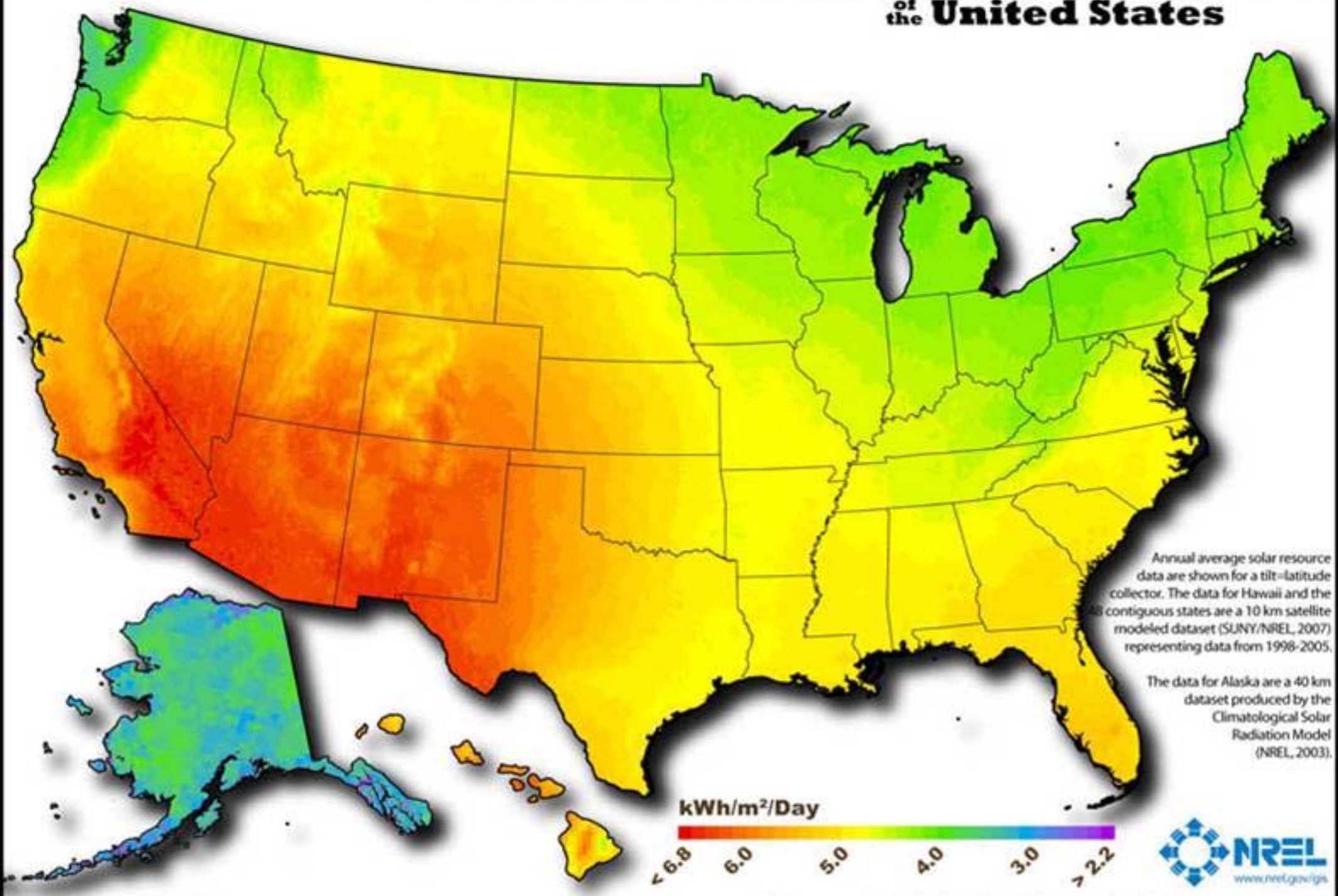


El Paso Approach

January 27, 2010

Photovoltaic Solar Resource of the United States



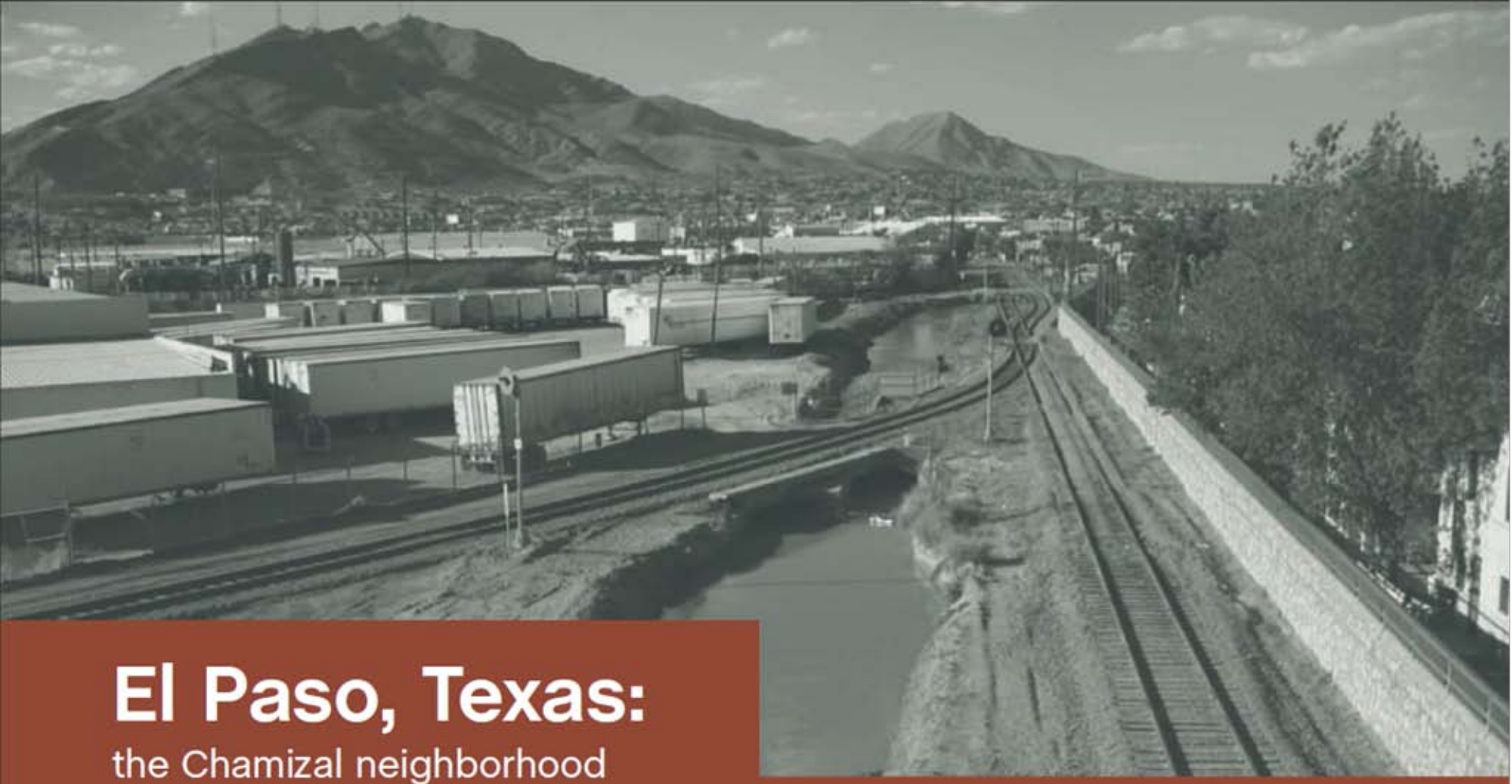
Annual average solar resource data are shown for a tilt=latitude collector. The data for Hawaii and the 48 contiguous states are a 10 km satellite modeled dataset (SUNY/NREL, 2007) representing data from 1998-2005.

The data for Alaska are a 40 km dataset produced by the Climatological Solar Radiation Model (NREL, 2003).

NREL
www.nrel.gov/gis

Author : Billy Roberts - October 20, 2008

This map was produced by the National Renewable Energy Laboratory for the U.S. Department of Energy.



El Paso, Texas:

the Chamizal neighborhood

The Enduring Challenge of Concentrated Poverty in America:

Case Studies from Communities Across the U.S.



What is El Paso doing?

City of El Paso Vision Statement:
"To establish El Paso as the premier community of the Southwest"

City of El Paso Mission Statement:
"To create a more vibrant, harmonious and ***sustainable*** city by building on existing strengths, exploring new opportunities, fostering regional partnerships and responding to change"

Sustainability Plan

- Strategic Plan
- City-Wide (and deep)
  - Air
  - Buildings & Development
  - Community
  - Energy
  - Transportation
  - Waste & Materials

- **http://www.elpasotexas.gov/econdev/greensummit.asp**

Sample Goals

- Develop a plan to reduce greenhouse gas emissions to meet Kyoto protocol guidelines by 2011
- Establish green building practices as standard business practice in El Paso by 2015
- Reduce City total energy consumption by 30% by 2014
- Implement 20 renewable energy projects by 2015
- Transition 20% of City energy use to renewable sources by 2020
- Achieve residential waste diversion rate of 25% by 2013 to become a leader among Texas cities

What have we already done?

- Curbside recycling
- Alternative fuels
- LEED Silver buildings
- SMART code for development
- Energy efficiency retrofits
- Transit terminals

What will we be doing soon?

- *$5.8M Energy Block grant*
  - *Energy retrofits*
  - *Landfill gas system*
  - *Green fleet*
  - *Appliance rebates*
  - *Solar outreach project*
  - *Recycling outreach*
  - *Solar photovoltaic power project*
  - *Virtual meeting room*

Renewable Energy Plans

- *City*
  - *3rd providers (PPA or lease) for City buildings*
  - *Solar power for desalination plant*
  - *Landfill gas to energy system*
  - *Wastewater digester gas system*
- *Community*
  - *Property tax financing for energy improvements (PACE)*
  - *Streamlined permitting*
  - *Clarify interconnection requirements*

Energy Efficiency Plans

- *City*
  - *$3.5M State ARRA funding – Street Lighting*
  - *Implement new LEED standards*
  - *Continue building retrofits*
- *Community*
  - *“Retrofit Ramp Up” Grant ($75M)*
  - *Low Income Weatherization ($6,500 per house)*
  - *Workforce development collaboration*
  - *PACE finance district*

Next Step - Implementation

- Stakeholders
  - Army
  - UTEP
  - Private sector
- Key Questions
  - What are the synergies that can be used to pursue our sustainability goals?
  - What are private industry's plans to utilize sustainable technologies and practices?
  - What resources are available? Needed? How do we create the needed resources?

Summit Results

- Relationships and networks
- Action plans in common goal areas
- Action plans to address areas of need
  - With commitments from stakeholders



Questions?

http://www.elpasotexas.gov/econdev/greensummit.asp