

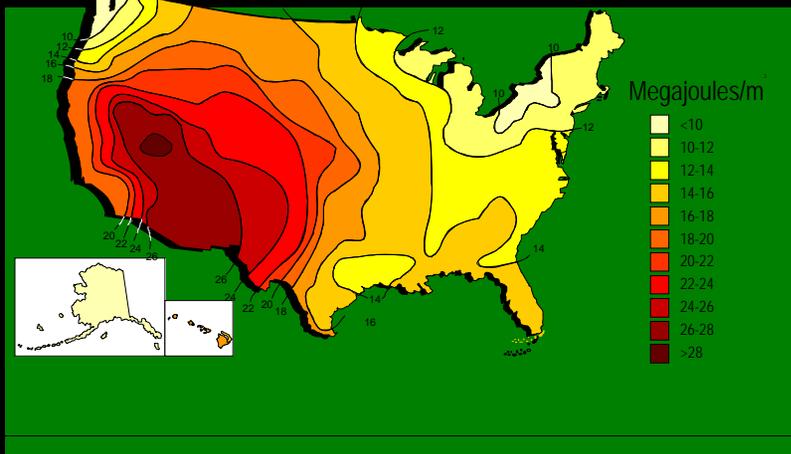
PALMETTO
RESEARCH
PROJECT

WIND

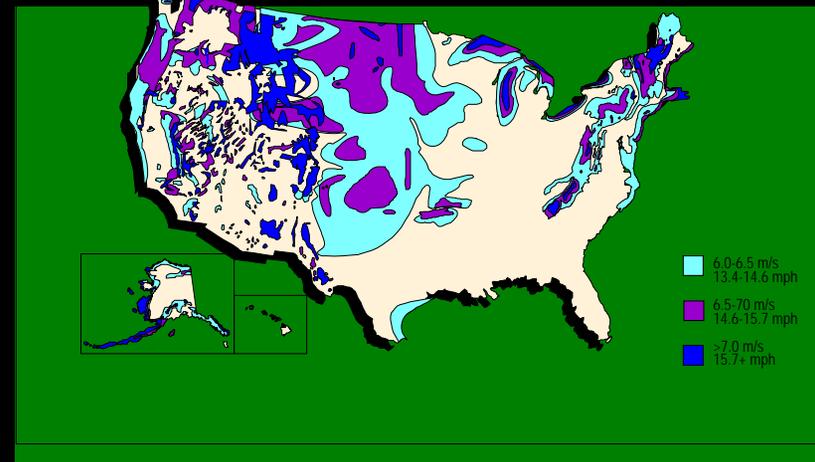


U.S. Renewable Energy Resources

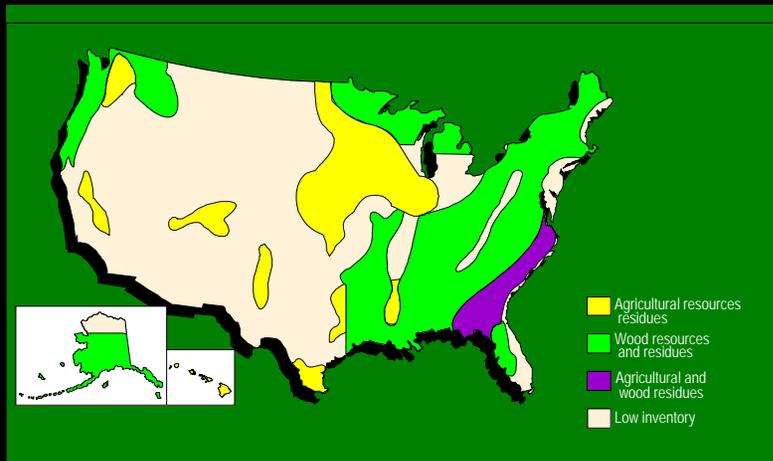
Solar



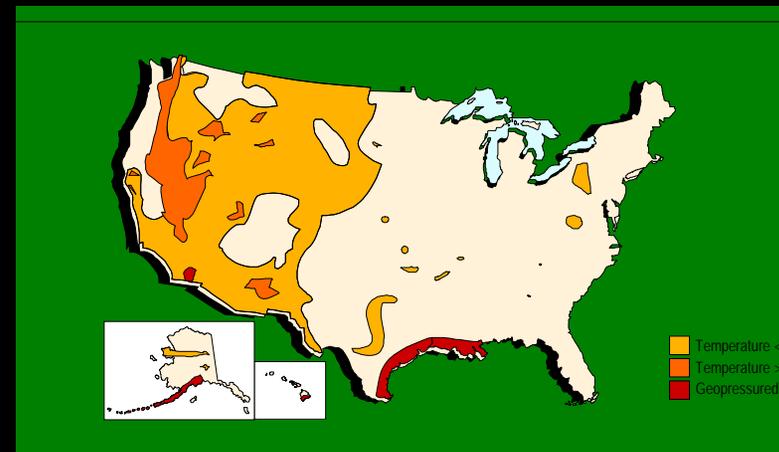
Wind



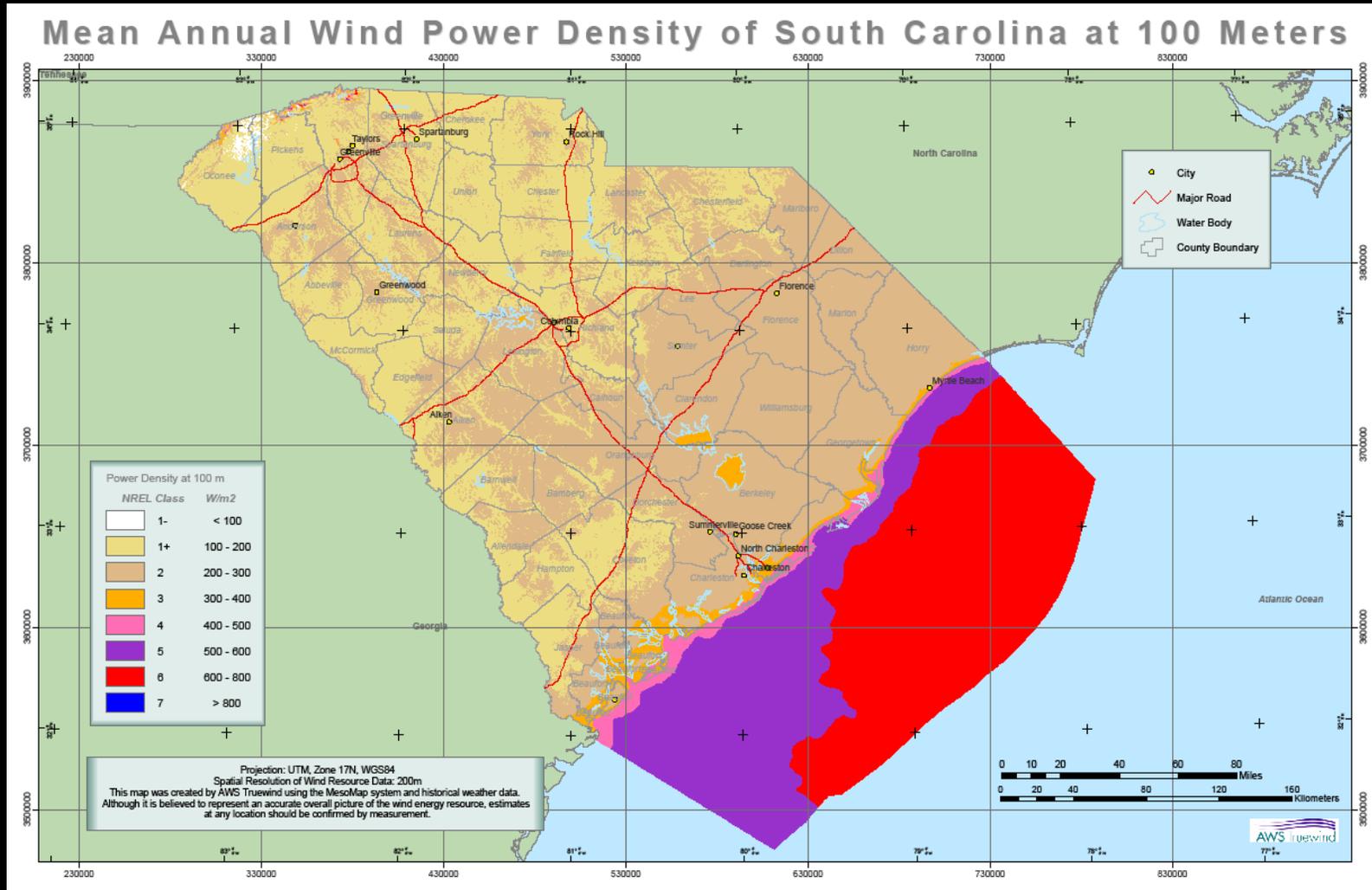
Biomass



Geothermal



Wind Map of South Carolina



WHAT RENEWABLES COST



Generating Technology	2008 Cost \$/MWh	Capacity Factor
Coal	\$ 45-65	90%
CC Gas Turbine	\$ 55-110	75%
Landfill Gas	\$ 59-90	85%
Biomass	\$ 94-135	85%
Offshore Wind	\$ 119-156	35%
Solar PV	\$ 393-529	21%

Source: Renewable Resource Potential, GDS & LaCapra Study

Project To Date

- **Wind Mapping**
- **Inland Anemometer Stations**
- **Coastal Wind for Schools Program**
- **Extensive Study of Offshore Wind Potential**
 - **Buoys**
 - **Anemometer Station**
 - **Transmission**
 - **Regulation**

Palmetto Winds Offshore Research Project

- DOE grant + Santee Cooper funding
- 6 instrumentation buoys,
2 shore-based
observation stations
- Related tracks:
 - Regulatory
 - Transmission



Partners:

Santee Cooper CCU
SCEO NCSU Clemson SCIES



Anemometer Station

- Proposals under review
- Early 2010 construction
- Data collection for 1 year

