

# Louisiana Renewable Resource Maps

This document includes renewable resources for a variety of sources for Louisiana, including:

- Solar PV
- Solar CSP
- Biomass – 5 maps total:
  - Aggregate biomass map, rolling up 4 main resources (map of each included):
    1. Agricultural residues
    2. Wood residues
    3. Municipal residues
    4. Dedicated energy crops
- Offshore wind

# Renewable Energy Resource : Louisiana PV Solar Radiation

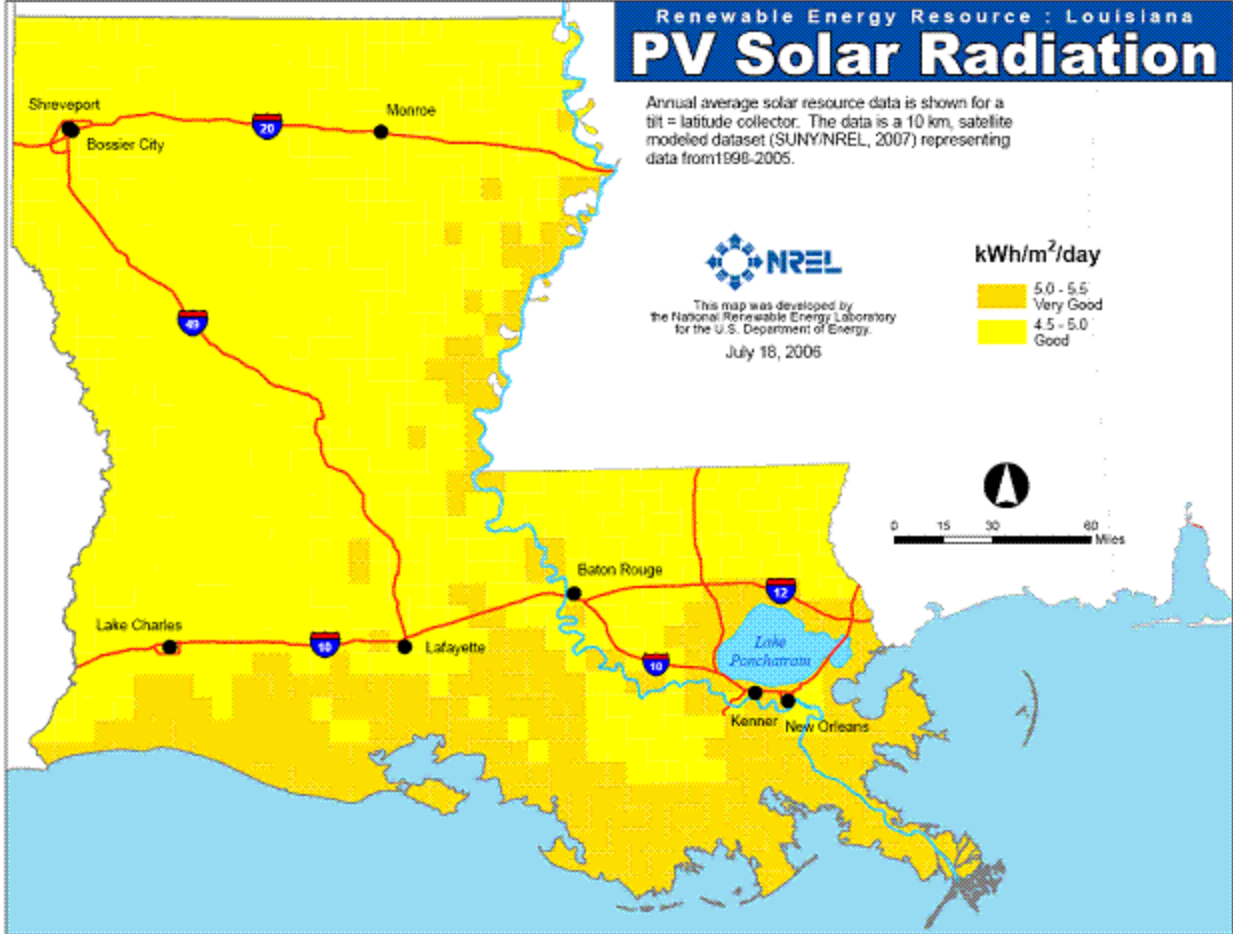
Annual average solar resource data is shown for a tilt = latitude collector. The data is a 10 km, satellite modeled dataset (SUNY/NREL, 2007) representing data from 1998-2005.



This map was developed by the National Renewable Energy Laboratory for the U.S. Department of Energy.  
July 18, 2006

kWh/m<sup>2</sup>/day

- 5.0 - 5.5 Very Good
- 4.5 - 5.0 Good



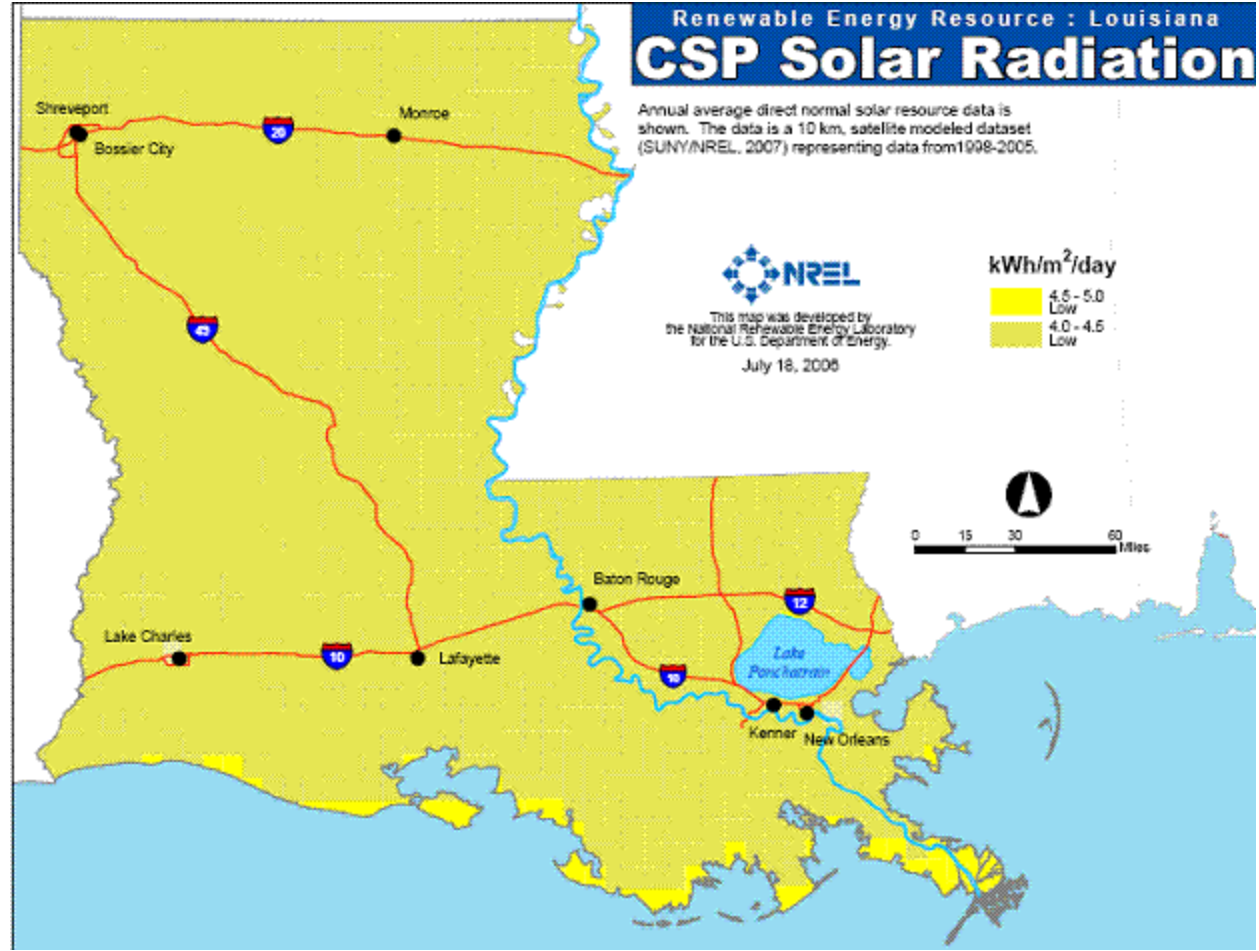
# Renewable Energy Resource : Louisiana CSP Solar Radiation

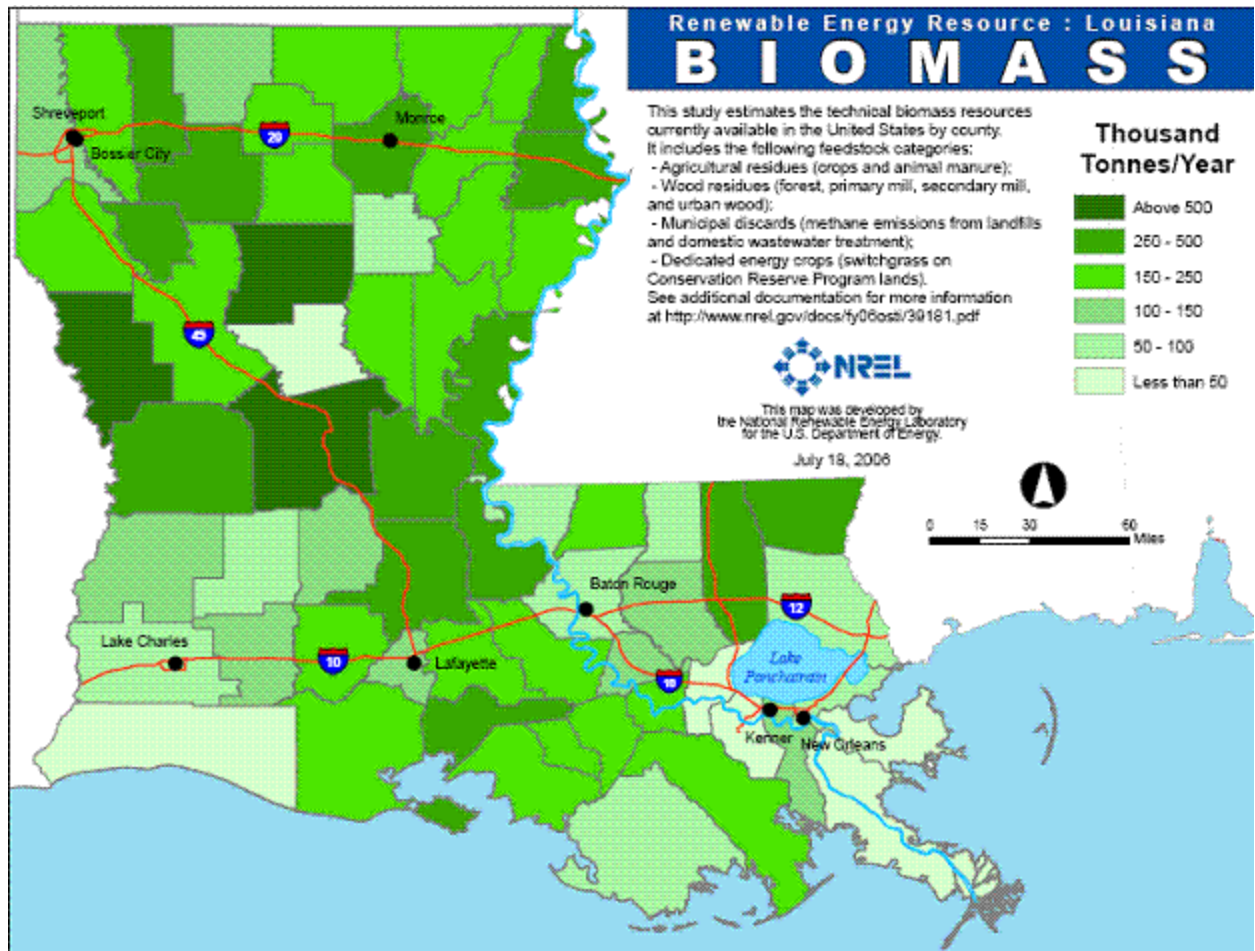
Annual average direct normal solar resource data is shown. The data is a 10 km, satellite modeled dataset (SUNY/NREL, 2007) representing data from 1998-2005.



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**kWh/m<sup>2</sup>/day**  
4.5 - 5.0 Low  
4.0 - 4.5 Low





*NOTE: This map is a composite of the four biomass maps on the following pages*

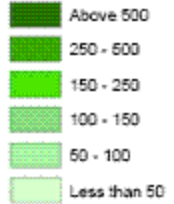
Renewable Energy Resource : Louisiana

# BIOMASS

## Agricultural Residues

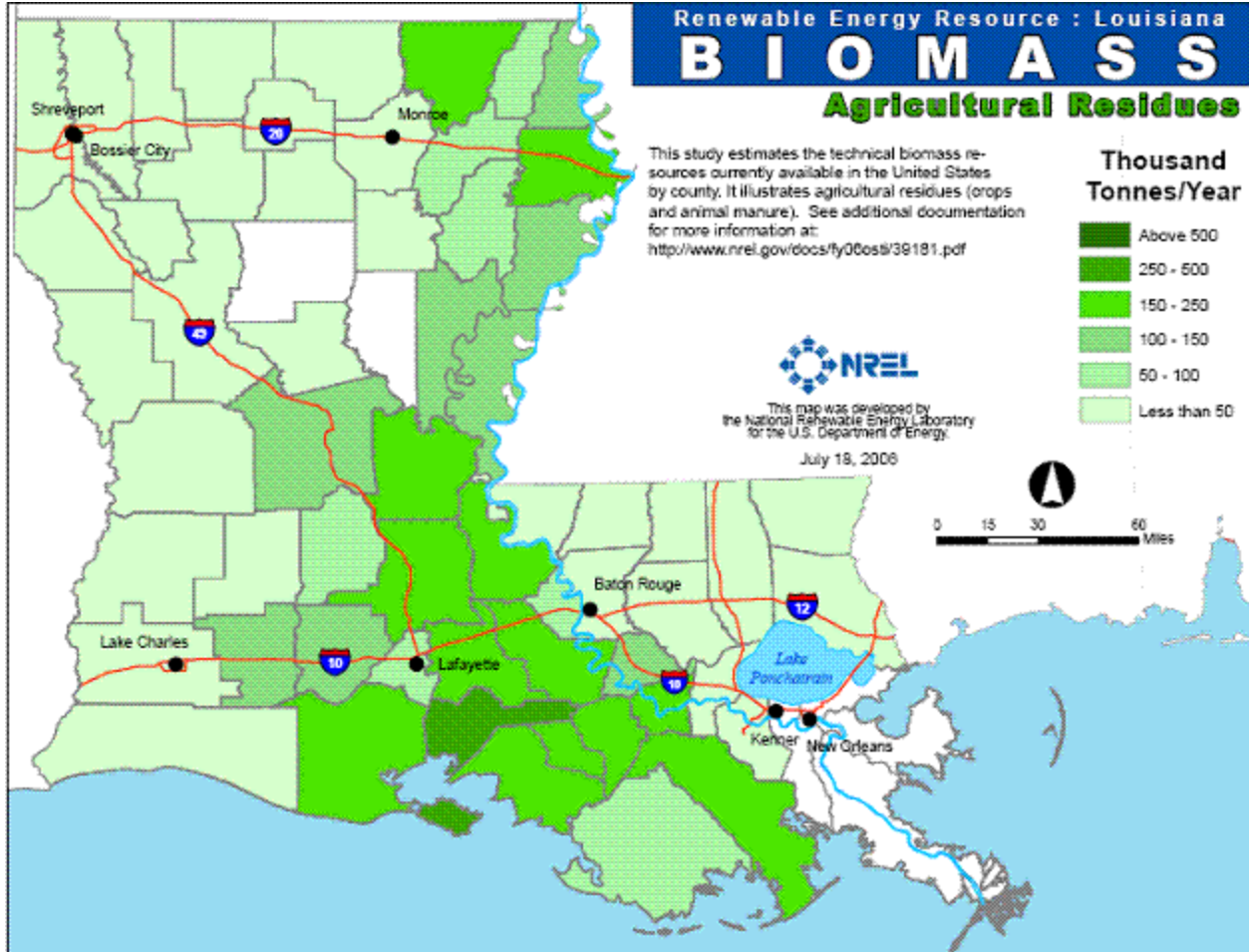
This study estimates the technical biomass resources currently available in the United States by county. It illustrates agricultural residues (crops and animal manure). See additional documentation for more information at: <http://www.nrel.gov/docs/ty00os/39181.pdf>

Thousand  
Tonnes/Year



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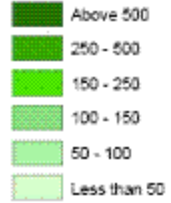
Renewable Energy Resource : Louisiana

# BIOMASS

## Wood Residues

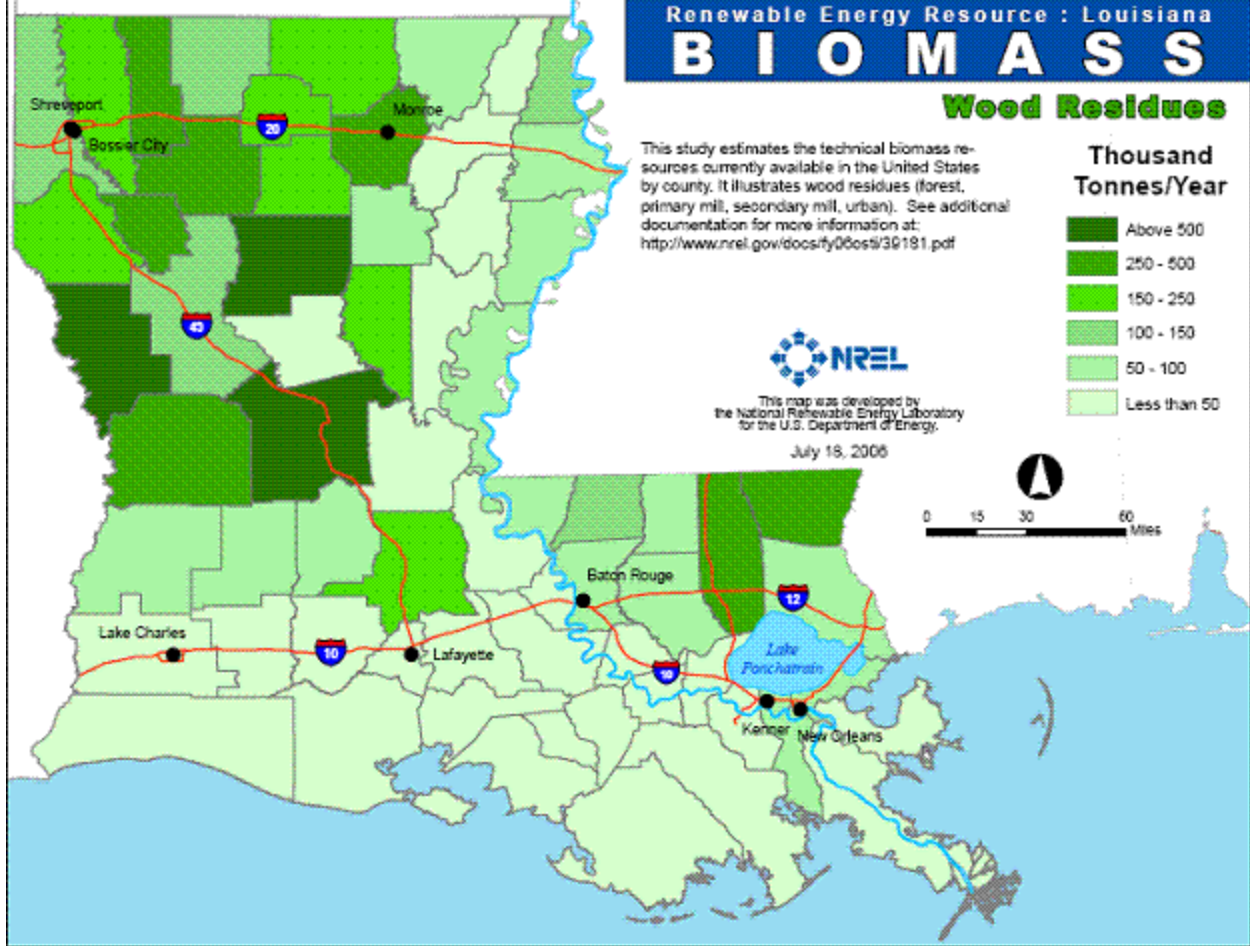
This study estimates the technical biomass resources currently available in the United States by county. It illustrates wood residues (forest, primary mill, secondary mill, urban). See additional documentation for more information at: <http://www.nrel.gov/docs/ty06ost/39191.pdf>

Thousand  
Tonnes/Year



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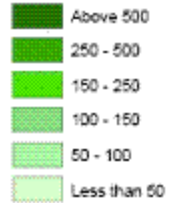


# BIOMASS

## Municipal Residues

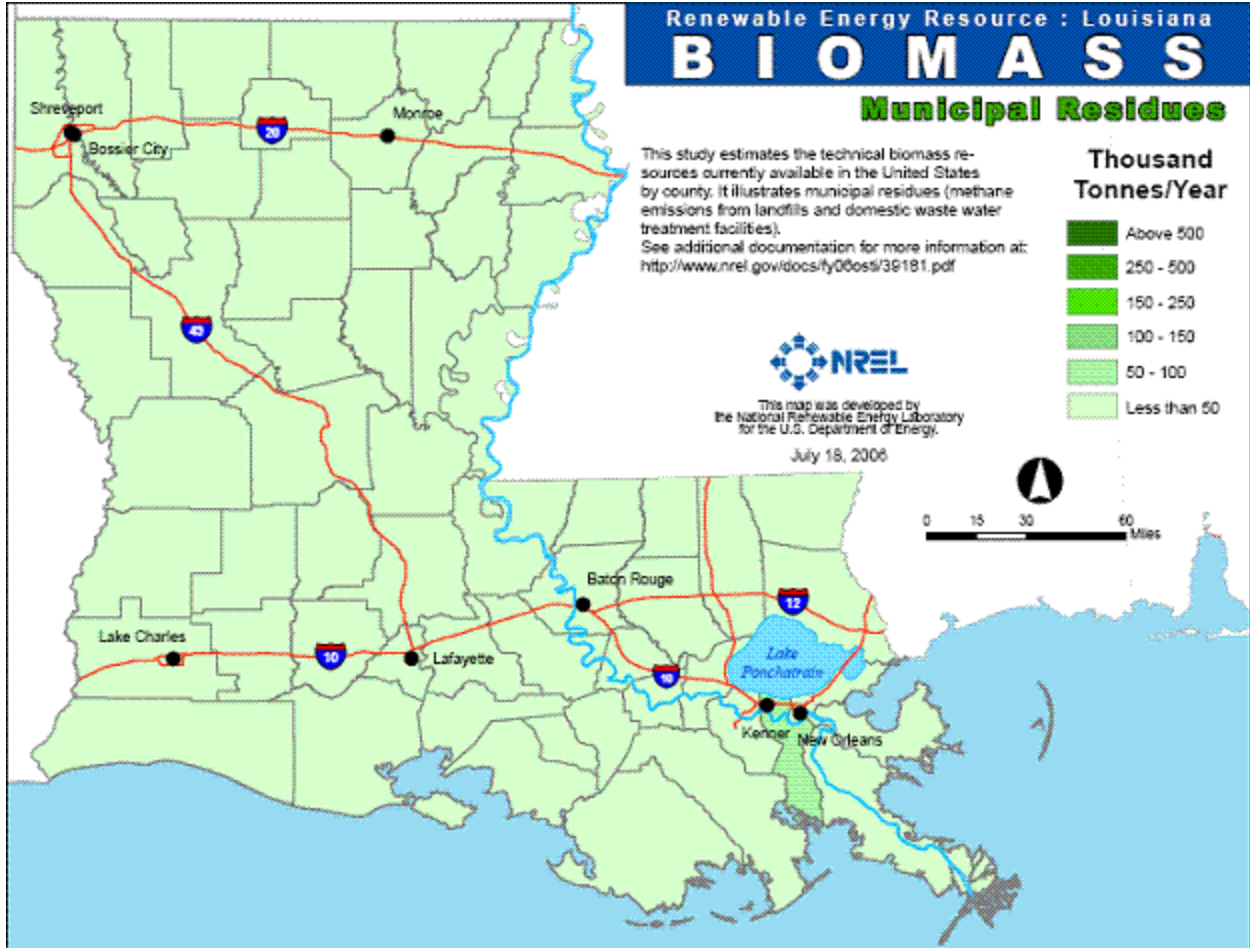
This study estimates the technical biomass resources currently available in the United States by county. It illustrates municipal residues (methane emissions from landfills and domestic waste water treatment facilities). See additional documentation for more information at: <http://www.nrel.gov/docs/ty06osts/39181.pdf>

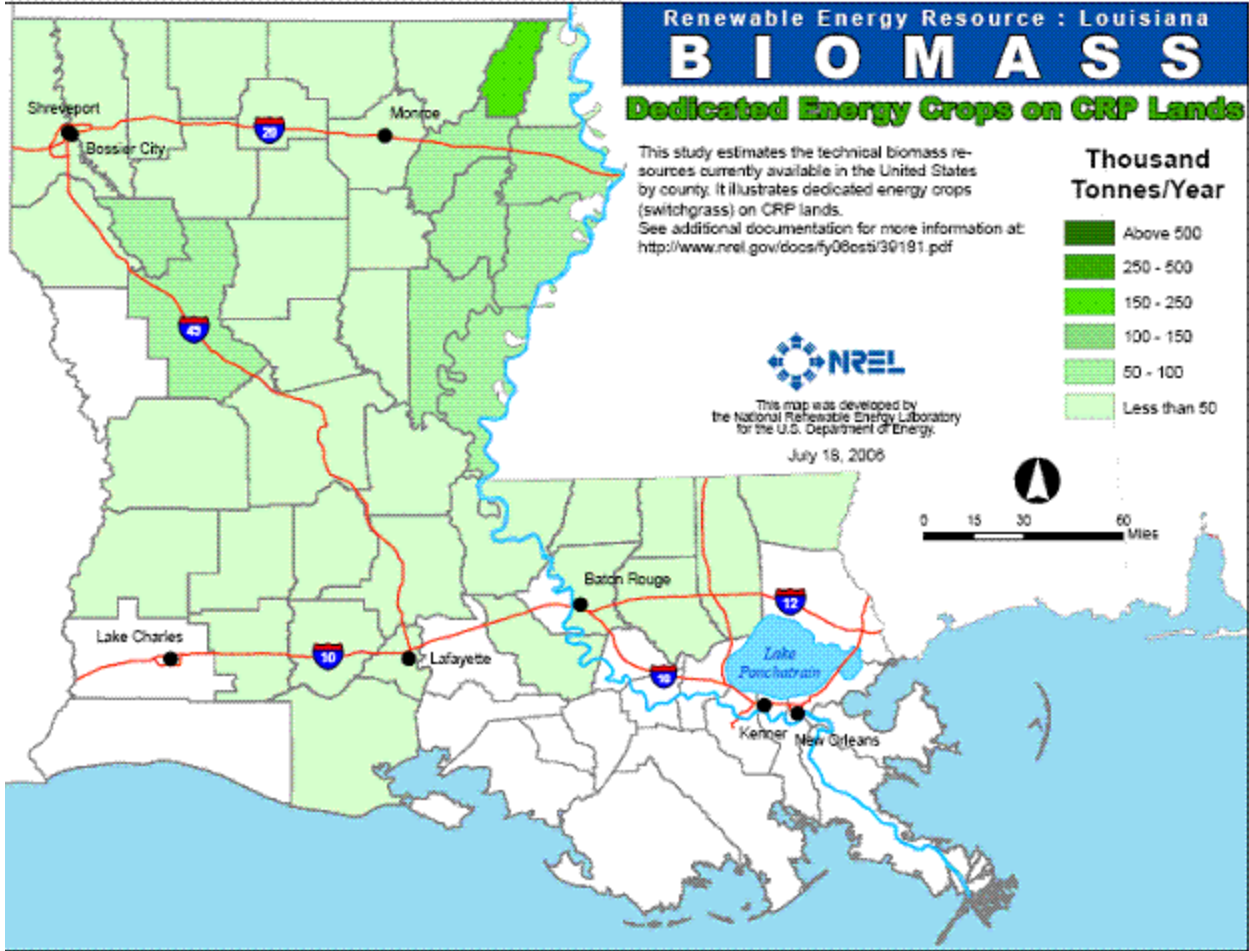
Thousand  
Tonnes/Year



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# Offshore Wind

## Wind Power Classification

Wind Power Class	Resource Potential	Wind Power Density at 50m W/m <sup>2</sup>	Wind Speed* at 50 m m/s	Wind Speed* at 50 m mph
1	Poor	0 - 200	0.0 - 5.8	0.0 - 12.5
2	Marginal	200 - 300	6.6 - 8.4	12.5 - 14.3
3	Fair	300 - 400	6.4 - 7.0	14.3 - 15.7

Wind model boundary

\*Wind speeds are based on a Weibull k value of 2.0



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The wind power resource data for this map was produced by AWS TrueWind using the Mesomap system and historical weather data. It has been validated with available surface data by the National Renewable Energy Laboratory and wind energy meteorological consultants.

