



# North Carolina Renewable Electricity Mandate Status

## Renewable Mandate Status: Unknown (unimplemented)

- 2009 Estimated Qualified Renewable Generation: 1.5%<sup>1</sup>
- 2009 Renewable Mandate: None
- 2021 Renewable Mandate: 12.5% for IOU’s (10% for municipal utilities and cooperatives by 2018)<sup>2</sup>

**Eligible Resources:** Solar Water Heat, Solar Space Heat, Solar Thermal Electric, Solar Thermal Process Heat, Photovoltaics, Landfill Gas, Wind, Biomass, Geothermal Electric, CHP/Cogeneration, Hydrogen, Anaerobic Digestion, Small Hydroelectric, Tidal Energy, Wave Energy<sup>3</sup>

- Hydroelectric can meet up to 30% of requirement
- Solar: 0.2% in 2018 , Swine Waste: 0.2% in 2018 Poultry Waste: 900 GWh in 2014<sup>4</sup>

## Compliance schedule<sup>5</sup> for investor-owned utilities:<sup>6</sup>

Year	Solar	Swine Waste	Poultry Waste	Total
2010	0.02%	-	-	-
2012	0.02%	0.07%	170 GWh	3%
2013	0.07%	0.07%	700 GWh	3%
2014	0.07%	0.07%	900 GWh	6%
2015	0.14%	0.14%	900 GWh	10%
2021	0.2%	0.2%	900 GWh	12.5%

**Renewable portfolio history:** In Aug 2007, NC Legislature passed Senate Bill 3, establishing RPS and in February 2008, the North Carolina Utilities Commission (NCUC) issued an order adopting final rules to implement the REPS.<sup>7</sup>

- Utilities may recover the incremental cost of renewable resources and up to \$1 million in alternative energy research expenditures annually from customers. The cost per customer account is capped according to the schedule on the right:

Sector	2008	2012	2015
Residential	\$10	\$12	\$34
Commercial	\$50	\$150	\$150
Industrial	\$500	\$1000	\$1000

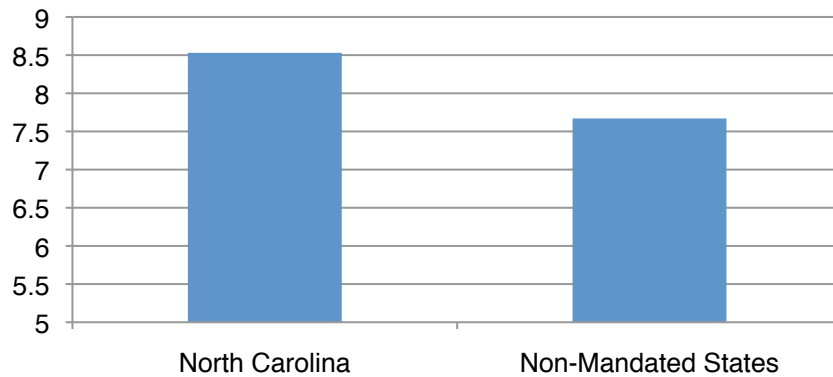
**Credit Trading:** Yes

**Noncompliance penalty:** There are no specified penalties or alternative payments for noncompliance, however, the North Carolina Utilities Commission may enforce compliance through its general authorities.<sup>8</sup>

**Electricity Price Ranking:** 24<sup>th</sup> Lowest<sup>9</sup>

- 8.53 cents/KWh in North Carolina
- 7.67 cents/KWh in non-mandated states

## Price of Electricity (Cents/KWh)



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<sup>1</sup> Electricity Generation Data: Energy Information Administration, *Electricity Generation 2009*, [http://www.eia.doe.gov/cneaf/electricity/epa/generation\\_state\\_mon.xls](http://www.eia.doe.gov/cneaf/electricity/epa/generation_state_mon.xls).

<sup>2</sup> General Assembly of North Carolina (2009). <http://www.ncleg.net/Sessions/2009/Bills/Senate/PDF/S960v6.pdf>

<sup>3</sup> "North Carolina," [http://www.dsireusa.org/incentives/incentive.cfm?Incentive\\_Code=NC09R&re=1&ee=1](http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=NC09R&re=1&ee=1)

<sup>4</sup> General Assembly of North Carolina (2009). <http://www.ncleg.net/Sessions/2009/Bills/Senate/PDF/S960v6.pdf>

<sup>5</sup> Database of state Incentives for Renewables and Electricity, North Carolina.

[http://www.dsireusa.org/incentives/incentive.cfm?Incentive\\_Code=NC09R&re=1&ee=1](http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=NC09R&re=1&ee=1).

<sup>6</sup> Note that each year's percentage requirement refers to the previous year's electricity sales (i.e. the 2021 goal is 12.5% of 2020 retail sales).

<sup>7</sup> Database of state Incentives for Renewables and Electricity, North Carolina.

[http://www.dsireusa.org/incentives/incentive.cfm?Incentive\\_Code=NC09R&re=1&ee=1](http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=NC09R&re=1&ee=1).

<sup>8</sup> See North Carolina General Statutes § 62-2,

[http://www.ncleg.net/enactedlegislation/statutes/html/bychapter/chapter\\_62.html](http://www.ncleg.net/enactedlegislation/statutes/html/bychapter/chapter_62.html).

<sup>9</sup> EIA, Electric Power Monthly, Table 5.6.B., Average Retail Price of Electricity, June 2010, Released Sept. 15, 2010, [http://www.eia.doe.gov/cneaf/electricity/epm/table5\\_6\\_b.html](http://www.eia.doe.gov/cneaf/electricity/epm/table5_6_b.html).