North Carolina Renewable Power – Lumberton, LLC Environmental Justice Report

North Carolina Department of Environmental Quality

May 24, 2022

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1 Introduction

Environmental justice (EJ) is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies (US EPA). This evaluation examines the demographic and environmental conditions in Robeson County, Census Tracts 9608.02, 9611, and 9616.01, and the one-mile radius around the property boundary of the North Carolina Renewable Power – Lumberton, LLC facility. Finally, the demographics of the entire state of North Carolina are also considered as they compare to both the county, census tracts, and radius settings.

The primary goal of the EJ Report is to encourage comments and suggestions from the surrounding community, industry, and environmental groups throughout the comment period. Public comments were considered throughout the comment period to inform the Final EJ Report.

2 Environmental Justice Evaluation

The North Carolina Department of Environmental Quality (NCDEQ) has assessed the permit application and the potential impact on communities surrounding the requested permit application. The assessment of potential impacts included:

- Review of the permit application submitted by North Carolina Renewable Power Lumberton, LLC
- An emissions overview
- Study of area demographics (determined by utilizing the US EPA Environmental Justice tool (EJSCREEN) https://ejscreen.epa.gov/mapper/ and current, available census data.
 https://data.census.gov/cedsci/)
- Comparison of local area demographics to both county and statewide census data
- County health assessment
- Surrounding sensitive receptors
- Identification of local industrial sites (using the NCDEQ Community Mapping System https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=1eb0fbe2bcfb4cccb3 cc212af8a0b8c8).

Demographics for Robeson County will be compared to the local (census tracts and project radius) level data to identify any disparities surrounding the project area. Using standard environmental justice guidelines from the EPA and National Environmental Policy Act (NEPA) documentation, the following conditions will be flagged as communities with the potential for having environmental justice concerns:

- 10% or more in comparison to the county or state average
- 50% or more minority
- 5% or more in comparison to the county or state average for poverty

3 Proposed Project

North Carolina Renewable Power – Lumberton, LLC (NCRP) currently holds Title V Permit No. 05543T277, with an expiration date of August 31, 2022, for a cogeneration power plant in Lumberton, Robeson County, North Carolina. NCRP fires wood, poultry litter, and poultry cake in its two stoker boilers (ID Nos. ES-1A and ES-1B). The boilers produce steam for the generation of electricity from the existing turbine.

NCRP has submitted a permit application for a Prevention of Significant Deterioration (PSD) modification at the existing facility in Robeson County. The current PSD application is the culmination of two Special Orders by Consent, and the resulting permit will include appropriate permit conditions based on the facility's emissions. In 2015, DAQ no longer permitted coal combustion at the facility. When the facility went back on-line in 2015, the boilers were permitted to combust poultry litter in the former coal combustion boilers.

The application includes installation of Best Achievable Control Technology (BACT) for the boilers, including selective non-catalytic reduction (SNCR) systems, multiclones, bagfilters, and two dry sorbent injection (DSI) systems. This equipment will control nitrogen oxides and particulate matter.

NCRP also permitted three belt dryers (ID Nos. ES-17, ES-18, and ES-19) and a poultry litter warehouse (ID No. ES-16) when the facility was returned to operation in 2015. These emission sources are considered as part of the PSD modification and were included in the BACT analysis conducted by NCRP.

More detailed information on the facility, processes, the modification, the emissions, and methods of calculation are included in the draft permit review. Please refer to the draft permit review for more in-depth information.

4 Geographic Area

The facility is located at 1866 Hestertown Rd, Lumberton NC 28358 (Robeson County). The highest off-site ambient air impacts will occur at the plant fence line. Although ambient impacts are expected to be minimal, a one-mile radius was used to evaluate the local demographics and socioeconomics to appropriately include the surrounding community and help inform public outreach efforts (Figure 1).

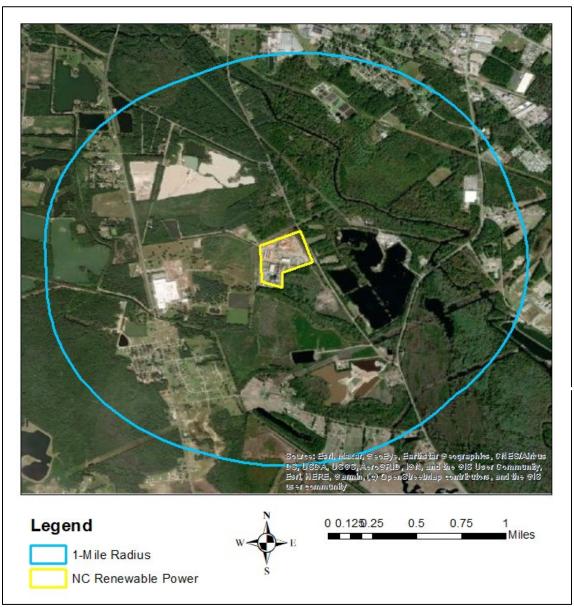


Figure 1. Facility location with one-mile radius.

Robeson County is designated as a Tier 1 county by the NC Department of Commerce. Tier 1 counties encompass the 40 most distressed counties based on average unemployment rate, median household income, percentage growth in population, and adjusted property tax per capita. The one-mile radius around the facility used in this analysis is fully within Robeson County and is encompassed by three census tracts: 9608.02, 9611, and 9616.01 (Figure 2). The facility is located in Census Tract 9608.02. Census tracts are small, relatively permanent statistical subdivisions of a county with a unique numeric code (US Census Bureau). The census tracts encompass land within the state designated tribal statistical area for the Lumbee Tribe.

The Lumbee Tribe is the largest tribe in North Carolina and is the largest tribe east of the Mississippi and takes its name from the Lumber River. There are over 55,000 members of the Lumbee Tribe in North Carolina and they reside primarily in Robeson, Hoke, Cumberland, and Scotland counties. (https://ncadmin.nc.gov/citizens/american-indians/nc-tribal-communities).

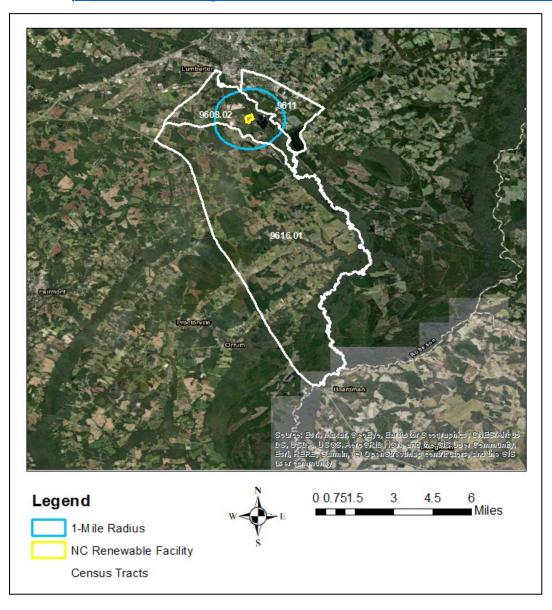


Figure 2. Census tracts surrounding facility location

5 Regional and Local Settings

The following sections on race and ethnicity, age and sex, disability, poverty, household income, and Limited English Proficiency (LEP) populations are based on U.S. Census Bureau data, first at a state and county level (regional setting), and then at a census tract and project radius level (local setting). The surrounding census tracts included will be any census tract that overlaps into the one-mile radius. Demographics of Robeson County will be compared to the local level data to identify any disparities surrounding the project area. Using standard environmental justice guidelines from the U.S. EPA and NEPA documentation, the following conditions will be flagged as potential communities of concern:

- 1. 10% or more in comparison to the county average
- 2. 50% or more minority
- 3. 5% or more in comparison to the county average for poverty

For example, if a census tract has 35% of the population classified as low income but the county consists of 30% low income, the census tract would exceed the county average by 16.7% and thus be flagged as a potential area of concern. For this report, census data from 2010 and census data estimates from 2011-2015 and 2013-2017 were used. 2010 Census Bureau data is real data gathered every ten years, whereas the estimates from the more recent years are modeled based on the real data. For the data gathered from the 2013-2017 and 2011-2015 estimates, the margin of error (MOE) has been included. This value is a measure of the possible variation of the estimate around the population value (US Census Bureau). The Census Bureau standard for the MOE is at the 90% confidence level and may be any number between 0 and the MOE value in either direction (indicated by +/-).

5.1 Race and Ethnicity

Regional Setting

According to the 2010 US Census Data Table 9: Hispanic or Latino, and Not Hispanic or Latino By Race, North Carolina's population totaled 9,535,483 individuals (Table 4). The three most common racial groups across the state were White (68.5%), Black or African-American (21.5%), and Hispanic or Latino (of any race) at 8.4%.

Robeson County had a total population of 134,168 individuals. The three most common racial groups within the county were American Indian or Alaska Native (38.4%), White (29.0%), and Black or African American (24.3%). The Black or African American population (24.3%) was greater than 10% different when compared to the state (21.5%), as was the American Indian or Alaska Native population (38.4% vs. 1.3%), the population identifying as Some other race (5.0% vs. 4.3%), or Two or more races (2.5% vs. 2.2%), and the Mexican population (6.4% vs. 5.1%).

Table 1. Regional Setting - Race and Ethnicity

	North C	arolina	Robeson County			
Race and Ethnicity	Number	Percent	Number	Percent		
Total Population	9,535,483	100.0%	134,168	100.0%		
White	6,528,950	68.5%	38,877	29.0%		
Black or African American	2,048,628	21.5%	32,637	24.3%		
American Indian or Alaska Native	122,110	1.3%	51,502	38.4%		
Asian	208,962	2.2%	993	0.7%		
Native Hawaiian and Other Pacific Islander	6,604	0.1%	86	0.1%		
Some other Race	414,030	4.3%	6,672	5.0%		
Two or More Races	206,199	2.2%	3,401	2.5%		
HISPANIC OR LATINO (of any race)	800,120	8.4%	10,932	8.1%		
Mexican	486,960	5.1%	8,616	6.4%		
Puerto Rican	71,800	0.8%	629	0.5%		
Cuban	18,079	2.3%	80	0.1%		
Other Hispanic or Latino	223,281	2.3%	1,607	1.2%		
Source: US Census Bureau, 2010 Census						

All **bolded and orange** cells indicate a difference that is greater than 10% when compared to the State

Local Setting

According to the 2010 US Census Data Table 9: Hispanic or Latino, and Not Hispanic or Latino By Race, the largest population within Census Tract 9608.02 was Black or African American at 1,542 individuals and 78.2% (Table 5). The next largest populations were American Indian or Alaska Native (10.8%) and White (8.5%). The Black or African American population (78.2%) was greater than 10% different when compared to the state (21.5%) and county population (24.3%). The American Indian or Alaska Native population was greater than 10% different when compared to state populations at 10.8% in the census tract at 1.3% in the state.

The largest population within Census Tract 9611 was White with 865 individuals and 42.2%, followed by Black or African American (31.6%) and American Indian or Alaska Native (15.9%). The Black or African American population (31.6%) was greater than 10% different when compared to the state (21.5%) and county (24.3%) population, as was the Native Hawaiian and other Pacific Islander population (0.3% vs. 0.1% in the state and 0.1% in the county), the population of some other race (5.5% vs. 2.2% in the state and 2.5% in the county), two or more races (3.3% vs. 2.2% in the state and 2.5% in the county), Hispanic (11.0% vs. 8.4% in the state and 8.1% in the county), Mexican (7.2% vs. 5.1% in the state and 6.4% in the county), and other Hispanic or Latino (3.0% vs. 2.3% in the state and 1.2% in the county). The American Indian or Alaska Native population was greater than 10% when compared to the state (15.9% vs. 1.3%).

The largest population within Census Tract 9616.01 was White with 2,254 individuals and 58.5% followed by Black or African American (21.5%) and American Indian or Alaska Native (16.7%). The American Indian or Alaska Native population was greater than 10% different when compared to the state population (16.7% vs. 1.3%).

Within the one-mile project area, the largest population was Black or African American at 41% and approximately 250 individuals, followed by White (37%), and American Indian or Alaska Native (16%). The Black or African American population was greater than 10% different when compared to the state (21.5%) and county (24.3%). The American Indian or Alaska Native population was greater than 10% different when compared to the state (1.3%).

Table 2. Local Setting – Race and Ethnicity

	Project 1- N			s Tract 8.02	Census T	ract 9611	Censu 961	s Tract 6.01
Race and Ethnicity	and Ethnicity Number Percent		Number	Number Percent		Percent	Number	Percent
Total Population	606	100.0%	1,971	100.0%	2,050	100.0%	3,856	100.0%
White	225	37.0%	168	8.5%	865	42.2%	2,254	58.5%
Black or African American	250	41.0%	1,542	78.2%	653	31.6%	829	21.5%
American Indian or Alaska Native	95	16.0%	213	10.8%	325	15.9%	645	16.7%
Asian	4	1.0%	3	0.2%	20	1.0%	13	0.3%
Native Hawaiian and Other Pacific Islander	0	-	1	0.1%	7	0.3%	-	0.0%
Some other Race	16	3.0%	17	0.9%	112	5.5%	28	0.7%
Two or More Races	16	3.0%	27	1.4%	68	3.3%	87	2.3%
HISPANIC OR LATINO (of any race)	32	5.0%	47	2.4%	225	11.0%	89	2.3%
Mexican			23	1.2%	148	7.2%	55	1.4%
Puerto Rican			18	0.9%	13	0.6%	29	0.8%
Cuban			-	0.0%	2	0.1%	-	0.0%
Other Hispanic or Latino			6	0.3%	62	3.0%	5	0.1%

Source: US Census Bureau, 2010 Census

All **bolded** and orange highlighted cells indicate a difference that is greater than 10% when compared to the State All **bolded** and blue highlighted cells indicate a difference that is greater than 10% when compared to the County and State.

5.2 Age and Sex

Regional Setting

According to the 2010 US Census Data Table P 12: Sex by Age, North Carolina had a total population of 9,535,483 individuals (Table 6). The largest percentage of the total state population (63.13%) was between the ages of 18 and 64, followed by under 18 years (23.93%), and 65 years and older (13.61%).

Robeson County had a total population of 134,168 individuals. The largest percentage of the total population (61.98%) was between the ages of 18 and 64, followed by under 18 years (26.78%), and 65 years and older (11.72%). For both male and female subgroups, as well as the population overall, the population of under 5 years and under 18 years is greater than 10% different when compared to the state. This indicates the population in Robeson County trends younger than the state.

Table 3. Regional Setting- Age Groups and Sex

Subject	North Ca	arolina	Robeson County			
-	Number	Percent	Number	Percent		
Total Population:	9,535,483	100.00	134,168	100.0%		
Under 5 years:	632,040	6.63	10,222	7.6%		
Under 18 years:	2,281,635	23.93	35,927	26.8%		
18 to 64 years:	6,019,769	63.13	83,163	62.0%		
65 years and older:	1,297,652	13.61	15,721	11.7%		
Male:	4,645,492	100.00	65,243	100.0%		
Under 5 years:	322,871	6.95	5,243	8.0%		
Under 18 years:	1,167,303	25.13	18,453	28.3%		
18 to 64 years:	2,954,233	63.59	40,537	62.1%		
65 years and older:	523,956	11.28	6,253	9.6%		
Female:	4,889,991	100.00	68,925	100.0%		
Under 5 years:	309,169	6.32	4,979	7.2%		
Under 18 years:	1,114,332	22.79	17,474	25.4%		
18 to 64 years:	3,251,345	66.49	45,568	66.1%		
65 years and older:	710,123	14.52	8,825	12.8%		

Source: US Census Bureau, 2010 Census

All **bolded** and **orange** highlighted cells indicate a difference that is greater than 10% when compared to the State

Local Setting

According to the 2010 US Census Data Table P 12: Sex by Age, Census Tract 9608.02 had a population of 1,971 individuals (Table 7). The largest population was between 18 and 64 years of age, at 56.37%. The under 5 years population (9.08%) was greater than 10% different when compared to the state (6.63%) and the county (7.62%). In addition, the under 18 years population (30.44%) was greater than 10% different when compared to the state (23.93%) and the county (26.78%).

Census Tract 9611 had a population of 2,050. The largest population was between 18 and 64 years of age, at 60.78%. The under 5 years population (9.32%) was greater than 10% different when compared to the state (6.63%) and the county (7.62%). In addition, the under 18 years population (29.46%) was greater than 10% different when compared to the state (23.93%) and the county (26.78%).

Census Tract 9616.01 had a population of 3,856. The largest population was between 18 and 64 years of age, at 62.71%. The under 5 years population (7.88%) was greater than 10% different when compared to the state (6.63%). In addition, the under 18 years population (27.72%) was greater than 10% different when compared to the state (23.93%).

EJSCREEN identified an approximate population of 606 in the 1-mile surrounding the facility (Table 8). The under 5 years population (9%) was greater than 10% different when compared to the state (6.63%) and the county (7.62%).

Table 4. Local Setting- Age Groups and Sex

	Census Tra	act 9608.02	Census T	ract 9611	Census Tra	act 9616.01
	Number	Percent	Number	Percent	Number	Percent
Total Population:	1,971	100.0%	2,050	100.0%	3,856	100.0%
Under 5 years:	179	9.1%	191	9.3%	304	7.9%
Under 18 years:	600	30.4%	604	29.5%	1,069	27.7%
18 to 64 years:	1,111	56.4%	1,246	60.8%	2,418	62.7%
65 years and older:	272	13.8%	209	10.2%	373	9.7%
Male:	894	100.0%	982	100.0%	1,870	100.0%
Under 5 years:	104	11.6%	97	9.9%	165	8.8%
Under 18 years:	312	34.9%	303	30.9%	571	30.5%
18 to 64 years:	475	53.1%	599	61.0%	1,130	60.4%
65 years and older:	107	12.0%	80	8.2%	169	9.0%
Female:	1,077	100.0%	1,068	100.0%	1,986	100.0%
Under 5 years:	75	7.0%	94	8.8%	139	7.0%
Under 18 years:	288	26.7%	301	28.2%	498	25.1%
18 to 64 years:	687	63.8%	685	64.1%	1,371	69.0%
65 years and older:	153	14.2%	120	11.2%	200	10.1%

Source: US Census Bureau, 2010 Census

All **bolded** and orange highlighted cells indicate a difference that is greater than 10% when compared to the State

All **bolded** and blue highlighted cells indicate a difference that is greater than 10% when compared to the County and State.

Table 5. Project Radius- Age Groups and Sex

Cubicat	1-mile facility radius						
Subject	Number	Percent					
Total Population:	606	100.0%					
Under 5 years:	54	9.0%					
Under 18 years:	178	29.0%					
18 years +	428	71.0%					
65 years +	62	10.0%					

Source: US Census Bureau, 2010 Census All **bolded** and orange highlighted cells indicate a difference that is greater than 10% when compared to the State

All **bolded** and blue highlighted cells indicate a difference that is greater than 10% when compared to the County and State.

5.3 Disability

Regional Setting

According to the 2013-2017 American Community Survey 5-Year Estimates, Table S1810 Disability Characteristics from the US Census Bureau, the state of North Carolina had an estimated total population of 9,845,238 noninstitutionalized citizens (Table 9). Of those individuals, an estimated 13.7% (MOE +/- 0.1%) had a disability. The largest population of disabled civilians were 75 years and over (51.0%, MOE +/- 0.5%). The second largest population was the 65 years and older population at 27.2% (MOE +/- 0.3%). By race, American Indian and Alaskan Native had the highest estimated disability rate of 18.3% (MOE +/- 0.7%). Black or African American, White, and Native Hawaiian and Other Pacific Islander were the next three highest population estimates with disabilities in North Carolina, at 15.1% (MOE +/-0.2%), 14.0% (MOE +/- 0.1%), and 11.6% (MOE +/- 3%), respectively.

Robeson County had an estimated total population of 132,407 noninstitutionalized citizens. Of those an estimated, 16.6% (MOE +/- .6%) had a disability. The largest population of disabled civilians were 75 years and over (62%, MOE +/- 3.1%) followed by 65 years and older (41.2%, MOE +/-2.5%). By race, White residents had the highest estimated disability rate (18.3%, MOE 1.1%) followed by Black or African American, American Indian and Alaska Native alone, and two or more races, at 17.4% (MOE +/-1.3%), 16.9% (MOE +/- 0.9%), and 14.1% (MOE +/- 4%). All populations, excluding American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, Hispanic or Latino, Some other race alone, Under 5 years, 5 to 17 years, and 18 to 34 years displayed estimates that were greater than 10% different when compared to the state.

Table 6. Regional Setting- Disability

			North C	Carolina			Robeson County						
	To	otal	With a I	Disability	Percent wi	th a Disability	To	otal	With a	Disability		nt with a ability	
Subject	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	
Total civilian noninstitutionalized population	9,845,238	1,883	1,344,677	9,296	13.7%	0.1	132,407	248	22,033	774	16.6%	0.6	
SEX													
Male	4,734,744	2,356	644,157	5,756	13.6%	0.1	63,426	174	10,167	463	16.0%	0.7	
Female	5,110,494	1,611	700,520	5,791	13.7%	0.1	68,981	163	11,866	547	17.2%	0.8	
RACE AND HISPANIC OR LATINO ORIGIN													
White alone	6,805,260	7,679	950,044	7,928	14.0%	0.1	38,036	704	6,956	402	18.3%	1.1	
Black or African American alone	2,101,735	5,025	316,325	4,035	15.1%	0.2	31,635	236	5,500	402	17.4%	1.3	
American Indian and Alaska Native alone	114,961	1,802	20,994	862	18.3%	0.7	52,041	463	8,781	480	16.9%	0.9	
Asian alone	266,672	1,954	13,149	763	4.9%	0.3	878	55	99	47	11.3%	5.2	
Native Hawaiian and Other Pacific Islander alone	5,842	533	678	170	11.6%	3	55	50	0	28	0.0%	40	
Some other race alone	306,809	7,341	15,461	1,136	5.0%	0.3	6,610	736	252	104	3.8%	1.5	
Two or more races	243,959	5,401	28,026	1,407	11.5%	0.5	3,152	492	445	145	14.1%	4	
Hispanic or Latino	895,338	953	53,910	1,944	6.0%	0.2	11,350	47	573	145	5.0%	1.3	
AGE													
Under 5 years	603,917	730	5,099	590	0.8%	0.1	9,219	8	44	35	0.5%	0.4	
5 to 17 years	1,682,039	807	95,840	2,124	5.7%	0.1	25,035	43	1,279	195	5.1%	0.8	
18 to 34 years	2,190,572	2,241	144,807	3,125	6.6%	0.1	30,663	102	2,200	285	7.2%	0.9	
35 to 64 years	3,894,704	2,076	560,147	6,001	14.4%	0.2	49,646	158	9,801	522	19.7%	1.1	
65 to 74 years	895,249	1,047	243,488	2,801	27.2%	0.3	11,339	138	4,673	294	41.2%	2.5	
75 years and over	578,757	1,013	295,296	2,759	51.0%	0.5	6,505	183	4,036	213	62.0%	3.1	

Source: US Census Bureau, ACS 5-year Estimates (2013-2017)

All **bolded** and orange highlighted cells indicate a difference that is greater than 10% when compared to the State

Local Setting

Census Tract 9608.02 had an estimated total population of 1,709 noninstitutionalized citizens. Of those individuals, an estimated 17.5% (MOE+/- 4%) had a disability (Table 10). The largest population of disabled civilians were 75 years and over (69.6%, MOE +/- 15.3%). By race, White alone had the highest estimated disability rate of 18.4% (MOE +/- 12.5%). The following population groups had a greater than 10% difference when compared to the state and county: female, some other race alone, two or more races, Hispanic or Latino, 35 to 64 years, 75 years and over. The following populations had a greater than 10% difference when compared to the state only: total civilian noninstitutionalized population, male, white alone, Black or African American alone.

Census Tract 9611 had an estimated total population of 2,025 noninstitutionalized citizens. Of those individuals, an estimated 13.6% (MOE+/- 3.7%) had a disability. The largest population of disabled civilians were 65 to 74 years and over (36.8%, MOE +/- 15.5%). By race, American Indian and Alaska Native had the highest estimated disability rate of 27.5% (MOE +/- 14.2%). The following population groups had a greater than 10% difference when compared to the state and county: white alone, American Indian and Alaska Native alone, Asian alone, two or more races, 5 to 17 years and 18 to 34 years. The following populations had a greater than 10% difference when compared to the state only: female, 35 to 64 years, and 65 to 74 years.

Census Tract 9616.01 had an estimated total population of 3,756 noninstitutionalized citizens. Of those individuals, an estimated 11.1% (MOE+/- 2.5%) had a disability (Table 11). The largest population of disabled civilians were 75 years and over (47.3%, MOE +/- 15%). By race, White alone had the highest estimated disability rate of 17% (MOE +/- 4.4%) which is greater than 10% when compared to the state. EJSCREEN does not provide data on disability, and thus disability was not assessed for the one-mile radius

Table 7. Local Setting- Disability

			Census Tr	act 9608.02					Census	Tract 9611		
	То	tal	With a D	Disability	Percent with	n a Disability	T	otal	With a	Disability	Percent wit	h a Disability
Subject	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)
Total civilian noninstitutionalized population	1,709	185	299	75	17.5%	4	2,025	186	276	73	13.6%	3.7
SEX												
Male	842	101	128	42	15.2%	4.6	1,026	113	163	48	15.9%	4.7
Female	867	122	171	52	19.7%	5.5	999	125	113	37	11.3%	3.8
RACE AND HISPANIC OR LATINO ORIGIN												
White alone	163	57	30	24	18.4%	12.5	733	128	117	40	16.0%	6
Black or African American alone	1,337	169	231	70	17.3%	4.7	657	136	51	29	7.8%	4.7
American Indian and Alaska Native alone	129	59	23	19	17.8%	14.7	316	102	87	58	27.5%	14.2
Asian alone	8	13	0	12	0.0%	100	8	12	1	3	12.5%	41
Native Hawaiian and Other Pacific Islander alone	0	12	0	12	-	**	0	12	0	12	-	**
Some other race alone	57	64	7	10	12.3%	16.7	236	110	0	12	0.0%	12.8
Two or more races	15	21	8	11	53.3%	13	75	81	20	22	26.7%	20.6
Hispanic or Latino	57	64	7	10	12.3%	16.7	332	126	6	9	1.8%	2.8
AGE												
Under 5 years	132	50	0	12	0.0%	21.6	232	76	0	12	0.0%	13
5 to 17 years	431	79	21	19	4.9%	4.3	406	87	32	23	7.9%	5.6
18 to 34 years	265	73	18	18	6.8%	6.8	575	105	52	35	9.0%	6.4
35 to 64 years	654	78	160	51	24.5%	6.5	633	74	130	40	20.5%	6.1
65 to 74 years	112	25	20	15	17.9%	11.8	133	26	49	22	36.8%	15.5
75 years and over	115	39	80	33	69.6%	15.3	46	23	13	11	28.3%	27.5

Source: US Census Bureau, American Community Survey (5-year estimates)

All **bolded** and orange highlighted cells indicate a difference that is greater than 10% when compared to the State

All **bolded** and blue highlighted cells indicate a difference that is greater than 10% when compared to the County and State.

Table 8. Local Setting- Disability (cont'd)

			Census Ti	ract 9616.01		
	Т	otal	With a	Disability	Percent wit	h a Disability
Subject	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)
Total civilian noninstitutionalized population	3,756	370	416	96	11.1%	2.5
SEX						
Male	1,778	220	202	66	11.4%	3.6
Female	1,978	221	214	70	10.8%	3.5
RACE AND HISPANIC OR LATINO ORIGIN						
White alone	1,908	257	324	89	17.0%	4.4
Black or African American alone	968	206	20	20	2.1%	2.1
American Indian and Alaska Native alone	638	245	72	49	11.3%	6.3
Asian alone	0	12	0	12	-	**
Native Hawaiian and Other Pacific Islander alone	0	12	0	12	-	**
Some other race alone	213	165	0	12	0.0%	14.1
Two or more races	29	37	0	12	0.0%	55.1
Hispanic or Latino	310	209	17	24	5.5%	6.7
AGE						
Under 5 years	218	98	0	12	0.0%	13.8
5 to 17 years	861	195	35	37	4.1%	4.2
18 to 34 years	803	147	0	12	0.0%	4
35 to 64 years	1,366	156	199	70	14.6%	5.2
65 to 74 years	246	75	58	36	23.6%	13.2
75 years and over	262	77	124	52	47.3%	15

5.4 Poverty

Regional Setting

According to the Census Table S1701, Poverty Status in the Past 12 Months, 2013-2017 American Community Survey 5-Year Estimates, from the US Census Bureau, North Carolina had an estimated population of 9,783,738, with 16.1% (MOE +/- 0.2%) below the poverty level (Table 12). Across all subjects, Some Other Race had the highest percent living below the poverty level at 32.0% (MOE +/- 1.4%). The next three subjects with the highest poverty level were Hispanic or Latino at 30.1% (MOE +/- .8%), American Indian and Alaska Native at 26.2% (MOE +/- 1.5%), and Black or African American at 24.9% (MOE +/- .4%). The age group with the highest population below poverty was under 18 (22.9%, MOE +/- 0.6%), followed by 18 to 64 (15.3%, MOE +/- 0.2%).

Robeson County had an estimated population of 130,706 with 29.2% (MOE +/-1.3%) living below the poverty level. Across all subjects, Some Other race had the highest percent living below the poverty level at 44.1% (MOE +/- 7.4%). The next three subjects with the highest poverty level were Under 18 at 42.1% (MOE 2.2%), Hispanic or Latino at 41.6% (MOE +/- 4.7%), and Black or African American at 36.7 (MOE +/- 2%). All subject groups had a greater than 5% difference when compared to the state, except for Native Hawaiian and Other Pacific Islander.

Table 9. Regional Setting- Poverty

			North C	arolina					Robeson	County		
	То	tal	Below po	verty level		t below y level	То	tal	Below pov	verty level	Percent poverty	
Subject	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-
Population for whom poverty status is determined	9,783,738	1,751	1,579,871	17,833	16.1%	0.2	130,706	623	38,182	1,667	29.2%	1.3
AGE						0.4						
Under 18	2,256,186	1,865	516,821	9,185	22.9%	0.6	33,707	183	14,202	758	42.1%	2.2
18 to 64	6,053,546	1,090	923,859	9,663	15.3%	0.2	79,155	598	20,769	1,062	26.2%	1.3
65 years and over	1,474,006	881	139,191	2,754	9.4%	0.2	17,844	239	3,211	256	18.0%	1.4
SEX												
Male	4,733,269	2,259	694,126	9,539	14.7%	0.2	62,722	282	17,208	921	27.4%	1.4
Female	5,050,469	2,443	885,745	10,217	17.5%	0.2	67,984	419	20,974	928	30.9%	1.3
RACE AND HISPANIC OR LATINO ORIGIN												
White	6,766,691	7,591	845,573	13,639	12.5%	0.2	37,263	839	7,741	781	20.8%	1.9
Black or African American	2,077,559	4,736	517,071	8,162	24.9%	0.4	30,958	373	11,351	661	36.7%	2.0
American Indian and Alaska Native	114,751	1,804	30,017	1,757	26.2%	1.5	51,937	468	14,967	1,079	28.8%	2.0
Asian	262,596	1,970	33,282	2,248	12.7%	0.9	874	55	284	123	32.5%	13.8
Native Hawaiian and Other Pacific Islander	5,886	537	1,097	297	18.6%	4.9	55	50	-	28	0.0%	40.0
Some other Race	305,431	7,334	97,609	5,276	32.0%	1.4	6,516	730	2,971	621	44.1%	7.4
Two or more races	240,824	5,455	55,222	2,570	22.9%	1	3,103	495	968	258	31.2%	6.4
Hispanic or Latino	894,810	1,312	268,985	7,035	30.1%	0.8	11,197	83	4,653	526	41.6%	4.7
All individuals below:												
50 percent of poverty level	688,118	10,757					17,199	1,351				
125 percent of poverty level	2,094,292	20,441					48,025	1,615				
150 percent of poverty level	2,596,452	22,139					56,948	1,637				
185 percent of poverty level	3,291,075	23,713					68,119	1,805				
200 percent of poverty level	3,571,557	25,056					72,223	1,891				
Source: US Census, ACS 5-year	r Estimates 2	2013-2017. All	orange and	bolded cells	indicate a dif	ference of gr	reater than 5°	% increase w	hen compare	ed to the stat	e.	

Local Setting

Census Tract 9608.02 had an estimated population of 1,678. Of this population, 41.2% (MOE 7.5%) were estimated to be below the poverty level (Table 13). The largest age group living under the poverty level was under 18, at 58.8% (MOE +/-12%). The largest racial group was Asian at 100% (MOE +/- 100%). The following groups were greater than 5% different when compared to both the county and the state: overall population, under 18 years, 18 to 64 years, male, female, white, Black or African American, American Indian and Alaska Native, Asian. 65 years and older was greater than 5% different when compared just to the state.

Census Tract 9611 had an estimated population of 2,025. Of this population, 46% (MOE +/-8.1%) were estimated to be below the poverty level. The largest age group living under the poverty level was Under 18, at 65.2% (MOE 11.8%). The largest racial group was Black or African American at 62.7% (MOE +/- 12.3%). All population groups, except for American Indian and Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and two or more races had an estimate that was greater than 5% different when compared to both state and county estimates.

Census Tract 9616.01 had an estimated population of 3,736. Of this population, 29.7% (MOE 8%) were estimated to be below the poverty level (Table 14). The largest age group living under the poverty level was 18 to 64, at 42.5% (MOE +/-15.6%). The largest racial group was American Indian and Alaska Native at 49.7% (MOE +/- 21.4%). The following groups were greater than 5% different when compared to both the county and the state: 65 years and over, White, American Indian and Alaska native. The following groups were greater than 5% different when compared just to the state: overall population, under 18, 18 to 64, male, female, and some other race.

Table 10. Local Setting- Poverty

			Census Tra	act 9608.02			Census Tract 9611						
Subject	То	tal	Below po	verty level		Percent below poverty level		Total		Below poverty level		t below ty level	
	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	
Population for whom poverty status is determined	1,612	176	627	147	38.9%	8.6	2,093	193	975	198	46.6%	7.3	
AGE													
Under 18 years	521	99	302	98	58.0%	14.7	662	117	443	122	66.9%	11.8	
18 to 64 years	882	120	293	65	33.2%	7.5	1,255	122	503	110	40.1%	7.7	
65 years and over	209	34	32	19	15.3%	8.6	176	28	29	20	16.5%	9.8	
SEX													
Male	788	112	269	76	34.1%	8.6	1,103	144	495	123	44.9%	8.3	
Female	824	103	358	94	43.4%	10.8	990	108	480	103	48.5%	7.5	
RACE AND HISPANIC OR LATINO ORIGIN													
White	128	51	24	19	18.8%	11.4	760	152	314	129	41.3%	12.7	
Black or African American	1,297	166	519	133	40.0%	8.8	601	121	399	127	66.4%	12.8	
American Indian and Alaska Native	89	46	61	47	68.5%	28.9	344	86	117	52	34.0%	12.8	
Asian	23	30	23	30	100.0%	64.2	16	19	0	12	0.0%	76.9	
Native Hawaiian and Other Pacific Islander	0	12	0	12	-	**	0	12	0	12	-	**	
Some other race	60	64	0	12	0.0%	39.7	285	129	145	104	50.9%	23	
Two or more races	15	21	0	12	0.0%	79.5	87	77	0	12	0.0%	31.9	
Hispanic or Latino origin (of any race)	60	64	0	12	0.0%	39.7	447	146	238	124	53.2%	16.4	
All individuals below:													
50 percent of poverty level	195	80					332	136					
125 percent of poverty level	759	145					1,122	193					
150 percent of poverty level	844	141					1,264	199					
185 percent of poverty level	1,026	157					1,480	205					
200 percent of poverty level	1,053	162					1,480	205					

Source: US Census, 2013-2017 ACS 5-Year Estimates. All orange and bolded highlighted cells indicate a difference that is greater than 5% when compared to the state. All bolded and blue highlighted cells indicate a difference that is greater than 5% when compared to the county and the state.

Table 11. Local Setting- Poverty (cont'd)

	Census Tract 9616.01					
Subject	Total		Below poverty level		Percent below poverty level	
	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-
Population for whom poverty status is determined	3,736	358	1,110	315	29.7%	8
AGE						
Under 18	1,059	212	450	191	42.5%	15.6
18 to 64	2,169	224	538	152	24.8%	7
65 years and over	508	77	122	61	24.0%	11.9
SEX						
Male	1,768	213	498	172	28.2%	9.1
Female	1,968	215	612	179	31.1%	8.4
RACE AND HISPANIC OR LATINO ORIGIN						
White	1898	250	479	168	25.2%	7.6
Black or African American	968	206	218	135	22.5%	13.6
American Indian and Alaska Native	628	238	312	163	49.7%	21.4
Asian	0	12	0	12	0.0%	0
Native Hawaiian and Other Pacific Islander	0	12	0	12	0.0%	0
Some other Race	213	165	101	105	47.4%	35.9
Two or more races	29	37	0	12	0.0%	55.1
Hispanic or Latino	310	209	101	105	32.6%	33.3
All individuals below:						
50 percent of poverty level	552	228				
125 percent of poverty level	1,544	365				
150 percent of poverty level	1,702	358				
185 percent of poverty level	2,145	369				
200 percent of poverty level	2,225	375				

Source: US Census, 2013-2017 ACS 5-Year Estimates. All **orange and bolded** highlighted cells indicate a difference that is greater than 5% when compared to the state. All **bolded** and blue highlighted cells indicate a difference that is greater than 5% when compared to the county and the state.

5.5 Household Income

Regional Setting

The following table (Table 15) was compiled using data from the Census Table S1901, Income in the Past 12 Months (in 2017 Inflation-Adjusted Dollars) 2013-2017 American Community Survey 5-Year Estimates for North Carolina. The North Carolina household income range with the highest percent was \$50,000 to \$74,999, at 18.1%. The median household income was \$50,320 and the mean income was \$70,523. The household income range for Robeson County with the highest percent was \$15,000 to \$24,999 at 15.2%. The median income was \$32,407 and the mean income was \$46,080. All income ranges less than \$35,000 had percentages that were more than 10% higher than the state ranges.

Table 12. Regional Setting- Household Income

	North	Carolina	Robeson County		
	Hous	eholds	Households		
Subject	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	
Total	3,874,346	8,789	46,163	427	
Less than \$10,000	7.3%	0.1	14.5%	0.9	
\$10,000 to \$14,999	5.8%	0.1	9.9%	0.7	
\$15,000 to \$24,999	11.1%	0.1	15.2%	0.9	
\$25,000 to \$34,999	11.0%	0.1	13.4%	0.8	
\$35,000 to \$49,999	14.5%	0.1	14.9%	8.0	
\$50,000 to \$74,999	18.1%	0.1	14.7%	0.9	
\$75,000 to \$99,999	11.8%	0.1	8.8%	0.7	
\$100,000 to \$149,999	11.7%	0.1	6.0%	0.6	
\$150,000 to \$199,999	4.4%	0.1	1.5%	0.3	
\$200,000 or more	4.3%	0.1	1.2%	0.2	
Median income (dollars)	50,320	204	32,407	916	
Mean income (dollars)	70,523	287	46,080	1,625	

Source: US Census, ACS 5-year Estimates 2013-2017. All **orange and bolded** cells indicate a difference of greater than 10% increase when compared to the state.

Local Setting

In Census Tract 9608.02, the household income range with the highest percent was less than \$10,000 at 24.2% (MOE +/- 6.2%). The median household income was \$25,926 and the mean income was \$45,330. The less than \$10,000 and \$10,000 to \$14,999 income ranges were greater than 10% different compared to the county and the state. The \$15,000 to \$24,999 and \$25,000 to \$34,999 income ranges were greater than 10% different compared to the state (Table 16).

In Census Tract 9611, the household income range with the highest percent was between \$15,000 and \$24,999 at 20.7% (MOE +/- 5.3%). The median household income was \$26,435 and the mean income was \$32,185. The \$10,000 to \$14,999, \$15,000 to \$24,999, and \$25,000 to \$34,999 income ranges were greater than 10% different compared to the county and the state. The less than \$10,000 income range was greater than 10% different compared to the state.

In Census Tract 9616.01, the household income range with the highest percent was between \$50,000 and \$74,999 at 18.3% (MOE +/- 5.8%). The median household income was \$26,435 and the mean income was \$32,185. The \$10,000 to \$14,999, \$15,000 to \$24,999, and \$25,000 to \$34,999 income ranges were greater than 10% different compared to the county and the state. The less than \$10,000 income range was greater than 10% different compared to the state.

In the one-mile facility radius, the household income range with the highest percent was \$25,000-\$50,000 at 28%, followed by less than \$15,000 at 25% (Table 17).

Table 13. Local Setting- Household Income

	Census Tract 9608.02		Census Tract 9611		Census Tract 9616.01	
	Households		Households		Households	
Subject	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)
Total	616	55	653	48	1,362	89
Less than \$10,000	24.2%	6.2	15.6%	4.5	12.4%	4.6
\$10,000 to \$14,999	11.4%	4.3	11.3%	4.2	11.7%	4.1
\$15,000 to \$24,999	12.8%	5.2	20.7%	5.3	17.8%	5.2
\$25,000 to \$34,999	13.5%	5.1	17.3%	5.4	15.6%	4.9
\$35,000 to \$49,999	14.3%	4.9	14.5%	4.3	14.9%	4.7
\$50,000 to \$74,999	14.6%	4.9	13.9%	4.1	18.3%	5.8
\$75,000 to \$99,999	2.9%	2.8	4.1%	2.8	3.3%	2.6
\$100,000 to \$149,999	3.6%	2.7	2.5%	2.1	6.0%	3.1
\$150,000 to \$199,999	1.0%	1.4	0.0%	4.9	0.0%	2.4
\$200,000 or more	1.8%	1.9	0.0%	4.9	0.0%	2.4
Median income (dollars)	25,926	4,946	26,435	3,433	31,853	2,846
Mean income (dollars)	45,330	16,277	32,185	2,826	38,063	4,400

Source: US Census, 2013-2017 ACS 5-Year Estimates.

All **orange and bolded** highlighted cells indicate a difference that is greater than 10% when compared to the state.

All **bolded** and blue highlighted cells indicate a difference that is greater than 10% when compared to the county and the state.

Table 14. Project Radius- Household Income

	1-mile facility radius				
Subject	Estimate MOE Percent				
Total:	197	78	100%		
Less than \$15,000	50	67	25%		
\$15,000-\$25,000	30	58	15%		
\$25,000-\$50,000	55	78	28%		
\$50,000-\$75,000	35	61	18%		
\$75,000 or more	26	64	13%		
Source: EJSCREEN. US Census, 2013-2017 ACS 5-year					

Estimates

Per Capita Income

Per Capita Income data was obtained through the Census Table B19301, Per Capita Income in the Past 12 Months (In 2017 Inflation-Adjusted Dollars), 2013-2017 American Community Survey 5-Year Estimates. The North Carolina per capita income estimate is \$28,123. The Robeson County estimate is \$17,161 and the estimates for the census tracts are: \$17,366 (9608.02), \$11,566 (9611), and \$14,687 (9616.01). Both the county and the census tracts had a significantly lower Per Capita Income compared to the state (Table 18).

The EJSCREEN analysis also provided per capita income estimates for the one-mile buffer surrounding the NC Renewable Power site. The per capita income estimate for the populations inside the one-mile buffer was \$16,644, also lower than the state and the county.

Table 15. Per Capita Income

Location	Subject		Per Capita Income in Last 12 Months (Dollars)		
North Carolina	Par Canita Incomo	Estimate	28,123		
North Carolina	Per Capita Income	Margin of Error +/-	130		
Robeson County	Por Canita Incomo	Estimate	17,161		
Robeson County	Per Capita Income	Margin of Error +/-	621		
O T+ 0000 04	Des Conite Income	Estimate	7,756		
Census Tract 9608.01	Per Capita Income	Margin of Error +/-	977		
O T 10000 00	D. O. de la com	Estimate	17,366		
Census Tract 9608.02	Per Capita Income	Margin of Error +/-	5,923		
Canava Treat 0010	Day Cavita Income	Estimate	20,267		
Census Tract 9610	Per Capita Income	Margin of Error +/-	4188		
	Day Cavita Income	Estimate	11,566		
Census Tract 9611	Per Capita Income	Margin of Error +/-	1,344		
	B 0 11 1	Estimate	14,687		
Census Tract 9616.01	Per Capita Income	Margin of Error +/-	1743		
On a Mila	Por Capita Incomo	Estimate	16,644		
One Mile	Per Capita Income	Margin of Error +/-	-		
Source: US Census, 2013-2017 ACS 5-Year Estimates					

6 Limited English Proficiency (LEP)

The following table (Table 19) was prepared using data from Census Table B16001, Language Spoken at Home by Ability to Speak English for the population 5 years and over, 2011-2015 American Community Survey 5-Year Estimates. Per the Safe Harbor Guidelines, should an LEP Group be identified during the permit application process, written translations of vital documents for each eligible LEP language group that constitutes 5% or includes 1,000 members (whichever is less) of the population of persons eligible to be served or likely to be affected or encountered. If there are fewer than 50 persons in a language group that reaches the 5% trigger, then DEQ will not translate vital written materials, but instead will provide written notice in the primary language of the LEP language group of the right to receive competent oral interpretation of those written materials, free of cost. The safe harbor provisions apply to the translation of written documents only. Safe harbor guidelines are per the U.S. EPA guidance for LEP persons and implemented by DEQ when deemed appropriate.

The following seven potential LEP language groups were identified during this initial screening of demographic data: Spanish or Spanish Creole, French, Vietnamese, and Other Asian languages (Table 19). However, none of the language groups identified reached the 5% threshold. If larger LEP groups are identified during the permit process or specific translation requests are received, DEQ will revisit the Safe Harbor Guidelines.

Table 16. Limited English Proficiency

	Census Tract 9608.02		Census Tract 9611		Census Tract 9616.01	
LANGUAGE SPOKEN AT HOME	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Total:	1,783	+/-232	1,865	+/-204	3,428	+/-338
Speak only English	1,747	+/-232	1,663	+/-184	3,237	+/-349
Spanish or Spanish Creole:	36	+/-46	183	+/-98	108	+/-84
Speak English "very well"	26	+/-38	93	+/-58	35	+/-42
Speak English less than "very well"	10	+/-11	90	+/-73	73	+/-75
French (incl. Patois, Cajun):	0	+/-12	9	+/-12	0	+/-12
Speak English "very well"	0	+/-12	0	+/-12	0	+/-12
Speak English less than "very well"	0	+/-12	9	+/-12	0	+/-1
Vietnamese:	0	+/-12	0	+/-12	61	+/-53
Speak English "very well"	0	+/-12	0	+/-12	18	+/-26
Speak English less than "very well"	0	+/-12	0	+/-12	43	+/-37
Other Asian languages:	0	+/-12	10	+/-16	0	+/-12
Speak English "very well"	0	+/-12	0	+/-12	0	+/-12
Speak English less than "very well"	0	+/-12	10	+/-16	0	+/-12
Source: US Census, ACS 5-year estimates 2011-2015						

7 County Health

The University of Wisconsin Population Health Institute, in collaboration with the Robert Wood Johnson Foundation, calculated a County Health Rankings system for all the States in the United States (www.countyhealthrankings.org). This ranking is based on health outcomes (such as lifespan and self-reported health status) and health factors (such as environmental, social and economic conditions). According to this 2021 report, out of all 100 counties in North Carolina (with 1 indicating the healthiest), Robeson County ranks 100th in health factors and 100th in health outcomes (Figure 3).

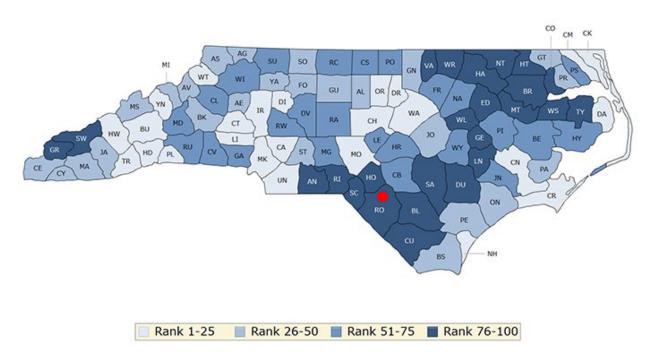


Figure 3. County Health Rankings for Health Factors in North Carolina provided by University of Wisconsin Public Health Institute.

According to the NC DEQ Community Mapping System Environmental Justice Tool, all causes of death (per 100,000 deaths) identified showed a higher rate in Robeson County than the state (Table 20).

Table 17. Health Outcomes

Cause of Death	Robeson County	North Carolina
Cancer	191.7	169.1
Heart Disease	218.1	163.7
Stroke	48.1	43.1
Cardiovascular Disease	281.7	221.9
Diabetes	46.5	22.8
Source: NCDEQ 2020 EJ Tool		

8 Local Sensitive Receptors

The Environmental Protection Agency suggests that sensitive receptors include, but are not limited to, hospitals, schools, daycare facilities, elderly housing, and convalescent facilities. These are areas where the occupants are more susceptible to the adverse effects of exposure to toxic chemicals, pesticides, and other pollutants. Extra care must be taken when dealing with contaminants and pollutants in close proximity to areas recognized as sensitive receptors. For instance, children and the elderly may have a higher risk of developing asthma from elevated levels of certain air pollutants than a healthy individual aged between 18 and 64.

Within the one-mile project radius, the following potential sensitive receptors were identified (Figure 4):

- Robeson Community College Emergency Services Training Center
- Christian Faith Center Lumberton

Additional sensitive receptors may be identified during the permit application process.

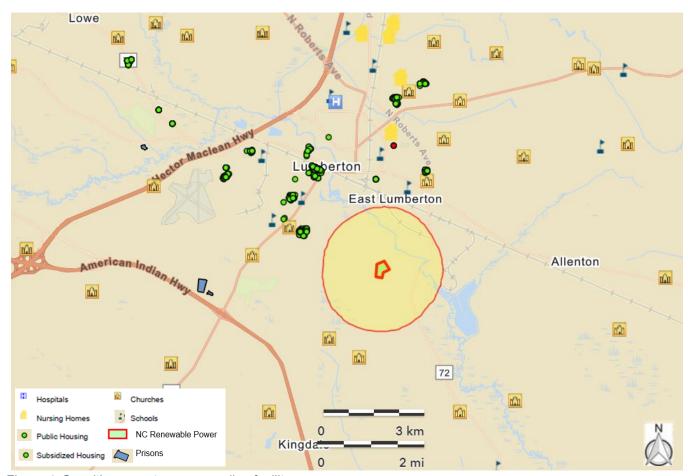


Figure 4. Sensitive receptors surrounding facility.

9 Local Industrial Sites

Within the one-mile radius, there are 21 facility permits or incident reports (as of September 3, 2021). The 21 facility permits and incident reports include:

- 3 air quality permit sites
- 4 NPDES wastewater treatment facility permits
- 2 coal ash structural fills
- 2 permitted solid waste landfills
- 2 inactive hazardous sites
- 1 pre-regulatory landfill site
- 2 brownfield program sites
- 1 hazardous waste sites
- 2 aboveground storage tank incidents
- 1 underground storage tank active facilities
- 1 land use restrictions or notices

It is important to note that there may be multiple permits associated with one facility and incidents vary in size, significance, and timeframe.

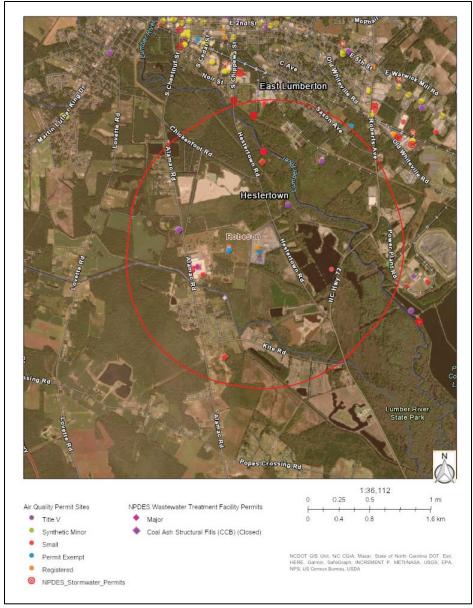


Figure 5. Permitted facilities and incidents with the 1-mile radius surrounding the NC Renewable Power facility

10 Conclusion

Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies (US EPA). This report examined the demographic and environmental conditions in North Carolina, Robeson County, Census Tracts 9608.02, 9611, 9616.01, and the one-mile radius around the NC Renewable Power facility. Potential emissions rates outlined in the permit application and county level health data were also included, as well as data from the NCDEQ Community Mapping System.

It is important to keep in mind that based on the available data, the following limitations of this report: census data is from 2010 and may be outdated; the more recent census data through 2017 are estimates; EJSCREEN does not provide all of the data categories that were used in this analysis so the census tract and county data cannot be compared to the radius used surrounding the facility boundary for all criteria; census tracts can still be large areas and do not allow for exact locations of each population; some of the census tracts slightly overlap with the one-mile radius; and the Department cannot determine which populations are in that small amount of overlap around the facility.

The Department assessed the available demographic and socioeconomic data of the communities surrounding the NC Renewable Power facility in regard to its permit application. The racial composition of the immediate area shows a much larger proportion of Black or African American residents (41% in the one-mile buffer) when compared to the county and the state and a significantly larger proportion of American Indian or Alaska Native residents (16% in the one-mile buffer) compared to the state. The census tracts and county also show a higher proportion of Black or African American and American Indian or Alaska Native residents when compared to the state.

In addition, disability estimates for almost every population group at the census tract level were significantly higher than the state, and in many cases, the county rates as well. Poverty status is high in most surrounding census tract levels, with census tracts displaying overall levels of 41.2% (9608.02), 46% (9611), 29.7% (9616.01) compared to 16.1% in the state and 29.2% in Robeson County. Household income analysis found that in all census tracts, as well as Robeson County, there were significantly more people in the bottom four income brackets when compared to the state. Analysis of the one-mile buffer area around the facility showed that the majority of households have an income below \$50,000. From a health perspective, out of all 100 counties in North Carolina (with 1 indicating the healthiest), Robeson County ranks 100th in health factors and 100th in health outcomes and demonstrates a higher rate of all causes of death than the state.

Based on the results from this EJ Report, the Department provided the following outreach strategies to ensure meaningful engagement from this community:

- Provided the opportunity to make comments by phone during the public hearing;
- Set up and monitored a dedicated phone line for commenters to leave comments by voicemail at their convenience;

- Communicated with community leaders, local tribal officials, and community-based organizations about the facility either by phone or virtually;
- Prepared and distributed an easy-to-read one-page overview describing the draft air quality permit and how to provide public comment;
- Connected with officials from the city of Lumberton and Robeson County, including the local health department;
- Consulted the list of sensitive receptors when distributing the one-page overview.