

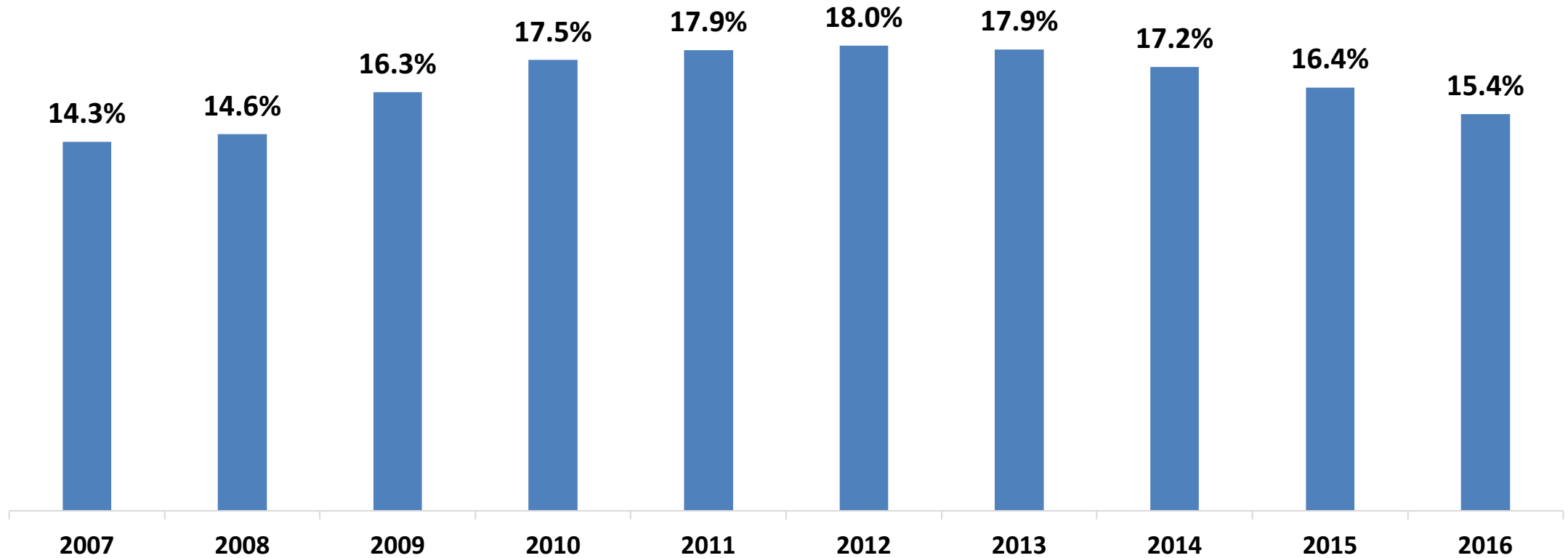
# Community Solar in the Southeast for Low Income Customers

## Program Design

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# 2016 - 1,563,100 in NC living in poverty

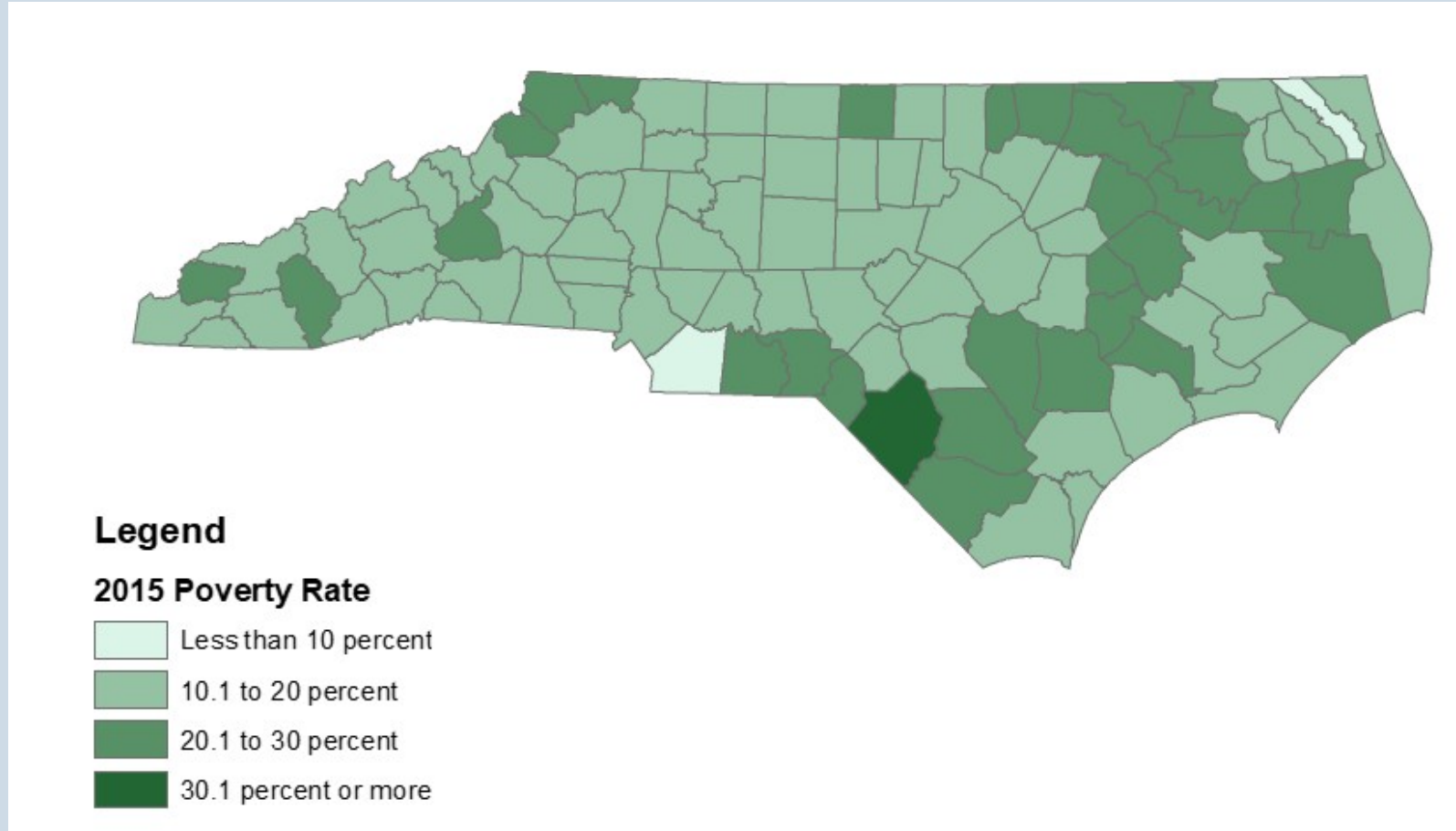
Poverty Rate, by Year



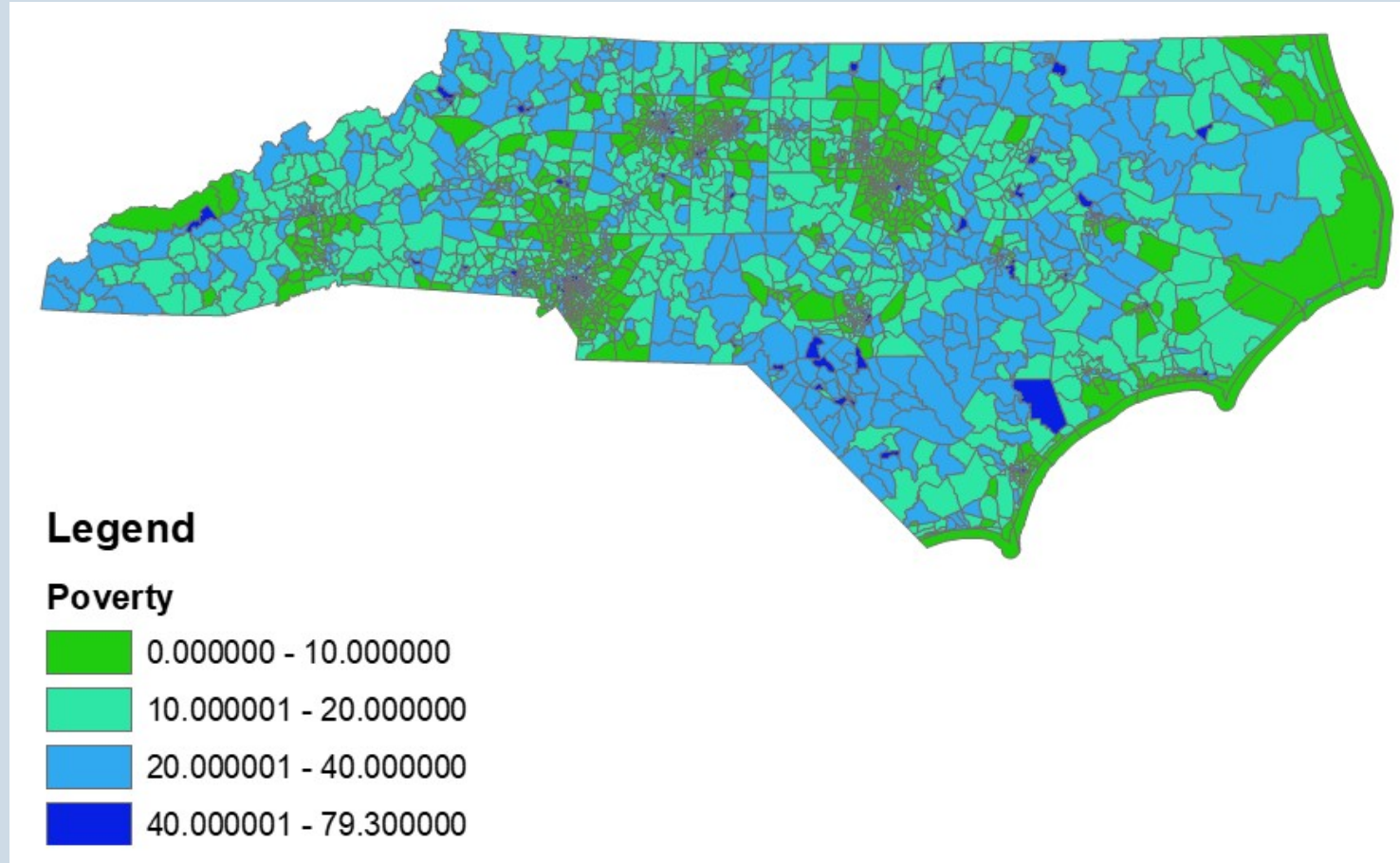
# 2016 Federal Poverty Guidelines

<b>Household Size</b>	<b>100%</b>	<b>133%</b>	<b>150%</b>	<b>200%</b>	<b>250%</b>	<b>300%</b>	<b>400%</b>
1	\$11,880	\$15,800	\$17,820	\$23,760	\$29,700	\$35,640	\$47,520
2	16,020	21,307	24,030	32,040	40,050	48,060	64,080
3	20,160	26,813	30,240	40,320	50,400	60,480	80,640
4	24,300	32,319	36,450	48,600	60,750	72,900	97,200
5	28,440	37,825	42,660	56,880	71,100	85,320	113,760

# 30 Counties had Poverty Rates Above 20 Percent

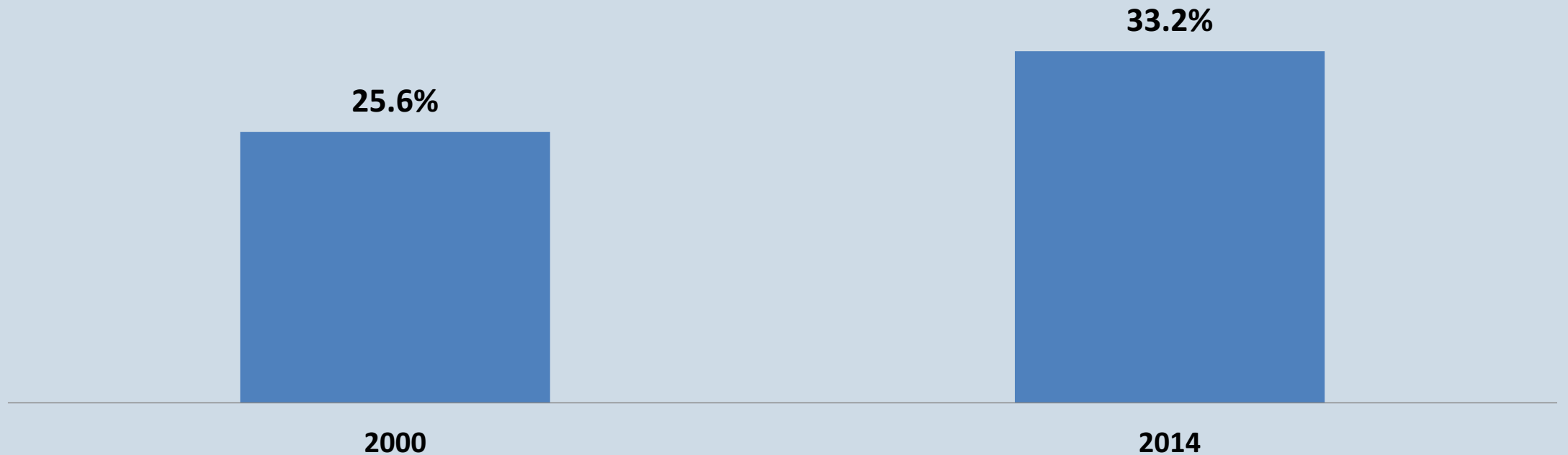


# Poverty is increasingly concentrated



# North Carolina has the 2<sup>nd</sup> highest rate of working poor in the nation

*Share of Workers Earning Poverty-Level Wages*



# The Home Energy Affordability GAP in NC 2016

Fisher, Sheehan & Colton; Public Finance and general Economics; Belmont, MS April 2017

Poverty Level	Home Energy Burden	Number of Households
Below 50%	29%	286,539
50 -100%	16%	371,583
100 – 125%	11%	207,464
125 – 150%	9%	205,764
150 – 185%	7%	274,888
185 – 200%	6%	109,098
	Total < 200%	1,455,336

# Examples of Household Income

<b>W Family</b>	<b>Annual Income: \$12,300</b>
<b>Age – 74</b>	<b>Electric Bill \$2,086.44</b>
<b>Race – African American</b>	<b>Energy Burden 16.96%</b>
<b>Marital Status – Divorce</b>	<b>Amount Net Monthly \$24.80</b>
<b>Gender – Male</b>	<b>\$70,700 Area Median Income</b>
<b>Client Type – Homeowner (with mortgage)</b>	<b>30% = \$14,850</b>
<b>Disable – Yes</b>	<b>100% Federal Poverty \$12,060</b>
<b>Family Size: 1 Adult</b>	
<b>Work Status – Retired/Disable</b>	



# Examples of Household Income

<b>B Family</b>	<b>Annual Income: \$19,200</b>
<b>Age – 44</b>	<b>Electric Bill \$2,234.4</b>
<b>Race – African American</b>	<b>Energy Burden 11.64%</b>
<b>Marital Status – Separate</b>	<b>Amount Net Monthly \$-874.84</b>
<b>Gender – Female</b>	<b>\$70,700 Area Median Income</b>
<b>Client Type – Homeowner (with mortgage)</b>	<b>30% AMI \$19,100</b>
<b>Disable – No</b>	<b>100% Federal Poverty \$20,420</b>
<b>Family Size: 1 Adult 2 Kids</b>	
<b>Work Status – Self Employed</b>	

# Examples of Household Income

## J Family

Age – Wife: 55 Husband: 55

Race – White

Marital Status – Married

Gender – Female and Male

Client Type – Homeowner (with mortgage)

Disable – No

Family Size: 2 Adults 3 kids

Work Status: Husband works and wife is stay at home mom due to illness of one of the children.

Annual Income: \$24,108

Electric Bill \$3,062.88

Energy Burden 12.70%

Amount Net Monthly \$-597.24

\$70,700 Area Median Income

30% AMI \$22,900

100% Federal Poverty \$28,780

\*Gas Bill \$1,200 Total Energy

Burden 17.68%

# Eligibility based on income

- What is low income? Percent (%) of federal Poverty Level? Family of four 100%, 150%? Percent of Area median income (AMI)?
- LIHEAP (Low Income Home Energy Assistance Program) 130% of Federal Income Level Family of four = \$31,980
- CIP (Crisis Intervention Program) 150% of Federal Income = \$36,900
- WAP (Weatherization Assistance Program) 200% of Federal Income = \$49,200
- URP (Urgent Repair program) 50% of area median income – with half served less than 30% ami, also one of five - elderly, disabled, 5 or more, single parent, vet, lead hazard under age six. Something in house life threat or displacing.
- AMI for Wake County  $\$80,200 / 2 = \$40,100$  AMI for Northhampton  $\$39,600 / 2 = \$19,800$

Eligibility based on other factors

Shut-offs

WAP, Energy Efficiency, Urgent Repair

If a credit or subsidized rate is available how much should it be?

- What is a meaningful benefit that makes a substantive difference for low income rate payers?

20% of an average power bill?

\$10 per family member

If a credit or subsidized rate is available how should it be delivered and by whom?

Utility, State Agency, Local Agency

Annual Basis, One Time Basis

Auto Renewal vs. Reapply

Proof of Eligibility

What are we missing?

What other elements of program design should be considered?