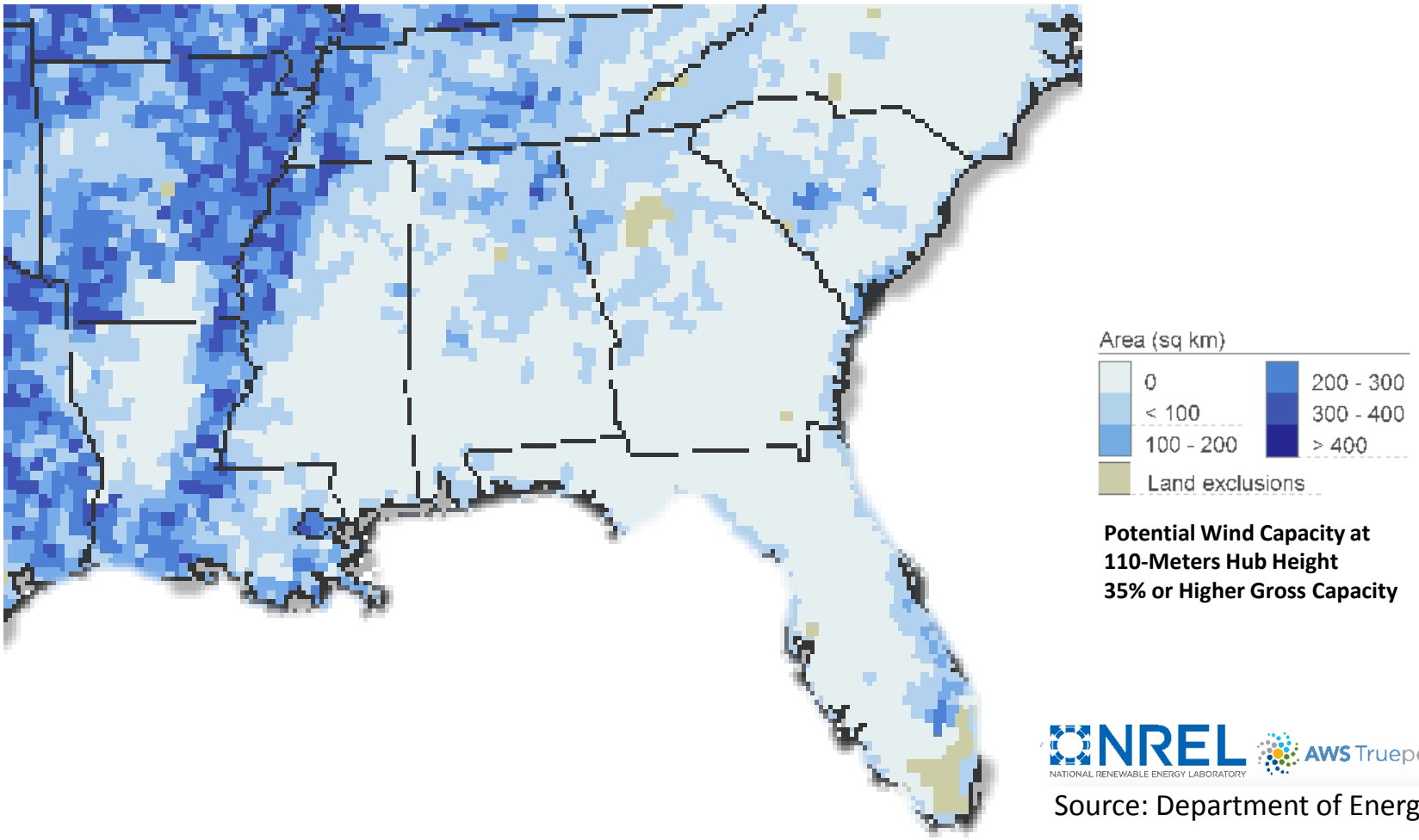
Gulf States Renewable Energy Industries Association

Renewable energy: jobs, savings, tax revenue

DEQ CPP Hearing
March 31, 2016

Louisiana Has Compelling Wind Generation Potential



Potential Wind Capacity at 110-Meters Hub Height 35% or Higher Gross Capacity

NREL NATIONAL RENEWABLE ENERGY LABORATORY AWS Truepower

Source: Department of Energy, 2014

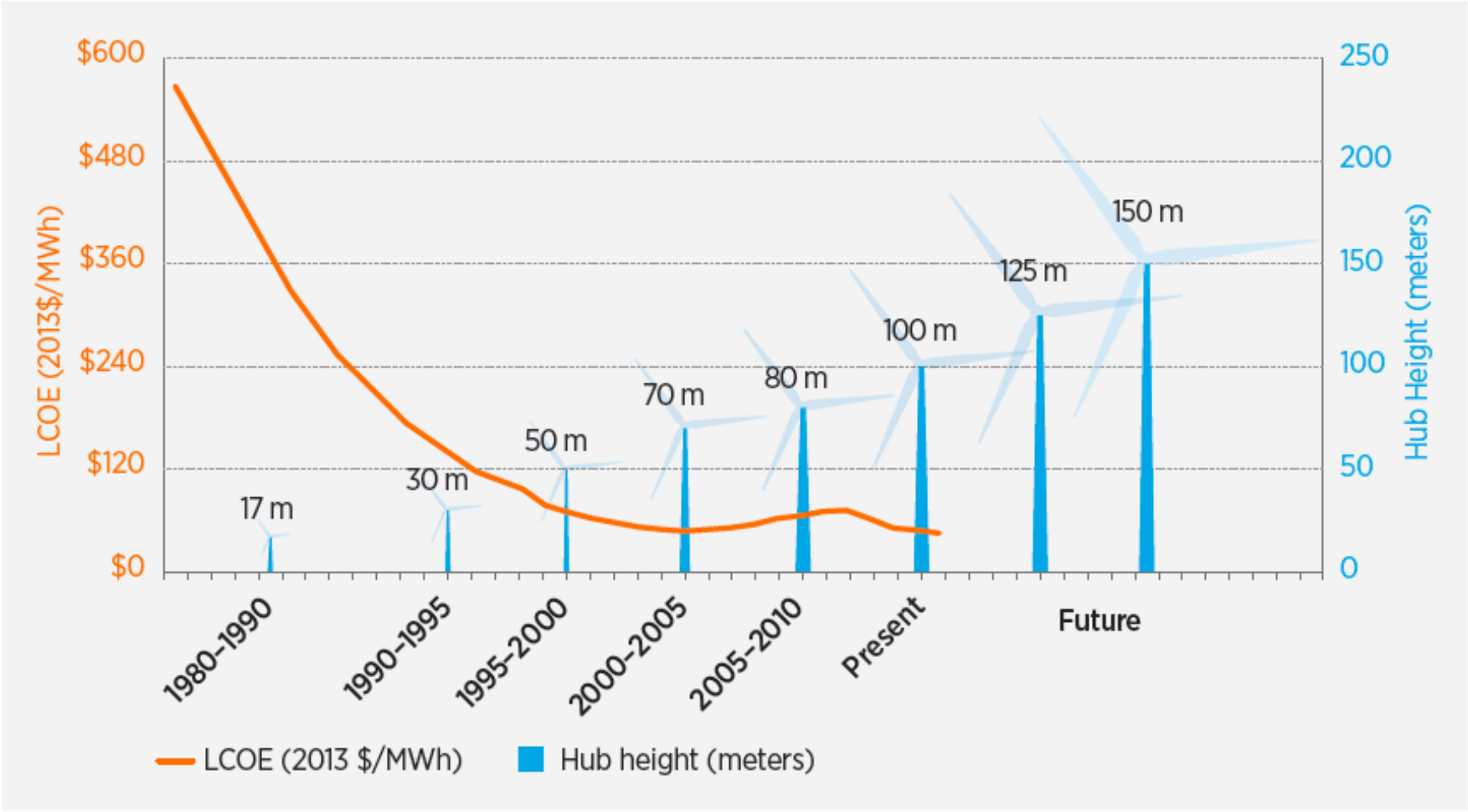
Utility Wind Energy Purchases in the South

Utility	Year Delivered	Capacity (MW)
Alabama Power	2012	404 MW
Arkansas Electric	2014	309 MW
Georgia Power	2016	250 MW
Gulf Power	2016	178 MW
SWEPCO	2011-2013	469 MW
TVA	2010-2012	1,515 MW

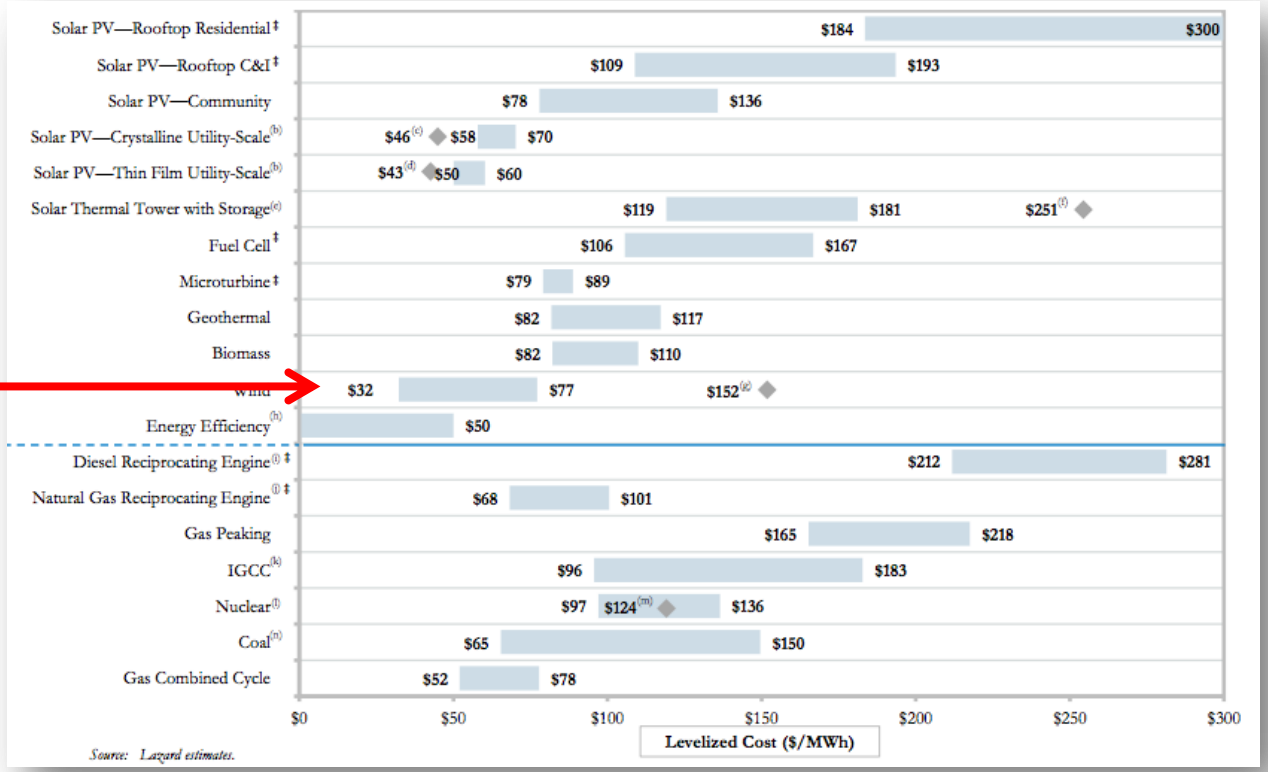
1 MW = ~300 Homes

3,125 Megawatts of Wind Energy Resources (primarily imported)

Declining Wind Power Costs



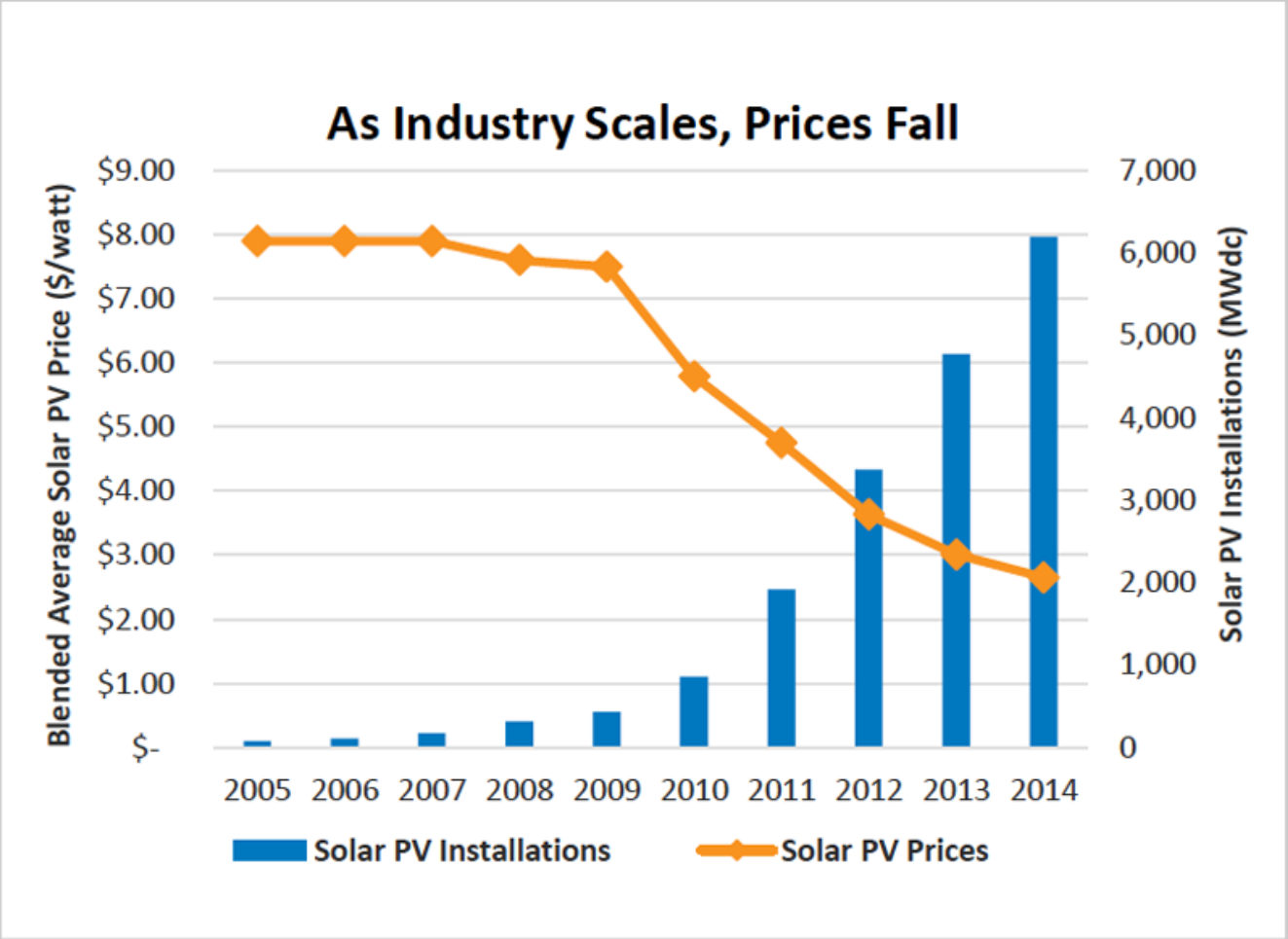
Cost Of Wind Energy



Source: Lazard Associates 2015

Unsubsidized Levelized Cost of Wind Energy in 2014:
$32-$77/MWh

Cost of Solar Power



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GTM RESEARCH

40 YEARS SEIA Solar Energy Industries Association®

Growth of Residential Solar In Louisiana

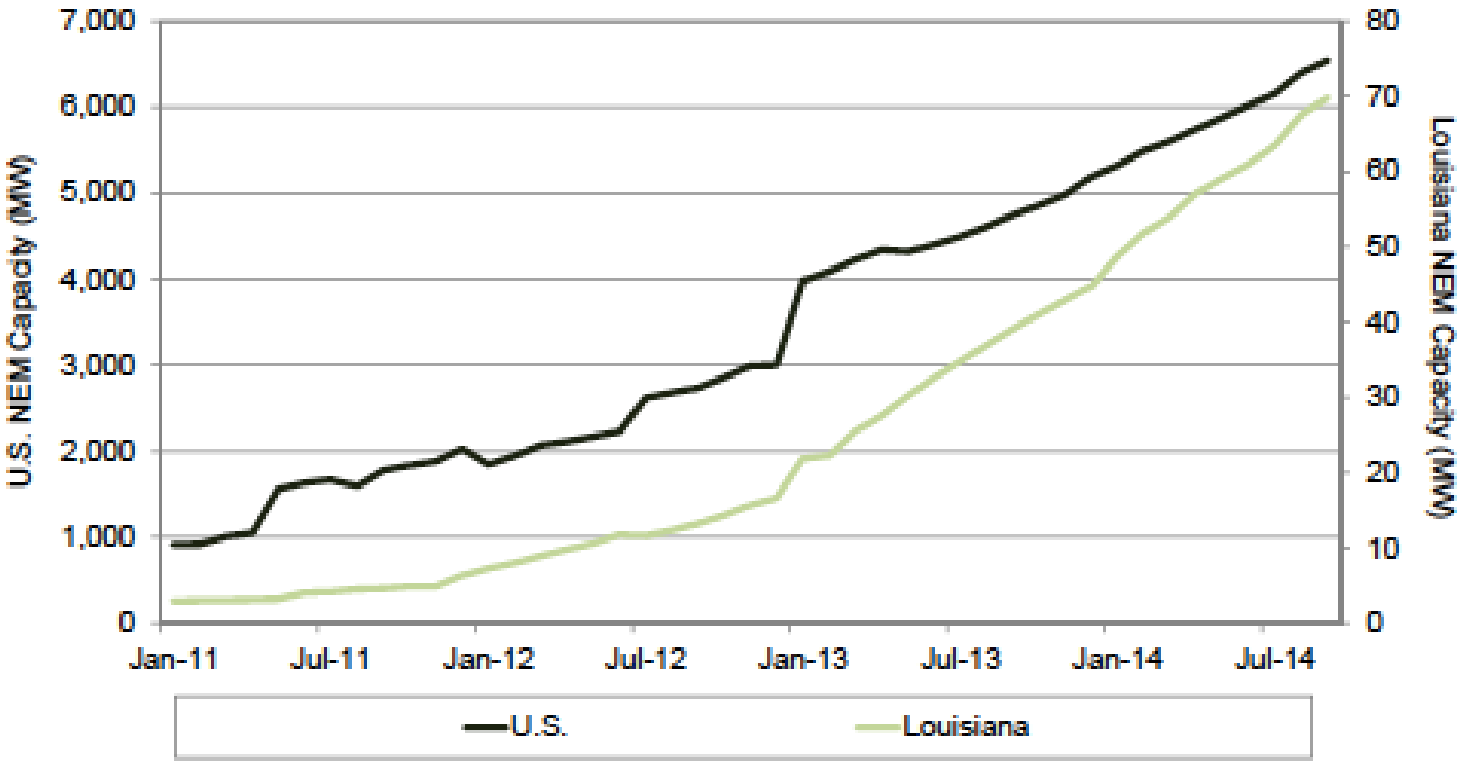


Figure 1: U.S. and Louisiana Installed NEM Capacity (MW)

Source: Energy Information Administration, Form 826.

Note: Figure above includes both LPSC-jurisdictional and non-LPSC-jurisdictional utilities.

Growth of Solar Energy Generation In Louisiana

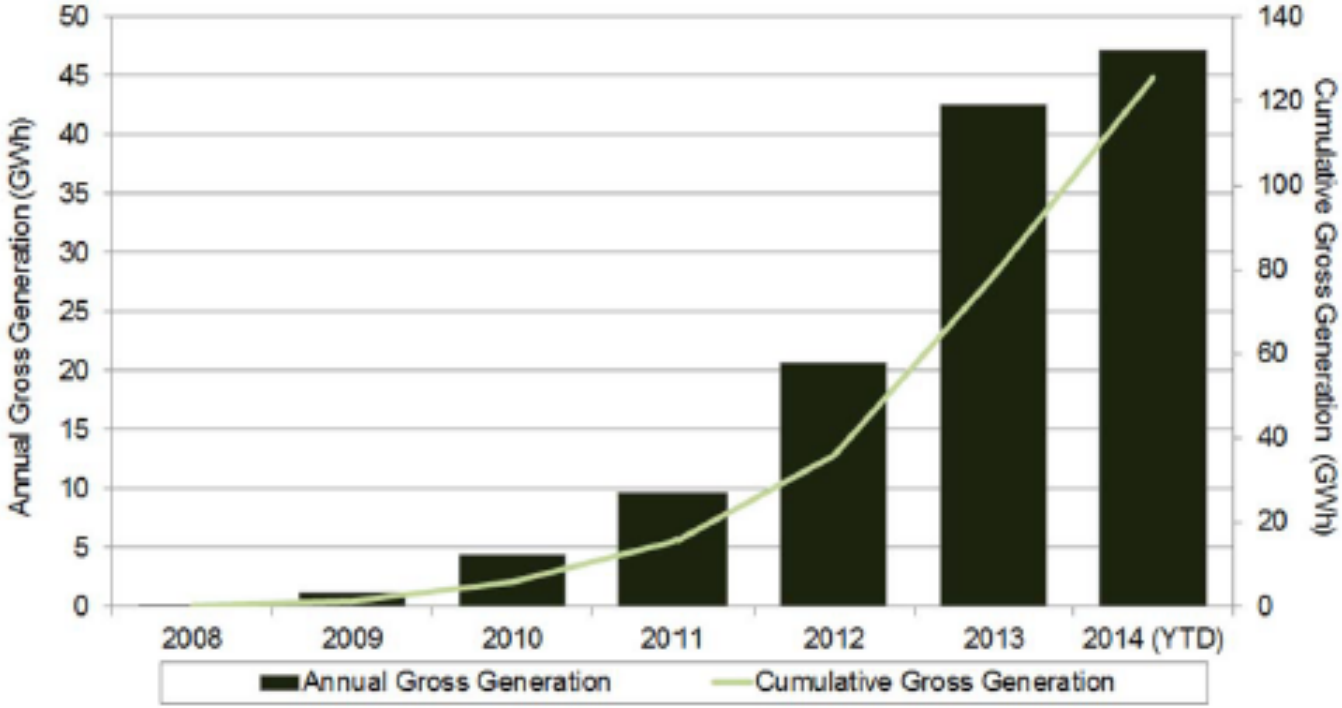
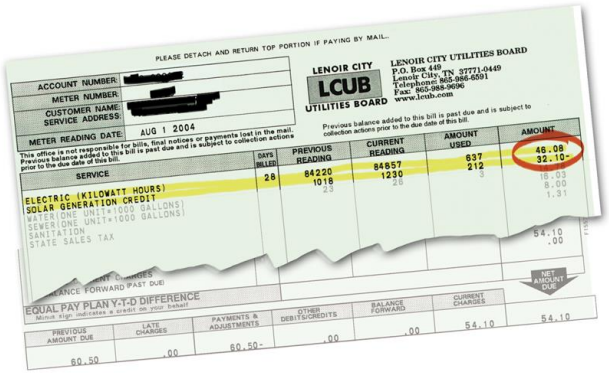


Figure 21: Estimated Louisiana NEM Gross Generation

Note: 2014 data is through July.

Renewable Energy and Tax Revenue


PLEASE DETACH AND RETURN TOP PORTION IF PAYING BY MAIL.

ACCOUNT NUMBER: [redacted]
METER NUMBER: [redacted]
CUSTOMER NAME: [redacted]
SERVICE ADDRESS:
METER READING DATE: AUG 1 2004

LENOIR CITY LCUB UTILITIES BOARD

LENOIR CITY UTILITIES BOARD
P.O. Box 449
Lenoir City, TN 37771-0449
Telephone: 865-986-6591
Fax: 865-988-9696
www.lcub.com

This office is not responsible for bills, final notices or payments lost in the mail.
Previous balance added to this bill is past due and is subject to collection actions prior to the due date of this bill.

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SERVICE	DAYS BILLED	PREVIOUS READING	CURRENT READING	AMOUNT USED	AMOUNT
ELECTRIC (KILOWATT HOURS)	28	84220	84857	637	46.08
SOLAR GENERATION CREDIT		1018	1230	212	32.10-
WATER(ONE UNIT=1000 GALLONS)		20	28	8	16.03
SEWER(ONE UNIT=1000 GALLONS)					8.00
SANITATION					1.31
STATE SALES TAX					
					54.10
					.00

BALANCE FORWARD PAST DUE)

NET AMOUNT DUE

EQUAL PAY PLAN Y-T-D DIFFERENCE
Minus (-) sign indicates a credit on your behalf

PREVIOUS AMOUNT DUE	LATE CHARGES	PAYMENTS & ADJUSTMENTS	OTHER DEBITS/CREDITS	BALANCE FORWARD	CURRENT CHARGES	
60.50	.00	60.50-	.00	.00	54.10	54.10

- Distributed Solar Energy means homeowner savings, increasing consumer spending and tax revenue

- **$45,000 in energy savings and new spending** created over the life of a home solar system
- Equates to **$400 million in total economic impact** from all Louisiana solar installed 2008-2015
- **Louisiana will earn $136 million** from tax collections related to solar energy as a result.

Distributed Solar Jobs In Louisiana

- In mid-2015 there were over 1,200 direct solar jobs in Louisiana, as well as 2400 support and indirect positions related to solar.
- In Louisiana the top 3 solar sectors created **high-paying, long-lasting jobs.**
- Solar jobs are created **20x faster** than the national average.

Rank	Sector	Average Wages
1	Installation	$20-27 hourly
2	Manufacturing	$18-24 hourly
3	Sales & Distribution	$30-40 hourly

Gulf States Renewable Energy Industries Association

www.gsreia.org - 888-647-7342 - info@gsreia.org

The Move to Utility Scale Renewable Energy SWEPCO IRP Example

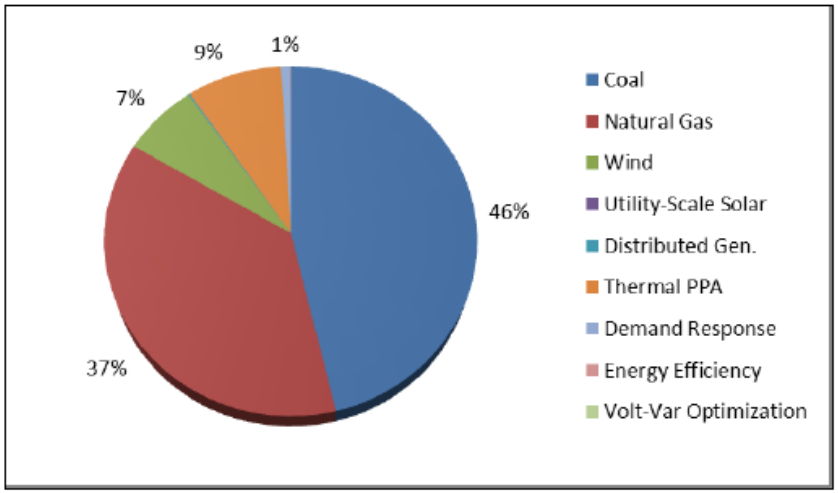

Figure 36. 2015 SWEPCO Nameplate Capacity Mix

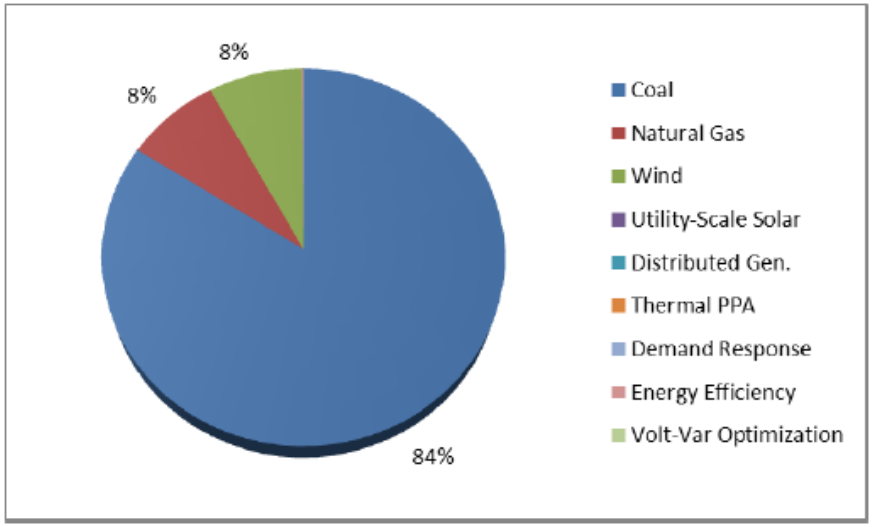

Figure 38. 2015 SWEPCO Energy Mix

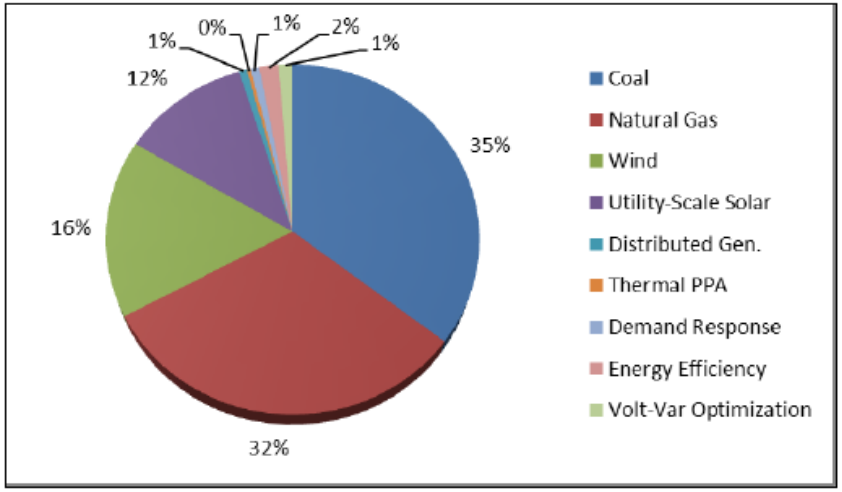

Figure 37. 2024 SWEPCO Nameplate Capacity Mix

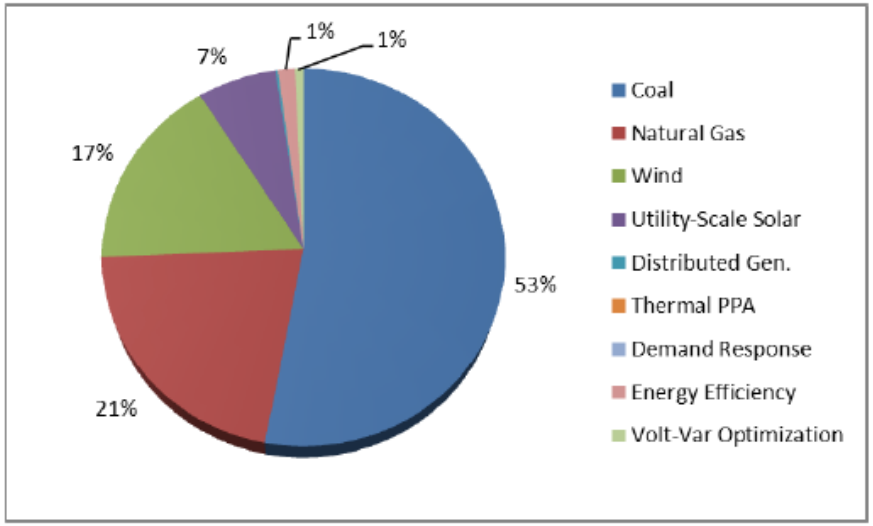

Figure 39. 2024 SWEPCO Energy Mix

Thank You

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