

# 2023 Summer Peak Loads (through mid-August)

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**Load Forecasting Task Force**

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# Agenda

- Daily System Peak Loads
- July 28<sup>th</sup> Zonal Coincident Peak Loads
- July 28<sup>th</sup> Weather
- Daily Regional Peak Loads
- Zonal Non-Coincident Peaks
- Non-Coincident Weather

## Notes

*Data presented is from 6/1/23 through 8/15/23*

*Loads have not yet been adjusted for weather or demand response impacts*

# Daily System Peak Loads

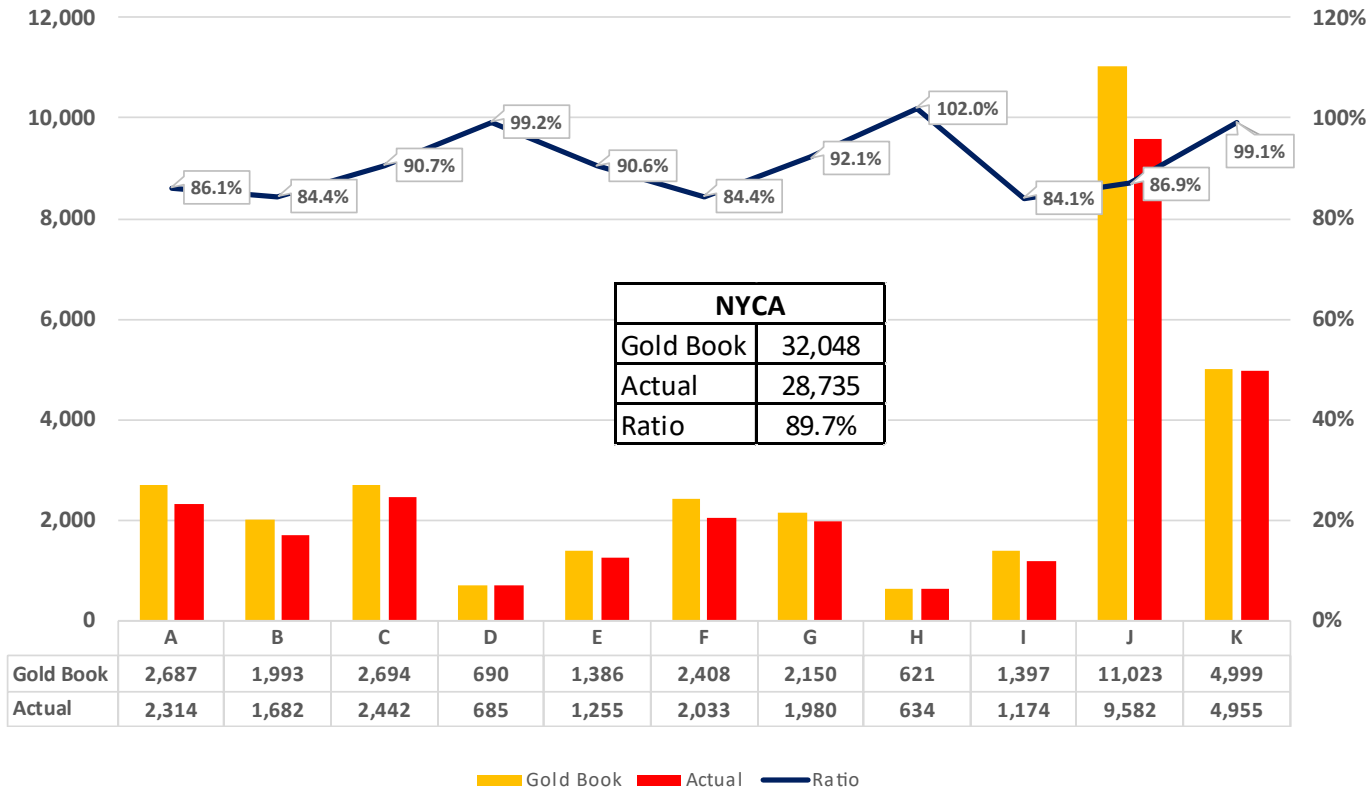
## Summer 2023 NYCA Daily Peaks (MW)

Peak to Date: 28,735 MW on July 28



# July 28<sup>th</sup> Zonal Coincident Peak Loads

7/28 HB 17 Loads vs. Gold Book Coincident Peak Forecast (MW)



**Notes:**

Peak weather conditions in July were significantly cooler than average on a statewide basis (additional detail on slides 5 & 11)

Final weather-adjusted peak values will be adjusted higher to reflect the cooler than normal weather conditions and the addition of demand-response.

# July 28<sup>th</sup> Zonal Weather

Zonal Peak Producing CTHI - 7/28/2023

Zone	CTHI	+/- Design	Z (Sigma)	Percentile
A	79.9	-1.3	-0.60	27%
B	81.2	-1.8	-0.83	20%
C	81.6	-1.3	-0.62	27%
D	79.8	-2.4	-0.81	21%
E	81.0	-1.4	-0.67	25%
F	82.7	-1.5	-0.65	26%
G	83.1	-2.4	-0.96	17%
H	83.6	-2.1	-0.76	22%
I	83.5	-2.4	-0.72	24%
J	83.9	-2.6	-0.73	23%
K	83.2	-1.6	-0.66	26%
<b>NYCA</b>	<b>82.3</b>	<b>-1.9</b>	<b>-0.70</b>	<b>24%</b>

20 Year Normal & Design CTHI - 2003 to 2022

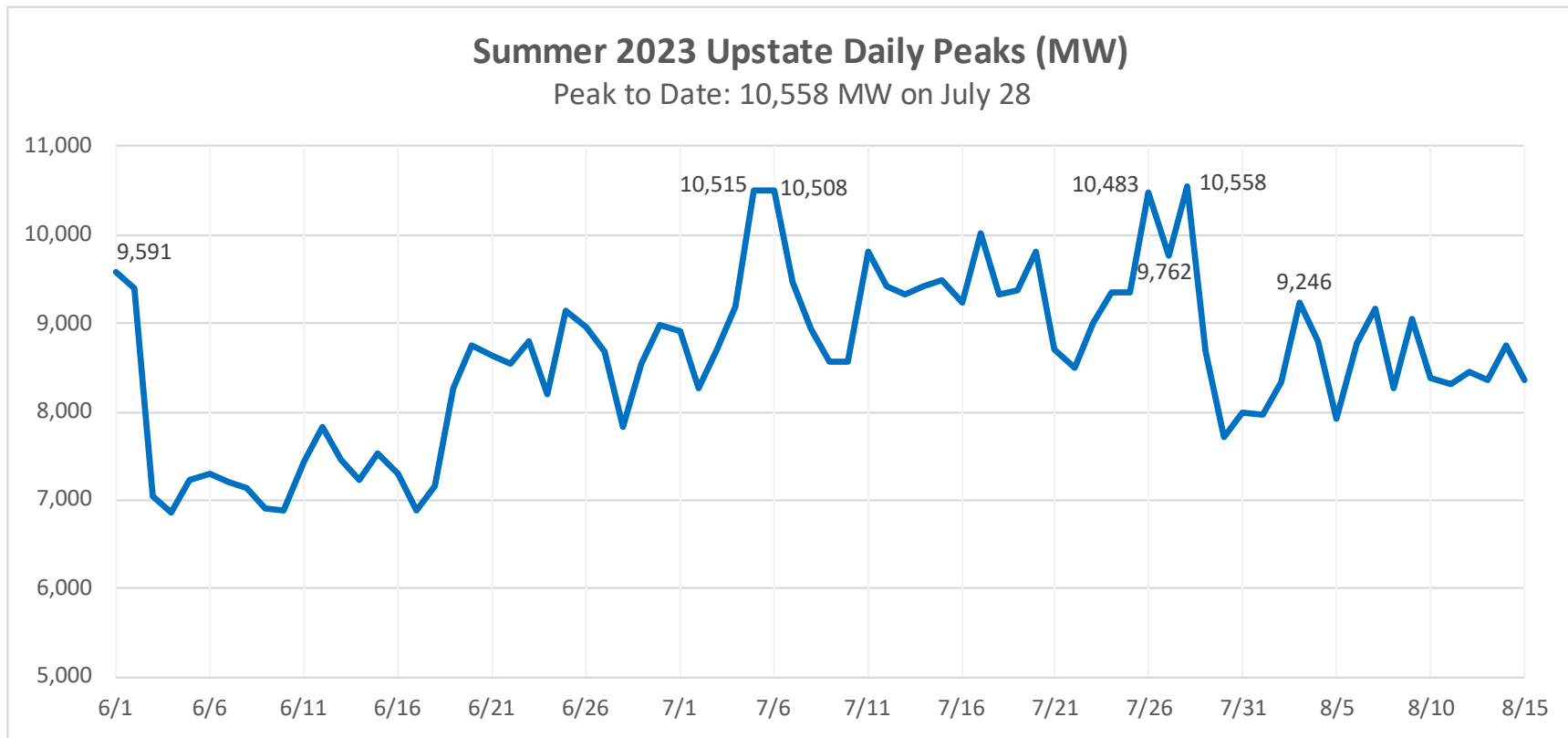
Zone	50th	Design	Design Pct	Std Dev
A	81.2	81.2	50%	2.2
B	82.9	82.9	50%	2.1
C	82.9	82.9	50%	2.1
D	82.2	82.2	50%	2.9
E	82.4	82.4	50%	2.1
F	84.2	84.2	50%	2.3
G	85.1	85.5	58%	2.1
H	85.3	85.7	57%	2.2
I	85.0	85.9	67%	2.1
J	85.5	86.5	67%	2.2
K	84.8	84.8	50%	2.4
<b>NYCA</b>	<b>83.8</b>	<b>84.2</b>	<b>57%</b>	<b>2.1</b>

CTHI is the Cumulative Temperature & Humidity Index.

It is a weighted average of the Temperature-Humidity Indices of the current day and the two preceding days.

Zone G through J design percentiles are above 50% due to Con Edison and O&R utilizing 1 in 3 design criteria.

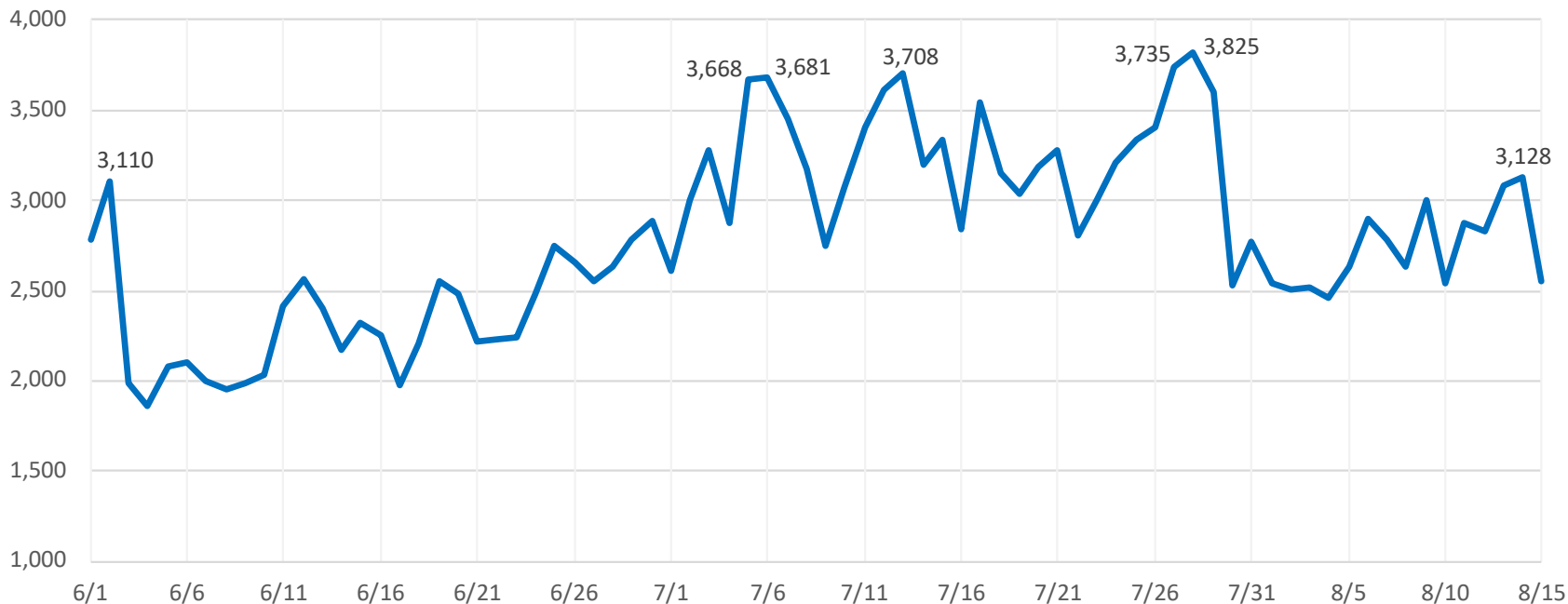
# Daily Upstate (A to F) Peak Loads



# Daily Zones G to I Peak Loads

## Summer 2023 Zones G to I Daily Peaks (MW)

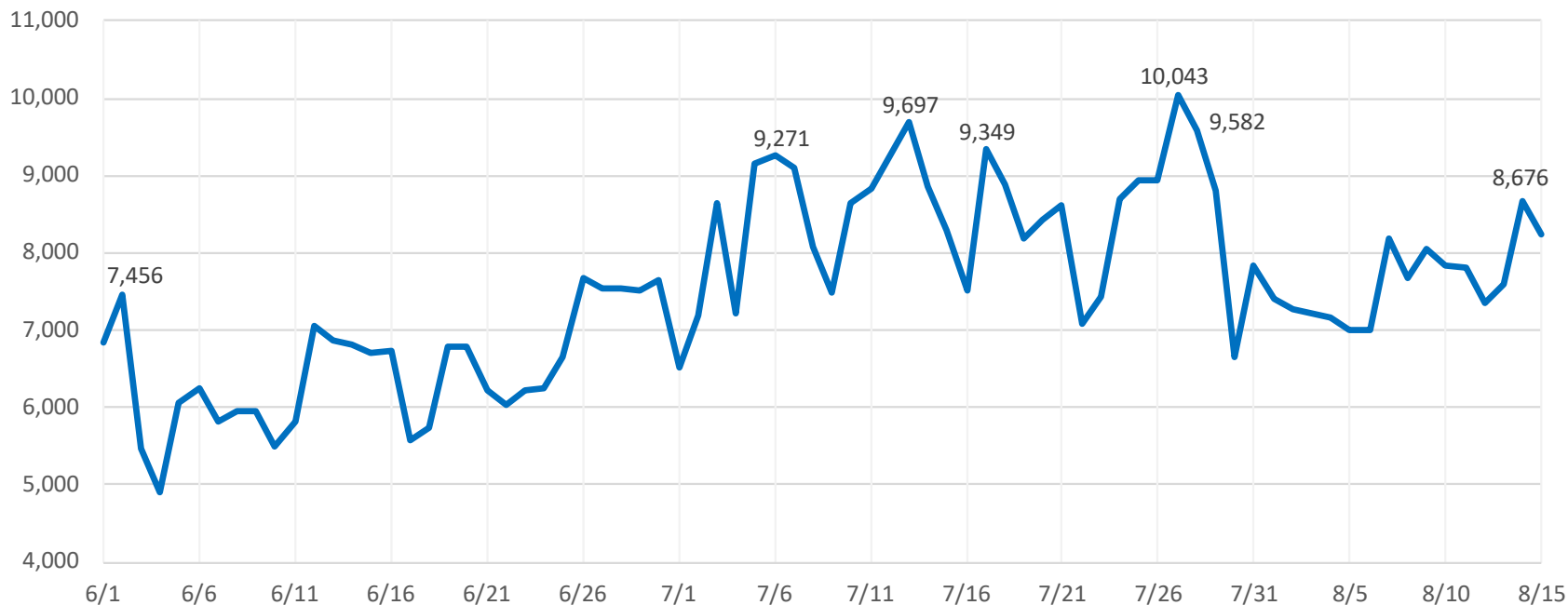
Peak to Date: 3,825 MW on July 28



# Daily Zone J Peak Loads

## Summer 2023 Zone J Daily Peaks (MW)

Peak to Date: 10,043 MW on July 27

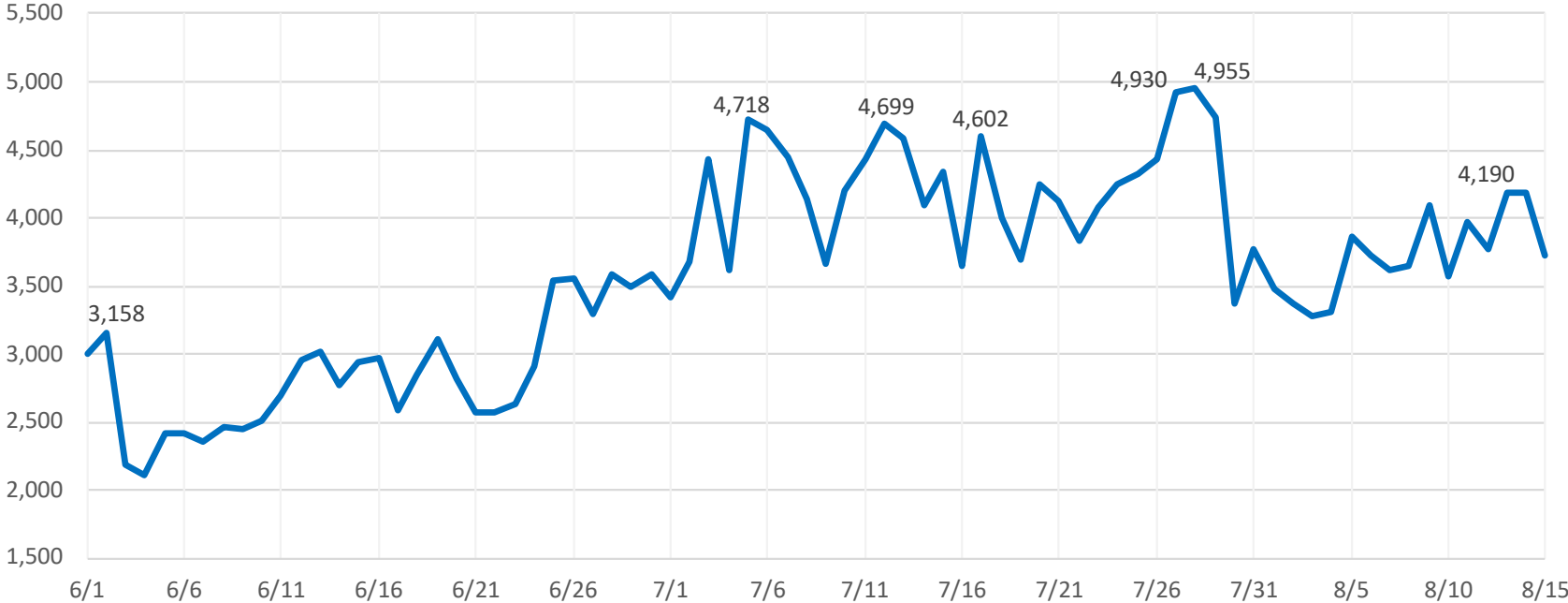




# Daily Zone K Peak Loads

## Summer 2023 Zone K Daily Peaks (MW)

Peak to Date: 4,955 MW on July 28



# Summer 2023 Zonal Peaks (to date)

Zone	Non-Coincident Peak Hour	Non-Coincident Peak MW	Coincident Peak MW <sup>^</sup>	NCP to CP % Delta	Gold Book NCP Forecast	NCP to GB % Delta
A	7/26/23 17:00	2,484	2,314	7.4%	2,774	-10.4%
B	7/6/23 16:00	1,748	1,682	3.9%	2,037	-14.2%
C	7/6/23 18:00	2,599	2,442	6.4%	2,762	-5.9%
D	7/6/23 18:00	703	685	2.6%	709	-0.9%
E	7/28/23 18:00	1,294	1,255	3.0%	1,425	-9.2%
F	7/6/23 18:00	2,082	2,033	2.4%	2,449	-15.0%
G	7/28/23 18:00	2,033	1,980	2.6%	2,193	-7.3%
H	7/28/23 17:00	634	634	0.0%	633	0.1%
I	7/27/23 17:00	1,222	1,174	4.1%	1,424	-14.2%
J	7/27/23 16:00	10,043	9,582	4.8%	11,239	-10.6%
K	7/28/23 17:00	4,955	4,955	0.0%	5,082	-2.5%

<sup>^</sup> NYCA Coincident Peak Hour to Date - 7/28/23 17:00

**Note:** Demand response and weather adjustments have yet to be added to the zonal non-coincident peaks. Final weather-adjusted peak values will be adjusted higher to reflect the cooler than normal weather conditions and the addition of demand-response.

# Non-Coincident Zonal Weather

Zonal CTHI on NCP Days

Zone	Peak	6-Jul	26-Jul	27-Jul	28-Jul
A	7/26	81.7	78.0	76.1	79.9
B	7/6	82.3	78.5	77.1	81.2
C	7/6	82.4	78.6	79.4	81.6
D	7/6	84.4	79.7	76.4	79.8
E	7/28	82.5	77.9	77.5	81.0
F	7/6	83.9	79.4	81.0	82.7
G	7/28	83.5	79.2	82.8	83.1
H	7/28	84.0	79.9	84.1	83.6
I	7/27	83.2	79.8	84.0	83.5
J	7/27	81.9	80.0	83.7	83.9
K	7/28	80.8	79.8	82.4	83.2
NYCA	7/28	81.8	79.0	80.8	82.3

Zonal Percentiles

Relative to Coincident Peak-Producing Zonal CTHI

Zone	6-Jul	26-Jul	27-Jul	28-Jul
A	58%	7%	1%	27%
B	39%	2%	1%	20%
C	40%	2%	5%	27%
D	78%	19%	2%	21%
E	51%	2%	1%	25%
F	45%	2%	8%	26%
G	22%	1%	13%	17%
H	28%	1%	29%	22%
I	20%	1%	31%	24%
J	5%	1%	21%	23%
K	5%	2%	15%	26%
NYCA	17%	1%	7%	24%

CTHI is the Cumulative Temperature & Humidity Index.

It is a weighted average of the Temperature-Humidity Indices of the current day and the two preceding days.

# Questions?

# Our Mission & Vision



## Mission

Ensure power system reliability and competitive markets for New York in a clean energy future



## Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation