

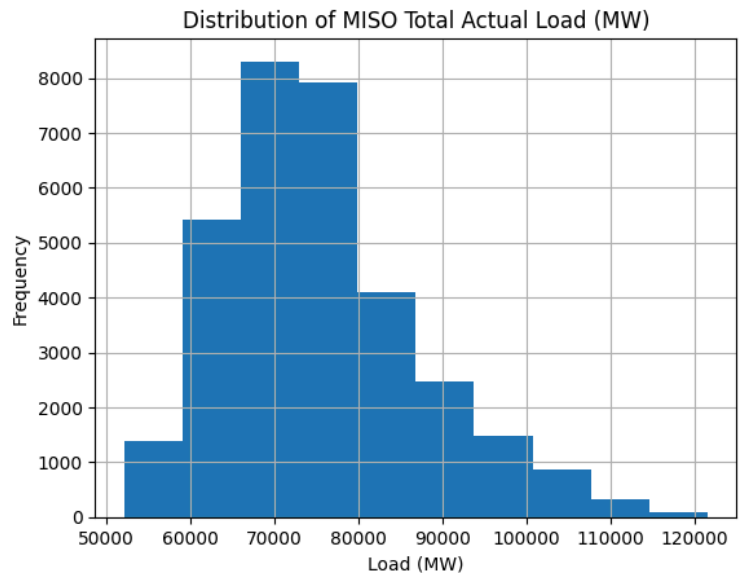
Electricity Demand Data Appendix

This appendix contains information on national electricity data (impute.df) to predict demand. The unit of observation is a time stamp, organized by date and hour of the data. Other information includes total load from the MISO (Midcontinent Independent System Operator) region, temperature from Indianapolis, Minneapolis, and New Orleans, the time the temperature was taken, and MISO total wind generation. This data was merged with a previous dataset containing information on economic activity in the MISO region.

Variables: description of variables included for each time stamp.

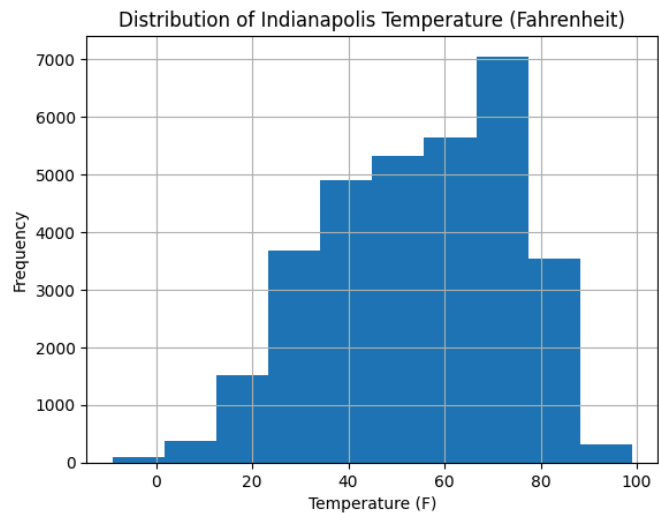
- UTC Timestamp (Interval Ending): date time stamp was taken on in yyyy-mm-dd format. Frequency table and distribution are non descriptive because there are 32,627 unique values.
- MISO Total Actual Load (MW): total demand from the time it was taken.

MISO Total Actual Load (MW)	
count	32384.000000
mean	75580.975418
std	11695.271440
min	52125.790000
25%	67409.350000
50%	73762.255000
75%	81577.535000
max	121560.240000



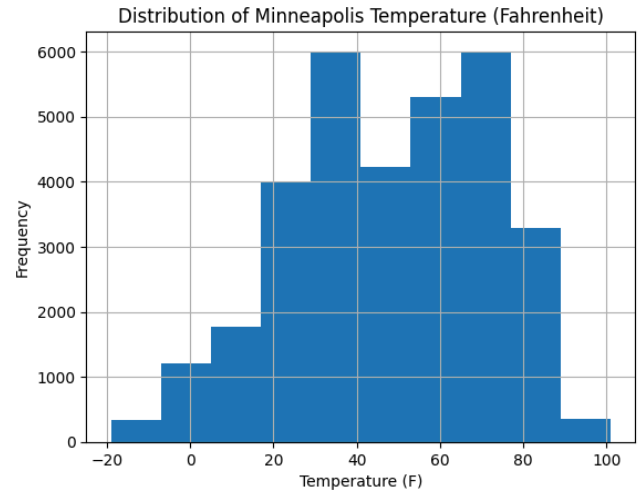
- Indianapolis Temperature (Fahrenheit): temperature at a given time in Indianapolis, Indiana.

Indianapolis Temperature (Fahrenheit)	
count	32441.000000
mean	54.643124
std	19.348815
min	-9.000000
25%	39.900000
50%	55.900000
75%	71.100000
max	99.000000



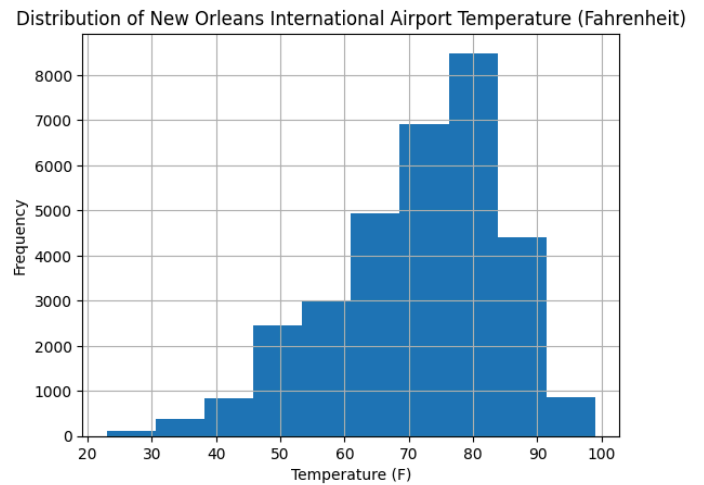
- Minneapolis Temperature (Fahrenheit): temperature at a given time in Minneapolis, Minnesota.

Minneapolis Temperature (Fahrenheit)	
count	32463.000000
mean	48.074931
std	23.612408
min	-18.900000
25%	30.900000
50%	48.900000
75%	68.000000
max	100.900000



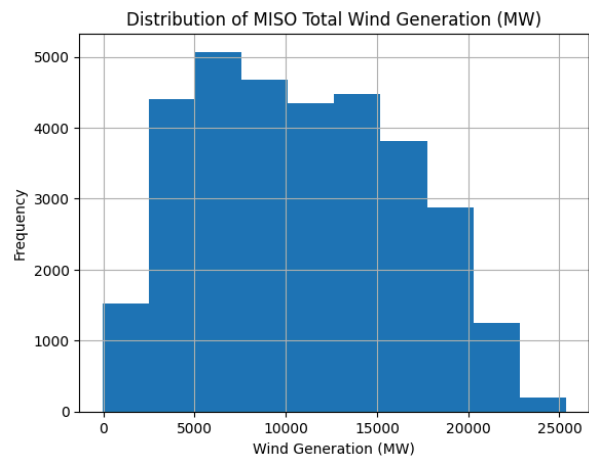
- New Orleans International Airport Temperature (Fahrenheit): temperature at a given time in New Orleans, Louisiana.

New Orleans International Airport Temperature (Fahrenheit)	
count	32387.000000
mean	71.315148
std	13.162895
min	23.000000
25%	63.000000
50%	73.900000
75%	81.000000
max	99.000000

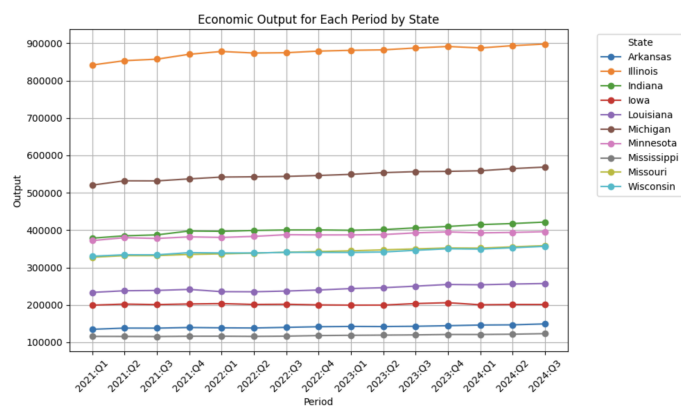


- MISO Total Wind Generation (MW): total wind at the time it was taken.

MISO Total Wind Generation (MW)	
count	32627.000000
mean	10818.636523
std	5548.514991
min	-43.610000
25%	6189.185000
50%	10481.930000
75%	15184.945000
max	25363.620000



- GDP: economic activity at a given time.



GDP	
count	3.262700e+04
mean	3.628388e+06
std	8.209842e+04
min	3.478772e+06
25%	3.566803e+06
50%	3.608077e+06
75%	3.697648e+06
max	3.780044e+06

