

# Amperon's Peak Alert 2023 Performance Report

Amperon's Peak Alerts notify you of the likelihood of a Coincident Peak event happening that day. Below are the results of how our Peak Alerts performed for the 2023 summer for the following ISOs/zones: 4CP ERCOT, 1CP NYISO, 1CP ISONE, 1CP MISO, 5CP PJM PLC, 5CP PJM NITS (COMED, PECO, PSEG), and 1CP PJM NITS (LZ\_DAY). A score of 90+ means we forecast a CP event was likely to occur.

## Classifying our Outcomes

	Peak Alert Triggered	Peak Alert Not Triggered
ISO CP Event	<b>True Positive</b>	False Negative
Not an ISO CP Event	False Positive	True Negative

## ERCOT 4CP

### Day Ahead Performance

True Positive: 4    False Positive: 8    False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
June	6/16/23	91	17	16	78072	75397
June	6/20/23	97	16	16	80274	79203
<b>June</b>	<b>6/27/23</b>	<b>93</b>	<b>17</b>	<b>17</b>	<b>81382</b>	<b>80827</b>
June	6/28/23	96	17	16	81645	80004
July	7/10/23	94	17	17	78846	79696
July	7/12/23	94	17	17	81356	81350
July	7/18/23	95	16	17	82554	82591
July	7/19/23	92	17	16	82189	82458
<b>July</b>	<b>7/31/23</b>	<b>97</b>	<b>17</b>	<b>16</b>	<b>82740</b>	<b>83046</b>
<b>August</b>	<b>8/10/23</b>	<b>93</b>	<b>17</b>	<b>17</b>	<b>84251</b>	<b>85434</b>
September	9/1/23	98	17	16	76279	76724
<b>September</b>	<b>9/8/23</b>	<b>93</b>	<b>15</b>	<b>16</b>	<b>84634</b>	<b>84182</b>

# Amperon's Peak Alert 2023 Performance Report

## ERCOT 4CP

### Intraday Performance

True Positive: 4    False Positive: 13    False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
6	6/16/23	91	17	16	77259	75397
6	6/20/23	98	17	16	81599	79203
6	6/26/23	98	17	16	82477	80144
<b>6</b>	<b>6/27/23</b>	<b>96</b>	<b>17</b>	<b>17</b>	<b>80757</b>	<b>80827</b>
6	6/28/23	98	17	16	81471	80004
6	6/29/23	93	17	16	80227	80094
7	7/10/23	93	17	17	78847	79696
7	7/12/23	95	17	17	81805	81350
7	7/13/23	94	16	17	82382	81405
7	7/18/23	98	17	17	82473	82591
7	7/19/23	94	15	16	82736	82458
<b>7</b>	<b>7/31/23</b>	<b>97</b>	<b>17</b>	<b>16</b>	<b>83163</b>	<b>83046</b>
8	8/1/23	98	16	16	83335	83592
<b>8</b>	<b>8/10/23</b>	<b>94</b>	<b>17</b>	<b>17</b>	<b>84550</b>	<b>85434</b>
8	8/21/23	91	16	16	85046	84580
9	9/1/23	98	16	16	76741	76724
<b>9</b>	<b>9/8/23</b>	<b>95</b>	<b>15</b>	<b>16</b>	<b>84742</b>	<b>84182</b>

# Amperon's Peak Alert 2023 Performance Report

## ISONE 1CP

### Day Ahead Performance

True Positive: 1 False Positive: 1 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/28/23	90	17	18	23168	22187
Sept	9/7/23	93	17	17	23831	23466

### Intraday Performance

True Positive: 1 False Positive: 2 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/28/23	90	17	18	23069	22187
Sept.	9/6/23	90	17	18	22881	22389
Sept.	9/7/23	93	17	17	23783	23466

## NYISO 1CP

### Day Ahead Performance

True Positive: 1 False Positive: 0 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/28/23	97	17	17	28499	28735

### Intraday Performance

True Positive: 1 False Positive: 0 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/28/23	97	17	17	28721	28735

# Amperon's Peak Alert 2023 Performance Report

## MISO 1CP

### Day Ahead Performance

True Positive: 1 False Positive: 12 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load	Actual Load
June	6/21/23	91	16	16	109203	107545
June	6/29/23	92	17	16	111266	104391
June	6/30/23	93	17	16	112897	110806
July	7/25/23	91	17	16	115320	117110
July	7/26/23	93	17	17	117819	111610
July	7/27/23	93	17	16	119568	120117
July	7/28/23	93	15	16	117050	118895
Aug	8/3/23	93	17	16	114548	115010
Aug	8/21/23	93	17	16	116447	114002
Aug	8/22/23	93	16	17	117777	117435
<b>Aug</b>	<b>8/23/23</b>	<b>93</b>	<b>17</b>	<b>16</b>	<b>121281</b>	<b>124229</b>
Aug	8/24/23	93	16	16	124702	122147
Sept	9/5/23	93	15	16	117885	114275

## MISO 1CP

### Intraday Performance

True Positive: 1 False Positive: 10 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
June	6/29/23	91	17	16	111381	104391
June	6/30/23	92	16	16	109945	110806
July	7/24/23	91	17	16	110604	111895
July	7/25/23	93	17	16	116311	117110
July	7/26/23	93	17	17	117805	111610
July	7/27/23	93	17	16	117835	120117
July	7/28/23	92	15	16	117037	118895
Aug	8/21/23	92	16	16	115360	114002
Aug	8/22/23	90	16	17	116740	117435
<b>Aug</b>	<b>8/23/23</b>	<b>93</b>	<b>16</b>	<b>16</b>	<b>120856</b>	<b>124229</b>
Aug	8/24/23	93	16	16	121938	122147

# Amperon's Peak Alert 2023 Performance Report

## PJM PLC 5CP

### Day Ahead Performance

True Positive: 5   False Positive: 1   False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/5/23	94	17	17	137859	137851
July	7/26/23	93	17	17	141838	137681
July	7/27/23	96	17	17	150898	147175
July	7/28/23	97	16	17	150692	144783
Sept	9/5/23	98	17	16	149886	146442
Sept	9/6/23	97	16	16	147131	141481

## PJM PLC 5CP

### Intraday Performance

True Positive: 5   False Positive: 2   False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/5/23	94	16	17	138755	137851
July	7/6/23	93	16	17	134800	134964
July	7/26/23	93	17	17	141859	137681
July	7/27/23	94	16	17	147437	147175
July	7/28/23	97	17	17	148806	144783
Sept	9/5/23	98	17	16	149414	146442
Sept	9/6/23	96	16	16	144351	141481

# Amperon's Peak Alert 2023 Performance Report

## PJM NITS (LZ\_COMED) 5CP

### Day Ahead Performance

True Positive: 5 False Positive: 3 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/5/23	96	17	14	18161	18252
July	7/26/23	95	17	19	19000	17772
July	<b>7/27/23</b>	<b>94</b>	<b>18</b>	<b>17</b>	<b>19203</b>	<b>19357</b>
July	<b>7/28/23</b>	<b>96</b>	<b>18</b>	<b>17</b>	<b>20116</b>	<b>19294</b>
Aug	8/22/23	92	17	17	18942	18262
<b>Aug</b>	<b>8/23/23</b>	<b>96</b>	<b>18</b>	<b>17</b>	<b>20759</b>	<b>21929</b>
<b>Aug</b>	<b>8/24/23</b>	<b>97</b>	<b>17</b>	<b>17</b>	<b>21626</b>	<b>22467</b>
<b>Sept</b>	<b>9/5/23</b>	<b>98</b>	<b>17</b>	<b>14</b>	<b>19907</b>	<b>18322</b>

## PJM NITS (LZ\_COMED) 5CP

### Intraday Performance

True Positive: 4 False Positive: 2 False Negative: 1

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/5/23	96	16	14	17820	18252
July	7/26/23	96	18	19	19524	17772
July	7/27/23	0	18	17	18479	19357
July	7/28/23	96	16	17	20176	19294
Aug	8/23/23	96	18	17	21012	21929
Aug	8/24/23	97	17	17	22090	22467
Sept	9/5/23	98	17	14	19868	18322

# Amperon's Peak Alert 2023 Performance Report

## PJM NITS (LZ\_PECO) 5CP

### Day Ahead Performance

True Positive: 5 False Positive: 0 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/27/23	94	17	17	7832	7730
July	7/28/23	95	16	17	7946	7941
Sept	9/5/23	93	17	17	7896	7795
Sept	9/6/23	98	17	17	8139	7980
Sept	9/7/23	95	16	15	8063	8162

## PJM NITS (LZ\_PECO) 5CP

### Intraday Performance

True Positive: 5 False Positive: 1 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/13/23	92	17	17	7631	7568
July	7/27/23	94	17	17	7842	7730
July	7/28/23	95	16	17	7870	7941
Sept	9/5/23	94	17	17	7935	7795
Sept	9/6/23	95	17	17	8077	7980
Sept	9/7/23	95	15	15	8031	8162

# Amperon's Peak Alert 2023 Performance Report

## PJM NITS (LZ\_PSEG) 5CP

### Day Ahead Performance

True Positive: 5 False Positive: 0 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/27/23	92	17	18	9317	9238
July	7/28/23	92	17	17	9312	9162
Sept	9/5/23	92	17	17	9280	9094
Sept	9/6/23	92	17	17	9415	9424
Sept	9/7/23	92	16	16	9338	9557

## PJM NITS (LZ\_PSEG) 5CP

### Intraday Performance

True Positive: 5 False Positive: 0 False Negative: 0

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
July	7/27/23	92	17	18	9236	9238
July	7/28/23	92	17	17	9252	9162
Sept	9/5/23	92	17	17	9218	9094
Sept	9/6/23	92	17	17	9390	9424
Sept	9/7/23	92	16	16	9256	9557



# Amperon's Peak Alert 2023 Performance Report

## PJM NITS (LZ\_DAY) 1CP

### Day Ahead Performance

True Positive: 0 of 1 False Positive: 2 False Negative: 1

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
Aug	8/23/23	0	0	17	3097	3241
Aug	8/24/23	95	17	17	3325	3150
Aug	8/25/23	94	14	14	3215	3225

## PJM NITS (LZ\_DAY) 1CP

### Intraday Performance

True Positive: 0 of 1 False Positive: 2 False Negative: 1

Month	CP Day Called	Score	Predicted Peak Hour	Actual Peak Hour	Predicted Load (MW)	Actual Load (MW)
Aug	8/23/23	0	0	17	3145	3241
Aug	8/24/23	95	17	17	3343	3150
Aug	8/25/23	95	14	14	3205	3225