



## 2010 CPS2 Bounds

|   |      | Est. Peak<br>Demand (MW) | Freq. Bias<br>(MW/.1Hz) | Bias/Load<br>(%) | Bias/Total<br>Bias (%) | L10<br>(MW)   | Variable<br>Bias ? |
|---|------|--------------------------|-------------------------|------------------|------------------------|---------------|--------------------|
| <b>Eastern Interconnection</b>                      |      | <b>609,054</b>           | <b>-6,244</b>           | <b>-1.03</b>     | <b>100.00</b>          |               |                    |
| Implementation Date: 3/1/2010                       |      |                          |                         |                  |                        |               |                    |
| <b>FRCC</b>   |      | <b>49,748</b>            | <b>-499.2</b>           | <b>-1.00</b>     | <b>8.00</b>            |               |                    |
| City of Homestead                                   | HST  | 90                       | -1                      | 1.11             | 0.02                   | <b>7.43</b>   |                    |
| City of Tallahassee                                 | TAL  | 599                      | -6                      | 1.00             | 0.10                   | <b>18.20</b>  |                    |
| Florida Municipal Power Pool                        | FMPP | 3,550                    | -35.5                   | 1.00             | 0.57                   | <b>44.28</b>  |                    |
| Florida Power & Light                               | FPL  | 21,102                   | -211                    | 1.00             | 3.38                   | <b>107.95</b> |                    |
| Gainesville Regional Utilities                      | GVL  | 470                      | -6                      | 1.28             | 0.10                   | <b>18.20</b>  |                    |
| JEA   | JEA  | 3,054                    | -31                     | 1.02             | 0.50                   | <b>41.38</b>  |                    |
| Progress Energy Florida (Florida Power Corporation) | FPC  | 12,445                   | -124                    | 1.00             | 1.99                   | <b>82.75</b>  |                    |
| Reedy Creek Improvement District                    | RC   | 185                      | -2                      | 1.08             | 0.03                   | <b>10.51</b>  |                    |
| Seminole Electric Cooperative                       | SEC  | 3,810                    | -38.1                   | 1.00             | 0.61                   | <b>45.87</b>  |                    |
| Tampa Electric Company                              | TEC  | 4,353                    | -43.6                   | 1.00             | 0.70                   | <b>49.07</b>  |                    |
| Utilities Commission, City of New Smyrna Beach      | NSB  | 90                       | -1                      | 1.11             | 0.02                   | <b>7.43</b>   |                    |

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| <b>MRO</b>  |      | <b>18,425</b>            | <b>-198.3</b>           | <b>-1.08</b>     | <b>3.18</b>            |               |                    |
| Dairyland Power Cooperative                                   | DPC  | 928                      | -9.3                    | 1.00             | 0.15                   | <b>22.66</b>  |                    |
| Lincoln Electric System                                       | LES  | 776                      | -7.8                    | 1.01             | 0.12                   | <b>20.76</b>  |                    |
| MHEB, Transmission Services                                   | MHEB | 4,333                    | -43.3                   | 1.00             | 0.69                   | <b>48.90</b>  |                    |
| Nebraska Public Power District                                | NPPD | 3,150                    | -45                     | 1.43             | 0.72                   | <b>49.85</b>  |                    |
| Omaha Public Power District                                   | OPPD | 2,546                    | -25.5                   | 1.00             | 0.41                   | <b>37.53</b>  |                    |
| SaskPower Grid Control Centre                                 | SPC  | 3,242                    | -32.4                   | 1.00             | 0.52                   | <b>42.30</b>  |                    |
| Western Area Power Administration,<br>Upper Great Plains East | WAUE | 3,450                    | -35                     | 1.01             | 0.56                   | <b>43.97</b>  |                    |
| <b>NPCC</b>   |      | <b>90,695</b>            | <b>-916.8</b>           | <b>-1.01</b>     | <b>14.68</b>           |               |                    |
| Independent Electricity System Operator                       | IESO | 23,608                   | -245.8                  | 1.04             | 3.94                   | <b>116.51</b> |                    |
| ISO New England Inc.  | ISNE | 28,160                   | -282                    | 1.00             | 4.52                   | <b>124.80</b> |                    |
| New Brunswick Security Operator                               | NBSO | 5,486                    | -55                     | 1.00             | 0.88                   | <b>55.11</b>  |                    |
| New York Independent System Operator                          | NYIS | 33,441                   | -334                    | 1.00             | 5.35                   | <b>135.82</b> |                    |

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|                                     |      | Est. Peak<br>Demand (MW) | Freq. Bias<br>(MW/.1Hz) | Bias/Load<br>(%) | Bias/Total<br>Bias (%) | L10<br>(MW)   | Variable<br>Bias ? |
|-------------------------------------|------|--------------------------|-------------------------|------------------|------------------------|---------------|--------------------|
| <i>RFC</i>                          |      | <b>239,723</b>           | <b>-2426.6</b>          | <b>-1.01</b>     | <b>38.86</b>           |               |                    |
| Midwest Independent System Operator | MISO | 103,864                  | -1038.6                 | 1.00             | 16.63                  | <b>239.50</b> |                    |
| Ohio Valley Electric Corporation    | OVEC | 109                      | -30                     | 27.52            | 0.48                   | <b>40.70</b>  |                    |
| PJM Interconnection                 | PJM  | 135,750                  | -1358                   | 1.00             | 21.75                  | <b>273.86</b> |                    |

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|   |      | Est. Peak<br>Demand (MW) | Freq. Bias<br>(MW/.1Hz) | Bias/Load<br>(%) | Bias/Total<br>Bias (%) | L10<br>(MW)   | Variable<br>Bias ? |
|---|------|--------------------------|-------------------------|------------------|------------------------|---------------|--------------------|
| <b>SERC</b>                                     |      | <b>166,028</b>           | <b>-1736.72</b>         | <b>-1.05</b>     | <b>27.82</b>           |               |                    |
| Alcoa Power Generating, Inc. - Yadkin Division  | YAD  | (214)*                   | -2.14                   |                  | 0.03                   | <b>10.87</b>  |                    |
| Associated Electric Cooperative, Inc.           | AECI | 4,501                    | -45                     | 1.00             | 0.72                   | <b>49.85</b>  |                    |
| Batesville Balancing Authority                  | BBA  | (558)*                   | -5.58                   |                  | 0.09                   | <b>17.55</b>  |                    |
| Big Rivers Electric Corporation                 | BREC | 1,604                    | -17                     | 1.06             | 0.27                   | <b>30.64</b>  |                    |
| City of Benton                                  | BUBA | 79                       | -0.8                    | 1.01             | 0.01                   | <b>6.65</b>   |                    |
| City of Conway                                  | CNWX | 216                      | -2.2                    | 1.02             | 0.04                   | <b>11.02</b>  |                    |
| City of North Little Rock, AR (DENL)            | DENL | 278                      | -2.8                    | 1.01             | 0.04                   | <b>12.44</b>  |                    |
| City of Osceola                                 | OMLP | 38                       | -0.38                   | 1.00             | 0.01                   | <b>4.58</b>   |                    |
| City of Ruston, LA (DERS)                       | DERS | 69                       | -0.7                    | 1.01             | 0.01                   | <b>6.22</b>   |                    |
| City of West Memphis                            | WMUC | 94                       | -0.94                   | 1.00             | 0.02                   | <b>7.21</b>   |                    |
| Duke Energy Carolinas                           | DUK  | 19,517                   | -196                    | 1.00             | 3.14                   | <b>104.04</b> |                    |
| E.ON U.S. Services Inc. for LG&E & KU Companies | LGEE | 7,389                    | -74                     | 1.00             | 1.19                   | <b>63.93</b>  |                    |
| East Kentucky Power Cooperative                 | EKPC | 3,166                    | -42.73                  | 1.35             | 0.68                   | <b>48.58</b>  |                    |
| Electric Energy, Inc.                           | EEI  | (1000)*                  | -10                     |                  | 0.16                   | <b>23.50</b>  |                    |
| Entergy   | EES  | 22,705                   | -227.1                  | 1.00             | 3.64                   | <b>111.99</b> |                    |
| Louisiana Generating, LLC                       | LAGN | 2,081                    | -21                     | 1.01             | 0.34                   | <b>34.06</b>  |                    |

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|--|------|--------------------------|-------------------------|------------------|------------------------|---------------|--------------------|
| <b>SERC</b>                                      |      | <b>166,028</b>           | <b>-1736.72</b>         | <b>-1.05</b>     | <b>27.82</b>           |               |                    |
| Plum Point Energy Associates (PPEA),<br>LLC - BA | PLUM | (665)*                   | -6.65                   |                  | 0.11                   | <b>19.16</b>  |                    |
| PowerSouth Energy Cooperative                    | AEC  | 2,098                    | -21                     | 1.00             | 0.34                   | <b>34.06</b>  |                    |
| Progress Energy Carolinas - EAST                 | CPLE | 12,205                   | -122                    | 1.00             | 1.95                   | <b>82.08</b>  |                    |
| Progress Energy Carolinas - WEST                 | CPLW | 1,067                    | -11                     | 1.03             | 0.18                   | <b>24.65</b>  |                    |
| South Carolina Electric & Gas Company            | SCEG | 5,208                    | -52.1                   | 1.00             | 0.83                   | <b>53.64</b>  |                    |
| South Carolina Public Service Authority          | SC   | 5,953                    | -61.52                  | 1.03             | 0.99                   | <b>58.29</b>  |                    |
| South Mississippi Electric Power<br>Association  | SME  | 1,500                    | -15                     | 1.00             | 0.24                   | <b>28.78</b>  |                    |
| Southeastern Power Administration                | SEPA | (1447)*                  | -14 (2 - 14**)          |                  | 0.22                   | <b>27.81</b>  | Variable           |
| Southern Company Services, Inc. - Trans          | SOCO | 44,500                   | -445                    | 1.00             | 7.13                   | <b>156.77</b> |                    |
| Tennessee Valley Authority                       | TVA  | 31,760                   | -317.6                  | 1.00             | 5.09                   | <b>132.44</b> |                    |
| Union Power Partners, L.P. (PUPP)                | PUPP | (2248)*                  | -22.48                  |                  | 0.36                   | <b>35.24</b>  |                    |

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| <b>SPP</b>                                      |      | <b>44,435</b>            | <b>-466.1</b>           | <b>-1.05</b>     | <b>7.47</b>            |              |                    |
| Board of Public Utilities                       | KACY | 504                      | -5.1                    | 1.01             | 0.08                   | <b>16.78</b> |                    |
| Central and Southwest                           | CSWS | 10,340                   | -103.4                  | 1.00             | 1.66                   | <b>75.57</b> |                    |
| City of Independence Missouri                   | INDN | 320                      | -3.2                    | 1.00             | 0.05                   | <b>13.29</b> |                    |
| City of Lafayette                               | LAFA | 483                      | -5                      | 1.04             | 0.08                   | <b>16.62</b> |                    |
| Cleco Corporation, Inc.                         | CLEC | 1,978                    | -24                     | 1.21             | 0.38                   | <b>36.41</b> |                    |
| Empire District Electric Co., The               | EDE  | 1,187                    | -11.9                   | 1.00             | 0.19                   | <b>25.64</b> |                    |
| Grand River Dam Authority                       | GRDA | 939                      | -10                     | 1.06             | 0.16                   | <b>23.50</b> |                    |
| Kansas City Power & Light, Co                   | KCPL | 3,726                    | -38                     | 1.02             | 0.61                   | <b>45.81</b> |                    |
| Louisiana Energy & Power Authority              | LEPA | 221                      | -3                      | 1.36             | 0.05                   | <b>12.87</b> |                    |
| Missouri Public Service (Aquila Networks - MPS) | MPS  | 1,984                    | -20                     | 1.01             | 0.32                   | <b>33.23</b> |                    |
| Oklahoma Gas and Electric                       | OKGE | 6,504                    | -65.1                   | 1.00             | 1.04                   | <b>59.96</b> |                    |
| Southwestern Power Administration               | SPA  | 1,648                    | -27                     | 1.64             | 0.43                   | <b>38.62</b> |                    |
| Southwestern Public Service Company             | SPS  | 5,579                    | -60                     | 1.08             | 0.96                   | <b>57.56</b> |                    |
| Sunflower Electric Power Corporation            | SECI | 1,089                    | -11                     | 1.01             | 0.18                   | <b>24.65</b> |                    |
| Western Farmers Electric Cooperative            | WFEC | 1,430                    | -14.3                   | 1.00             | 0.23                   | <b>28.10</b> |                    |
| Western Resources dba Westar Energy             | WR   | 6,503                    | -65.1                   | 1.00             | 1.04                   | <b>59.96</b> |                    |

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| <b>Hydro Quebec Interconnection</b>  |      |                          |                         |                  |                        |               |                    |
| Implementation Date: 2/1/2010  |      |                          |                         |                  |                        |               |                    |
| <i>NPCC-HQ</i>   |      | <b>36,116</b>            | <b>-361.16</b>          | <b>-1.00</b>     | <b>100.00</b>          |               |                    |
| Hydro-Quebec, TransEnergie   | HQT  | 36,116                   | -361.16 (230 - 630**)   | 1.00             | 100.00                 | <b>148.38</b> | Variable           |
| <b>ERCOT Interconnection</b>   |      |                          |                         |                  |                        |               |                    |
| Implementation Date: 2/1/2010  |      |                          |                         |                  |                        |               |                    |
| <i>ERCOT</i>   |      | <b>63,783</b>            | <b>-667</b>             | <b>-1.05</b>     | <b>100.00</b>          |               |                    |
| <i>ERCOT has been granted a waiver and is not required to report CPS2.</i> |      |                          |                         |                  |                        |               |                    |
| ERCOT ISO  | ERCO | 63,783                   | -667                    | 1.05             | 100.00                 |               |                    |

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| <b>Western Interconnection</b>                              |      | <b>171,817</b>           | <b>-1,999</b>           | <b>-1.16</b>     | <b>100.00</b>          |              |                    |
| Implementation Date: 2/9/2010                               |      |                          |                         |                  |                        |              |                    |
| <b>WECC-AZNMSNV</b>   |      | <b>30,415</b>            | <b>-396.41</b>          | <b>-1.30</b>     | <b>19.83</b>           |              |                    |
| Arizona Public Service Company                              | AZPS | 7,445                    | -74.5                   | 1.00             | 3.73                   | <b>46.48</b> |                    |
| Arlington Valley, LLC                                       | DEAA | (598)*                   | -5.98                   |                  | 0.30                   | <b>13.17</b> |                    |
| El Paso Electric Company                                    | EPE  | 1,619                    | -19                     | 1.17             | 0.95                   | <b>23.47</b> |                    |
| Griffith Energy, LLC  | GRIF | (594)*                   | -5.94                   |                  | 0.30                   | <b>13.13</b> |                    |
| Harquahala L.L.C.   | HGMA | (1119)*                  | -11.2                   |                  | 0.56                   | <b>18.02</b> |                    |
| Imperial Irrigation District                                | IID  | 996                      | -10                     | 1.00             | 0.50                   | <b>17.03</b> |                    |
| Nevada Power Company  | NEVP | 6,229                    | -62.29                  | 1.00             | 3.12                   | <b>42.50</b> |                    |
| Panda Gila River, L.P.                                      | GRMA | (2140)*                  | -21.4                   |                  | 1.07                   | <b>24.91</b> |                    |
| Public Service Company of New Mexico                        | PNM  | 2,625                    | -35.7                   | 1.36             | 1.79                   | <b>32.18</b> |                    |
| Salt River Project  | SRP  | 6,520                    | -65.2                   | 1.00             | 3.26                   | <b>43.49</b> |                    |
| Tucson Electric Power Company                               | TEPC | 3,034                    | -30.4                   | 1.00             | 1.52                   | <b>29.69</b> |                    |
| Western Area Power Administration,<br>Lower Colorado Region | WALC | 1,947                    | -54.8                   | 2.81             | 2.74                   | <b>39.87</b> |                    |

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| <b>WECC-CAMX</b>                               | <b>56,910</b>            | <b>-581.83</b>          | <b>-1.02</b>     | <b>29.11</b>           |               |                    |
| California Independent System Operator CISO    | 48,497                   | -485                    | 1.00             | 24.26                  | <b>118.60</b> |                    |
| Comision Federal de Electricidad CFE           | 2,188                    | -34.53                  | 1.58             | 1.73                   | <b>31.65</b>  |                    |
| Los Angeles Department of Water and Power LDWP | 6,225                    | -62.3                   | 1.00             | 3.12                   | <b>42.51</b>  |                    |

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| <b>WECC-NWPP</b>                          |      | <b>73,456</b>            | <b>-885.82</b>          | <b>-1.21</b>     | <b>44.31</b>           |              |                    |
| Alberta Electric System Operator          | AESO | 10,527                   | -125                    | 1.19             | 6.25                   | <b>60.21</b> |                    |
| Avista Corp.                              | AVA  | 2,353                    | -23.5                   | 1.00             | 1.18                   | <b>26.11</b> |                    |
| Bonneville Power Administration           | BPAT | 10,926                   | -157.3 (150 - 700**)    | 1.44             | 7.87                   | <b>67.54</b> | Variable           |
| British Columbia Transmission Corporation | BCTC | 11,550                   | -118 (115 - 250**)      | 1.02             | 5.90                   | <b>58.50</b> | Variable           |
| Idaho Power Company                       | IPCO | 3,104                    | -40                     | 1.29             | 2.00                   | <b>34.06</b> |                    |
| NaturEner Power Watch, LLC (GWA)          | GWA  | (210)*                   | -2.1                    |                  | 0.11                   | <b>7.80</b>  |                    |
| NorthWestern Energy                       | NWMT | 1,713                    | -20                     | 1.17             | 1.00                   | <b>24.08</b> |                    |
| PacifiCorp-East                           | PACE | 7,723                    | -77                     | 1.00             | 3.85                   | <b>47.26</b> |                    |
| PacifiCorp-West                           | PACW | 4,489                    | -45                     | 1.00             | 2.25                   | <b>36.13</b> |                    |
| Portland General Electric Company         | PGE  | 3,886                    | -50                     | 1.29             | 2.50                   | <b>38.08</b> |                    |
| PUD No. 1 of Chelan County                | CHPD | 645                      | -12                     | 1.86             | 0.60                   | <b>18.66</b> |                    |
| PUD No. 1 of Douglas County               | DOPD | 389                      | -7                      | 1.80             | 0.35                   | <b>14.25</b> |                    |
| PUD No. 2 of Grant County                 | GCPD | 726                      | -25                     | 3.44             | 1.25                   | <b>26.93</b> |                    |
| Puget Sound Energy                        | PSEI | 5,200                    | -52                     | 1.00             | 2.60                   | <b>38.83</b> |                    |
| Sacramento Municipal Utility District     | SMUD | 4,518                    | -45.18                  | 1.00             | 2.26                   | <b>36.20</b> |                    |
| Seattle Department of Lighting            | SCL  | 1,933                    | -40                     | 2.07             | 2.00                   | <b>34.06</b> |                    |
| Sierra Pacific Power Company              | SPPC | 2,004                    | -20.04                  | 1.00             | 1.00                   | <b>24.11</b> |                    |

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|--|------|--------------------------|-------------------------|------------------|------------------------|--------------|--------------------|
| <b>WECC-NWPP</b>   |      | <b>73,456</b>            | <b>-885.82</b>          | <b>-1.21</b>     | <b>44.31</b>           |              |                    |
| Tacoma Power   | TPWR | 975                      | -18                     | 1.85             | 0.90                   | <b>22.85</b> |                    |
| Turlock Irrigation District                                    | TID  | 665                      | -6.7                    | 1.01             | 0.34                   | <b>13.94</b> |                    |
| Western Area Power Administration,<br>Upper-Missouri Region    | WAUW | 130                      | -2                      | 1.54             | 0.10                   | <b>7.62</b>  |                    |
| <b>WECC-RMPA</b>   |      | <b>11,036</b>            | <b>-135</b>             | <b>-1.22</b>     | <b>6.75</b>            |              |                    |
| Public Service Company of Colorado                             | PSCO | 7,389                    | -80                     | 1.08             | 4.00                   | <b>48.17</b> |                    |
| Western Area Power Administration,<br>Colorado-Missouri Region | WACM | 3,647                    | -55                     | 1.51             | 2.75                   | <b>39.94</b> |                    |

\* Indicates Installed Capacity of Generation Only Balancing Authority Area and Is Not Included In the Estimated Peak Demand of the Region.

\*\* The L10 of a variable bias Balancing Authority Area is calculated using the average bias as submitted to NERC for traditional Balancing Authority Areas and by using 1% of installed capacity for Generation Only Balancing Authority Areas. The actual L10 used for Balancing Authority Area performance reporting will differ based upon the requirements for each report.



## 2010 CPS2 Bounds

| Interconnection Epsilons |           |            |
|--------------------------|-----------|------------|
| Interconnection          | Epsilon 1 | Epsilon 10 |
| Eastern                  | 18.0      | 5.7        |
| Hydro Quebec             | 21.0      | 24.9       |
| Western                  | 22.8      | 7.3        |
| ERCOT                    | 30.0      | 13.15      |