Upcoming iCRS Changes

Presented By: Kevin Johnson

November 5, 2020 and November 19, 2020
Agenda

- What’s Happening and Why
- iCRS Generation Advisor (GA)
  - Display changes: current and new GA
  - Configuration options in new GA
  - Demo
- Request for Beta Testers
What’s Happening and Why

- iCRS is built using the Adobe Flash graphics package
- Major browsers (i.e. Internet Explorer, Chrome) will stop supporting Adobe Flash at the end of the year
- BPA is transitioning iCRS from the Adobe Flash platform to a React Javascript framework with Sencha components
What’s Happening and Why (cont.)

- This transition will impact iCRS Generation Advisor users
  - New Generation Advisor will be launched in December 2020
  - BPA is optimizing Generation Advisor for FireFox ESR 78
  - Microsoft Internet Explorer will NOT support the new Generation Advisor
    - Microsoft Edge V86 and above will support it
Display Changes: Current GA
Display Changes: New GA

-10% (0%) Normal

Trends Values
Balancing Reserves
Max Inc Reser... 724 MW
Deployed Rese... -92 MW
Potential Dep R... -3 MW
Max Dec Res... -903 MW
Wind
Total Generati... 491 MW
Total Schedul... 462 MW
Total SCE... 32 MW
System
Net Genera... 10136 MW
Net Load... 6286 MW
Net Actual In... 3850 MW
Net Sched In... 3926 MW
Total Hydro S... 999 MW
Total Thermal S... 999 MW

Balancing Authority Trend

Time (2 Hours)

Plant Info

4/4 Plants

Plant Name | Plant | Operator | Actual | Scheduled | SCE | Scd Value | HE + 1 | Dec Res All | Dep Res | Inc Res Alloc | Limit Target | Cur
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
ALL PLANTS | TOTAL | ALL OPERA... | 45.00 | 68.00 | -23.00 | 50 | 61 | -76 | 23.00 | 59 | 144.00 | 104
Chaff Point | CPW | Demo Ener... | 39.00 | 63.00 | -24.00 | 41 | 58 | -43 | 24.00 | 23 | 105.00 | 71.4
Gale Farm | GFH | Demo Ener... | 0.00 | 0.00 | 0 | 0 | 0 | -13 | 0.00 | 10 | 13.00 | 10.4
ICRS Canyon | ICW | Demo Ener... | 6.00 | 5.00 | 1.00 | 9 | 3 | -20 | -1.00 | 16 | 25.00 | 23.4
Velma Creek | VLM | Demo Ener... | 0.00 | 0.00 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00

For Discussion Purposes Only
Display Changes: Current GA

Balancing Authority Info
- Deployed Reserves: -10% (0%)
- Wind: 17%

Deployed Reserves
- Limit: -10%

Wind Generation
- Curtail: 17%

For Discussion Purposes Only
Configuration Options: Forecast Panel

Deployed Reserves

-21% (-14%) Normal

Balancing Reserves
Max Inc Reser... 724 MW
Deployed Res... -192 MW
Potential Dep... -123 MW
Max Dec Res... -903 MW

Wind
Total Generation... 555 MW
Total Schedule... 675 MW
Total SCE... -120 MW

System
Net Generator... 10823 MW
Net Load... 6257 MW
Net Actual In... 4566 MW
Net Sched In... 4680 MW
Total Hydro... 999 MW
Total Thermal... 999 MW

Forecast (ALL PLANTS)
Time Frame
- 72 Hours
- 24 Hours
- 8 Hours
- 2 Hours
- 30 Minutes
- 5 Minutes

Plant Types
- VEK
- Hydro
- Thermal
- Other

Show Plant Selection
- Show
- Hide

Scale to Total Nameplate
- Yes
- No

For Discussion Purposes Only
Configuration Options: Forecast Panel (cont.)

-15% (-7%) Normal

**Balancing Reserves**
- Max Inc Reser... 724 MW
- Deployed Res... -142 MW
- Potential Dep... -67 MW
- Max Dec Res... -903 MW

**Wind**
- Total Generation... 580 MW
- Total Scheduled... 674 MW
- Total SCE -90 MW

**System**
- Net Generation... 10904 MW
- Net Load... 6341 MW
- Net Actual In... 4562 MW
- Net Sched In... -4686 MW
- Total Hydro... 999 MW
- Total Thermal... 999 MW

**Deployed Reserves**
- Limit
  - 903 MW
- Curtail
  - -142 MW

**Wind Generation**
- 0 MW
- 580 MW

**Forecast (ALL PLANTS)**

For Discussion Purposes Only
Configuration Options: Panel Layout
Configuration Options: Panel Layout (cont.)

Deployed Reserves

-13% (4%) Normal

Trends Values Deployed Reserves Wind Generation

Forecast (ALL PLANTS)

Plant Info

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>Plant</th>
<th>Operator</th>
<th>Actual</th>
<th>Scheduled</th>
<th>SCE</th>
<th>Scd Value</th>
<th>HE + 1</th>
<th>Dec Res All</th>
<th>Dep Res</th>
<th>Inc Res Alloc</th>
<th>Limit Target</th>
<th>Cur</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL PLANTS</td>
<td>TOTAL</td>
<td>ALL OPERA.</td>
<td>53.00</td>
<td>91.00</td>
<td>-38.00</td>
<td>53</td>
<td>68</td>
<td>-76</td>
<td>38.00</td>
<td>59</td>
<td>167.00</td>
<td>110</td>
</tr>
<tr>
<td>Chaff Point</td>
<td>CFW</td>
<td>Demo Ener.</td>
<td>52.00</td>
<td>85.00</td>
<td>-33.00</td>
<td>53</td>
<td>64</td>
<td>-43</td>
<td>33.00</td>
<td>33</td>
<td>128.00</td>
<td>86</td>
</tr>
<tr>
<td>Gate Farm</td>
<td>GHF</td>
<td>Demo Ener.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>-13</td>
<td>0.00</td>
<td>10</td>
<td>13.00</td>
<td>10</td>
</tr>
<tr>
<td>ICRS Canyon</td>
<td>ICW</td>
<td>Demo Ener.</td>
<td>1.00</td>
<td>6.00</td>
<td>-5.00</td>
<td>0</td>
<td>4</td>
<td>-20</td>
<td>0.00</td>
<td>16</td>
<td>25.00</td>
<td>17</td>
</tr>
<tr>
<td>Velma Creek</td>
<td>VLM</td>
<td>Demo Ener.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>

For Discussion Purposes Only
Configuration Options: Display Preferences

For Discussion Purposes Only
Configuration Options: Display Preferences (cont.)

For Discussion Purposes Only
Configuration Options: Display Options
Configuration Options: BA Trends

For Discussion Purposes Only
Configuration Options: BA Trends (cont.)

- Deployed Reserves: 3% (22%)
- Balancing Authority Trend
- Forecast (ALL PLANTS)
- Wind Generation

For Discussion Purposes Only
Request for Beta Testers

- BPA is looking for beta testing volunteers
  - Synchronous
  - Asynchronous
- If you’re interested, please contact iCRS Operations and we will send you a list of items in scope for beta testing
- iCRSOperations@bpa.gov with subject of “Beta Feedback”
Questions or Comments to
  • iCRSOperations@bpa.gov