Purpose of meeting:

- Current production status
- Cost & financial matters
- Issues / Bugs
  - Inrush current
  - Units with misreading channels
- Modified mains wiring kit
CAN Branch PSU

- Current production status
  - Deliveries to date shown in table ->
  - Remaining quantities in progress now
  - Rear panels are priority at this time, more expected very soon

<table>
<thead>
<tr>
<th>Unit</th>
<th>Build Qty</th>
<th>Delivered to users</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subracks</td>
<td>41</td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td>Modules</td>
<td>290</td>
<td>33</td>
<td>127</td>
</tr>
<tr>
<td>Rear panels</td>
<td>290</td>
<td>30</td>
<td>2</td>
</tr>
</tbody>
</table>
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- **Final cost**
  - 60% of estimate charged to users to date.
  - Rear panels not charged to users as yet.
  - Incidental costs, if spread across 290 modules adds 43 CHF to each.

- **To balance**
  - Users pay:
    - +15 CHF per module
    - +30 CHF per sub-rack
    - 185 CHF per rear panel

<table>
<thead>
<tr>
<th>Unit</th>
<th>Original estimate (CHF)</th>
<th>Final cost (CHF)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-rack (each)</td>
<td>1500</td>
<td>1168</td>
<td>-22%</td>
</tr>
<tr>
<td>Module (each)</td>
<td>650</td>
<td>361</td>
<td>-45%</td>
</tr>
<tr>
<td>Rear Panel (each)</td>
<td>125</td>
<td>185</td>
<td>-</td>
</tr>
<tr>
<td>Incidental costs (design, prototype &amp; small production)</td>
<td></td>
<td>12,455</td>
<td></td>
</tr>
</tbody>
</table>
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- **Issues / bugs**
  - **Inrush current**
    - A full sub-rack can show an inrush of \(\approx 100\text{A}\) for 1-2 ms.
    - Standard CB on rack distro seems to be 16A C type, which should tolerate 160A for a few ms (100\(x\)N).
    - If several sub-racks are to share a CB, consider using a sequenced distribution block. Available from CERN stores.
Issues / bugs

- Units with misreading channels
  - Visited USA15 yesterday. Problem was due to ELMB configuration being defaulted by the loading of non-standard firmware. It seems this was done to set the address by CAN rather than using the DIP switches.
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- Modified mains wiring
  - Upon request, ESS are working on a modification to the mains wiring for the subrack.
  - This will comprise:
    - A fixed mains flex from the rear panel
    - A circuit breaker/switch on the front panel (protected from accidental operation)
  - ESS will fit this to all remaining subracks & would propose to supply a kit, to install on sub-racks currently in use.
  - This should be available within a few weeks.