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<tr>
<th><strong>Docket Number:</strong></th>
<th>22-BUSMTG-01</th>
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<tbody>
<tr>
<td><strong>Project Title:</strong></td>
<td>Business Meeting Agendas, Transcripts, Minutes, and Public Comments</td>
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<tr>
<td><strong>TN #:</strong></td>
<td>244356</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Business Meeting Presentation (Aug 10, Item 11)</td>
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<tr>
<td><strong>Description:</strong></td>
<td>Vehicle-to-Building for Resilient Backup Power projects</td>
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<tr>
<td><strong>Filer:</strong></td>
<td>Ben Wender</td>
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<td><strong>Organization:</strong></td>
<td>California Energy Commission</td>
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<tr>
<td><strong>Submitter Role:</strong></td>
<td>Commission Staff</td>
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<td><strong>Submission Date:</strong></td>
<td>8/8/2022 8:19:10 AM</td>
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<td><strong>Docketed Date:</strong></td>
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Item 11: Vehicle-to-Building Technologies for Resilient Backup Power (GFO-21-303)

August 10, 2022 Business Meeting

Ben Wender
Energy Research and Development Division
Energy Systems Research Branch
Benefits to Californians

- Enhance customer resilience
- Reduce harmful emissions
- Increase benefits of EVs
11a. The Regents of the University of California, on behalf of Davis Campus

Heavy-Duty Vehicle Electrification and its Potential as a Clean Energy Alternative for Critical Operations

- Implement product enhancements
- Quantify potential battery degradation
- Develop life extending strategies
Electric Farm Vehicles as Reliable Grid Assets

• Mobile on-farm microgrid
• Bidirectional electric tractors
• Backup power for irrigation

≈ 100,000 tractors in CA → ≈ 3 GW charging/discharging load
Scalable, Resilient V2B Multi-Vehicle DC Platform Demonstration at Public Buildings in California

- Rotate multiple vehicles for long-duration backup
- Demonstrated in a disadvantaged, a low income, and a tribal community
- Business case evaluation
Staff Recommendation

• Approve grant agreements
• Adopt staff’s determination that projects are exempt from CEQA