2021 Wildfire & PSPS Preparations

Public Briefings
August 2, 2021
“Nothing is more important than the continued safety and well-being of the communities we serve, as well as the preservation of our environment. We are working tirelessly to integrate new, innovative technologies to significantly decrease the PSPS impacts experienced by our customers and reduce utility-related wildfire risk, while also forging a path towards a more sustainable future.”

Caroline Winn, Chief Executive Officer
SDG&E’s culture of wildfire safety and focus on continuous improvement is shown in its annual preparation for peak wildfire season.
Operational Integration of Innovation + Technology

SDG&E continues to innovate and implement the next generation of situational awareness to advance wildfire preparedness and safety

**Fire Safe 1.0**
- Initiated Weather Network
- Installed Cameras
- Hired Meteorologists
- Added Aerial Support

2008 - 2010

**Fire Safe 2.0**
- Innovated Modeling Tools
- Implemented Real-Time Weather Alerts
- Aggressively Fire-Hardened Infrastructure
- Leveraged Public Safety Power Shutoffs (PSPS)

2011 - 2015

**Fire Safe 3.0**
- Fire Science + Innovation Lab Development
- Artificial Intelligence Implementation
- Created Vegetation Risk Index
- Enabled High-Speed Weather Data

2016 - 2020

**Fire Safe 4.0**
- Weather Network Monitoring Real-Time Fuel Moistures
- Develop Coupled Wildfire and Atmospheric Models
- Direct Integration of Weather AI into Operational Systems
- Real-Time Satellite Wildfire Monitoring/Detection
- Modelling Tools Informing Risk and PSPS
- Modeling Global Climate Change Impacts on Wildfire

2021
Wildfire – WiNGS Model Overview

**Inputs**
- Historical Ignitions
- Overhead Miles
- Hardening Status
- Tree Strike Analysis
- Wind Speeds
- Asset Health
- Wildfire Impacts (Fire Propagation Modeling)

**Outputs**
- Wildfire Risk Score
- PSPS Risk Score

**Likelihood**
- Assessment
- Consequence

**Consequence**
- Assessment

**Mitigation Alternatives Analysis on >600 Circuit Segments**

<table>
<thead>
<tr>
<th>Mitigation</th>
<th>2020-2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
<th>2026</th>
<th>2027</th>
<th>2028</th>
<th>2029</th>
<th>2030</th>
<th>2031</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Wire</td>
<td>235 miles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Covered Conductor</td>
<td>82 miles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>833 miles</td>
<td></td>
</tr>
<tr>
<td>Underground</td>
<td>135 miles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>880 miles</td>
</tr>
</tbody>
</table>

**Long Term Grid Hardening Plan**

- Bare Wire: 235 miles (2020-2022) → Minimal miles
- Covered Conductor: 82 miles (2020-2022) → 833 miles
- Underground: 135 miles (2020-2022) → 880 miles

**Inputs**
- PSPS Probability
- PSPS Duration
- Critical Customers
- Medical Baseline Customers
- Non-Critical Customers
## Wildfire Risk Reduction & PSPS Impact Mitigation

<table>
<thead>
<tr>
<th>Category</th>
<th>2021 Completed/Target</th>
<th>HFTD Hardened</th>
<th>Completed/Target</th>
<th>On Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid Hardening</td>
<td>70.5 / 155 miles</td>
<td>21.8% Since</td>
<td>1176 / 3970</td>
<td>17</td>
</tr>
<tr>
<td>Expulsion Fuse Replacement</td>
<td></td>
<td>70.5% Fuses</td>
<td>Completed</td>
<td>On Target</td>
</tr>
<tr>
<td>PSPS Sectionalizing Devices</td>
<td>8 / 10 devices</td>
<td>35.5% Trees</td>
<td>Total</td>
<td>38,674</td>
</tr>
<tr>
<td>Enhanced Vegetation Management</td>
<td>6,944 / 17,000</td>
<td>35.5% since</td>
<td>Total</td>
<td>1,677</td>
</tr>
<tr>
<td>Generator</td>
<td></td>
<td>since 2014</td>
<td>Sectionalizing</td>
<td>1,364 / 22,000</td>
</tr>
<tr>
<td>Situational Awareness</td>
<td></td>
<td>21.8% Since</td>
<td>On Target</td>
<td>2,806</td>
</tr>
<tr>
<td>Transmission Drone Inspections</td>
<td></td>
<td>755 / 3,500</td>
<td>Completed since</td>
<td>28,781 / 81,000</td>
</tr>
<tr>
<td>Distribution Drone Inspections</td>
<td></td>
<td>223 / 2,715</td>
<td>Completed since</td>
<td>2021</td>
</tr>
<tr>
<td>2021 Completed/Target 17</td>
<td></td>
<td>completed</td>
<td>On Target</td>
<td>100+</td>
</tr>
</tbody>
</table>
## 2021 PSPS Mitigation Measures & Impact Reduction

<table>
<thead>
<tr>
<th>WMP Program</th>
<th>2021 Number of Locations</th>
<th>2021 Customer PSPS Impact Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSPS Sectionalizing</td>
<td>10</td>
<td>5,000</td>
</tr>
<tr>
<td>Fixed Backup Power</td>
<td>413</td>
<td>413</td>
</tr>
<tr>
<td>Resiliency Grant Programs</td>
<td>2000</td>
<td>2,000</td>
</tr>
<tr>
<td>Resiliency Assistance Programs</td>
<td>1250</td>
<td>1,250</td>
</tr>
<tr>
<td>Microgrids</td>
<td>5</td>
<td>1700**</td>
</tr>
<tr>
<td>Undergrounding</td>
<td>9</td>
<td>1,127</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>11,490</strong>*</td>
</tr>
</tbody>
</table>

*Weather events will dictate the actual number of customer impact reductions

**Includes customers in the Campo community near the Cameron Corners microgrid to note reduction of PSPS impacts to customers utilizing services due to microgrid providing power.
**PSPS Decision-Making Framework**

1. **Monitor Fire Condition Forecasts**
   - FPI
   - SAWTI
   - RFW
   - Wildfire vs PSPS Risk Forecast (New)

2. **Establish Circuit List and alert wind speeds based on historical wind patterns**
   - Baseline Alert Wind Speeds
     - Start with 99th Percentile
   - High VRI
     - Adjust for VRI at the segment level
   - Temporary Configuration
     - Adjust for existence of temporary configurations
   - Hardening
     - Adjust for prior hardening

3. **Use Field Information and Real Time Updates to Inform De-energization**
   - Field Observations
     - Adjust based on input from observers
   - Ongoing Fires and/or Ignitions
     - Adjust based on fire resource constraints
   - Suppression Capability
     - Adjust based on aircraft grounding
   - System Performance
     - Adjust based on outages

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1) If fire potential is not extreme, it can also inform adjustments to alert wind speeds
2) Field observations do not change alert speeds
3) Ongoing fires does not adjust alert speeds but rather adjusts our PSPS decision making when reaching alert speed
# PSPS DASHBOARD GUIDE: Overview and New Features

## Device
- **Gust - Alert Speed**
- **VRI**
- **FPI**
- **Links to view**
- **Row Sorting**
- **Notification to DeEnergize**
- **95/99 Percentile**
- **Forecast**
- **Next Update In**
- **Projected Meters**

### Data Yellow / Interactions Blue / Other Green

### Table: PSPS Dashboard

<table>
<thead>
<tr>
<th>Device</th>
<th>Gust Alert Speed</th>
<th>VRI</th>
<th>FPI</th>
<th>District</th>
<th>Sub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ranchita</td>
<td>211-279R</td>
<td>17</td>
<td>15</td>
<td>M</td>
<td>21</td>
</tr>
<tr>
<td>Ammo Dump</td>
<td>12R21X-23</td>
<td>5</td>
<td>10</td>
<td>M</td>
<td>10</td>
</tr>
<tr>
<td>Hollen Canyon</td>
<td>1030-987</td>
<td>5</td>
<td>10</td>
<td>M</td>
<td>20</td>
</tr>
<tr>
<td>Mt. Woodson Golf Club</td>
<td>176-26R</td>
<td>8</td>
<td>15</td>
<td>M</td>
<td>20</td>
</tr>
<tr>
<td>Rainbow Heights</td>
<td>1233-259R</td>
<td>6</td>
<td>15</td>
<td>M</td>
<td>20</td>
</tr>
<tr>
<td>Cameron Corner</td>
<td>440-91</td>
<td>4</td>
<td>20</td>
<td>M</td>
<td>20</td>
</tr>
<tr>
<td>Luca Ranch</td>
<td>214-1122R</td>
<td>4</td>
<td>20</td>
<td>M</td>
<td>20</td>
</tr>
</tbody>
</table>

### Notes:
- **DeEnergized Areas**: DeEnergized Critical Facility Details
- **30 Second Read**: DeEnergized Critical Facility Details
- **PSPS Guide**: DeEnergized Critical Facility Details
- **EOC Web Resources**: DeEnergized Critical Facility Details
- **Admin**: DeEnergized Critical Facility Details

### Last Updated Time: 07/10/2021 08:21

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Revised: July 26, 2021
Mitigating Vegetation Threats

Tree Inspections
• Robust database tracking nearly 460K trees
• Twice-annual inspection of all trees located within the HFTD

Trimming Operations
• Removal of all tree branches overhanging primary wire
• Maximize post-trim clearances
• Prune trees with over-strike potential in HFTD

Vegetation Risk Index
• Merging Meteorology and tree outage data
• Engaging UCSD Supercomputing team to develop risk analysis and predictive modeling
Focusing on Customers

Public Education & Outreach

Diverse Communications
- Public Education Campaign (year-round) - 128 million + impressions forecasted
- Customized Tribal and AFN communications
- More than 20+ communication platforms
- Wildfire safety events: 6 online; 5 in person
- Partner with 200+ community-based organizations
- Communicate in 21 prevalent languages in service territory and American Sign Language
- Dedicated Spanish Communications Manager

Improvements to Notifications

Enhanced Accessibility
- Available in 21 prevalent languages
- DeafLink technology enables notifications in ASL, audio & text
- Address level for non-account holders

Refined Process
- Increased system capacity for faster notifications

Comprehensive Multi-Channel Approach
- Social Media & NewsCenter
- Broadcast media
- In-community road signs
- Community partners
- More detailed maps

Community Resource Centers (CRC)

Locations
• 11 Locations in total across the HFTD + 3 mobile resources
• Resources provided:
  - Bottled water
  - Light snacks
  - Cell phone charging
  - Seating
  - Restrooms
  - Ice
  - Water trucks (for large animals)
• Up-to-date outage event information
• Access & Functional Needs improvements
Public Safety Partners

Secure Portal
Developed with Safety Partner feedback
Launch Sept. 1

Telecom
Annual outreach campaign and webinars
Regular touchpoints

Tribes
Briefings, collaboration, resiliency fairs, enhanced support models
Supporting Customers with Access & Functional Needs

SDG&E partners with 2-1-1 San Diego and Orange County, Indian Health Councils, regional and statewide organizations to identify and support customers with access and functional needs during PSPS events

**Available Services**

- **Enhance Identification & Understanding of AFN Community**
  - Mapped “AFN” customers across database
  - Identified ~30% customers as “AFN”
  - Conducted AFN customer research

- **Enable customers to “self-identify”**
  - Broadened ability to “self-identify” as having an AFN
  - Enhanced messaging and communication materials

- **Collaborate with Community Experts to Identify & Reach**
  - AFN Statewide Council & Regional Working Groups
  - AFN Support Partners (2-1-1 SD, 2-1-1 OC)
  - Partnerships with State Orgs (IHSS)
  - Increased AFN CBOs & focus on PSPS support

**Services**

- Readiness Support
- Accessible Transportation
- Food Support
- Enhanced Notifications (ASL)
- Battery Back-up Programs
- Hotel Stays
- Resiliency Items
- Welfare Checks
- Hotel Stays
- Resiliency Items
- Welfare Checks
- Battery Back-up Programs
- Hotel Stays
- Resiliency Items
- Welfare Checks
Public Safety Partner Feedback
2020 Survey Results

**Great**: “We are very fortunate to have our local utility company take a proactive approach in emergencies and natural disasters. SDG&E has led the example in our state.”

— Rich George, San Diego County Sheriff

**Good**: “Communications to our Office of Emergency Services was good. OES relayed the information to us.”

— Jeff Moneda, San Diego County Department of Public Works

**Fair**: “Might almost be too much? Flood of emails before and after event.”

— Anonymous

Steps taken to address: Streamlined language of emails with input from the public safety partners focus group and will include message information in the PSPS secure portal.

**Poor**: “Residents have indicated that notification to them of power coming back on was poor. Power was back on before the initial notice by phone that they would be restored.”

— Anonymous

Steps taken to address: Increased capacity of auto-dialer to more quickly complete delivery of outbound customer notifications.
Appendix: Additional Information
PSPS Marketing Product Examples

SAN DIEGO GAS & ELECTRIC & WILDFIRE SAFETY

Expanded campaign for 2021

Print

In-Language

Social & Digital Media

Television & Radio

Out-of-Home

Bus Wrap

Bill Insert

Ice Box Wrap

Bus Wrap

Social & Digital Media

Television & Radio

Out-of-Home
PSPS Customer Communications

Augmented and diverse communications tools used to inform customers before, during and after events

**Before Event**
- Year-long dedicated marketing campaigns
- Multiple educational initiatives
- Extensive media and journalist education effort
- Power outage and preparedness videos
- Messaging amplification by 2-1-1 and CBOs
- SD County AFN Emergency Brochure
- Multiple customer surveys and research
- In-language communications

**During Event**
- Leverage 20+ diverse communications platforms
  - Hyper-local targeting via Nextdoor app
  - Media and journalist outreach
- PSPS mobile app and radio PSAs
- In-community and roadside signage
- PSPS community flyer distribution
- Dedicated PSPS and Wildfire Safety webpages
- Message amplification by 2-1-1 and CBOs
- Customer notification refinement to accommodate in-language and AFN customers
- Dedicated Spanish communications manager

**After Event**
- Follow-up customer communications via diverse platforms
- Customer research and campaign refinement
- Continuation of year-long marketing campaigns
Virtual EOC Tours

Virtual EOC tours consist of
• Overview of Emergency Management department and key programs
• Overview of Fire Science & Climate Adaptation department and the key programs
• PSPS protocol overview

Annual invitees include
• Senior and elected officials
• Regional Emergency Managers
• Public Safety Partners
• Other utility agency representatives
• Fire & Law representatives
• Local community-based organization representatives
• Tribal partners
Accessible PSPS Notifications

- New DeafLink technology (utilized by San Diego County OES) added to all PSPS notifications
- Includes:
  - Video of American Sign Language Interpreter
  - Audio readout voice over
  - Closed captioning of the message
- Will greatly enhance accessibility of PSPS notifications for people with sensory disabilities
- Transcript of message are also available in all 21 prevalent languages by embedded link to website
Medical Baseline

SDG&E customers enrolled in the Medical Baseline Program for June 1, 2019–present

<table>
<thead>
<tr>
<th></th>
<th>Enrollment as of June 1, 2019 (approx.)</th>
<th>Enrollment as of June 1, 2020 (approx.)</th>
<th>Enrollment as of June 1, 2021 (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>51,000</td>
<td>57,000</td>
<td>66,000</td>
</tr>
<tr>
<td>HFTD</td>
<td>9,000</td>
<td>11,000</td>
<td>12,000</td>
</tr>
</tbody>
</table>
Mitigation: Backup Generators

Backup generators provided to critical facilities customers in 2019, 2020 and planned for 2021

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2020*</th>
<th>2021**</th>
<th>Total (actual + planned)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

* Includes temporary generators
** Includes microgrids.
Mitigation: Battery Storage

Number of battery storage devices provided to customers through SDG&E’s Generator Grant Assistance Program in 2019, 2020 and planned for 2021, as well as the maximum performance in hours

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2020</th>
<th>2021 (planned)</th>
<th>Total (actual + planned)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of customers provided with devices</td>
<td>65</td>
<td>1,420</td>
<td>2,000</td>
<td>3,485</td>
</tr>
<tr>
<td>Maximum performance (hours)*</td>
<td>3,055</td>
<td>66,740</td>
<td>94,000</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Using CPAP as an example, 65 Wh CPAP with fully charged Yeti 3000x = 47 hours of runtime per charge.
Source: Goal Zero Tech Specs [Yeti 3000X Portable Power Station | Goal Zero / Goal Zero](http://www.sdge.com/ggp)
Mitigation: Grid Hardening

Near Term

- PSPS Sectionalizing devices can reduce scope of PSPS
- Backup power programs can reduce the impact of PSPS to customers

Long Term

- WiNGS-informed grid hardening strategies to reduce wildfire risk and PSPS impacts

Key Considerations

- Circuit topology may require multiple segments on a circuit to be hardened in order to realize full benefits
- Full segment hardening is necessary to maximize benefits to customers
- Hardening projects take 18 – 24 months to implement
- Circuit hardening status is a key consideration in PSPS decision-making

Illustrative Segment Analysis

<table>
<thead>
<tr>
<th>Probability</th>
<th>Pre-Mitigation</th>
<th>Post-Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Underground</td>
<td>Covered Conductor</td>
</tr>
<tr>
<td>Probability</td>
<td>50%</td>
<td>0%</td>
</tr>
<tr>
<td>Consequence</td>
<td>1000 Customers</td>
<td>1000 Customers</td>
</tr>
</tbody>
</table>
# PSPS Reduction Over Time

*Risk-informed grid hardening measures support long-term vision of reducing PSPS impacts*

<table>
<thead>
<tr>
<th>Mitigation</th>
<th>How it Reduces PSPS</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covered Conductor</td>
<td>Allows utility to raise threshold(^1) for de-energization</td>
<td><strong>Scope of PSPS</strong></td>
</tr>
<tr>
<td>Undergrounding</td>
<td>Reduces necessity of shut-off</td>
<td><strong>Frequency of PSPS</strong></td>
</tr>
<tr>
<td>PSPS Sectionalizing</td>
<td>Enables more targeted de-energization</td>
<td><strong>Duration of PSPS</strong></td>
</tr>
<tr>
<td>Microgrids</td>
<td>Keeps communities energized during shut-off</td>
<td></td>
</tr>
<tr>
<td>Fixed Backup Power</td>
<td>Keeps customers energized during shut-off</td>
<td></td>
</tr>
<tr>
<td>Resiliency Grant Programs</td>
<td>Provides backup solutions to keep critical appliances/equipment energized during shut-off</td>
<td></td>
</tr>
<tr>
<td>Resiliency Assistance Programs</td>
<td>Provides instant rebates to customers to purchase backup generators to reduce their PSPS impacts</td>
<td></td>
</tr>
</tbody>
</table>

1) Adjustments to de-energization thresholds based on new mitigations such as covered conductor are still under development
PSPS Website Highlights

**Accessibility**

- Website built to Web Content Accessibility Guidelines (WCAG) 2.1.
- Coded “lite” to help low-bandwidth customers be able to use the page.
- Page available in 21 languages (use same Google widget as [https://www.cpuc.ca.gov/](https://www.cpuc.ca.gov/)).

**Stability and Performance**

- Website is built on Amazon Web Service’s (AWS) cloud infrastructure.
- Increase web servers as traffic and bandwidth increase.
- Utilize a Content Delivery Network (CDN) that caches the page to different regions (think Black Friday).

**Other Highlights**

- New AFN landing page has even more resources and personalized experience.
- CRC look-up tool will be a new feature this year.
- Data source for website is same as other PSPS systems to ensure consistency and accuracy.

**Integrated Communications**

When PSPS customer notifications are issued **48 hours** prior to an event, the PSPS dashboard is launched in parallel at sdge.com/Ready

The page is available until we end the event.

When there is no event customers can find:

- Preparedness information
- Safety tips
- Checklists, and
- Videos
## Incorporations of Lessons Learned

<table>
<thead>
<tr>
<th>2020 PSPS Key Lesson Learned Action Item</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple, simultaneous incidents, customer messages were not timed to ensure the customer notification system could accommodate the volume of notifications and various message types in the appropriate timeframes.</td>
<td>The capacity of the notification platform was expanded to accommodate a higher volume of notifications.</td>
</tr>
<tr>
<td>PSPS event converged with other emergencies (Load curtailment &amp; Valley Fire), the timing and content of SDG&amp;E’s messaging was unclear at times and caused confusion for public safety partners.</td>
<td>Conducted an ad-hoc workshop for public safety partners, when converging events occur, a clear distinction will be made in overall messaging.</td>
</tr>
<tr>
<td>SDG&amp;E website and internal PSPS de-energization dashboard at times did not match, creating confusion about the timing of the “all clear” message sent at the PSPS event conclusion.</td>
<td>Corrected the timing of the synchronizations so they were on the same cycle.</td>
</tr>
<tr>
<td>Feedback on the maps on the SDG&amp;E website and Alerts by SDG&amp;E mobile app was that they were not as user friendly as they could be.</td>
<td>Maps were improved on both platforms.</td>
</tr>
</tbody>
</table>
# AFN Working Group Feedback

<table>
<thead>
<tr>
<th>Working Group Feedback</th>
<th>SDG&amp;E Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promote availability of support via 2-1-1 during PSPS</td>
<td>Robust marketing campaign promoting 211 services including flyers, web and media; extensive partner trainings</td>
</tr>
<tr>
<td>Utilize print flyers and newsletters to reach individuals that do not use or own electronic media devices</td>
<td>Distribution of a flyer with information about assistance programs, contact information customer can use</td>
</tr>
<tr>
<td>AFN point of contact for SDG&amp;E for customers and partners to utilize during PSPS</td>
<td>Established dedicated email <a href="mailto:AFNsupport@sdge.com">AFNsupport@sdge.com</a> and dedicated landing page for customers with AFN at <a href="http://www.sdge.com/AFN">www.sdge.com/AFN</a></td>
</tr>
<tr>
<td>Coordinate emergency messaging to standardize the format, timing, and distribution between the various stakeholders</td>
<td>Developed Information Sharing Template with single source event information, that will be sent out at the same interval and timing of other partners</td>
</tr>
<tr>
<td>Preparedness and safety outreach to those with limited cell or broadband service and those off the grid entirely within the HFTD with a trusted organization</td>
<td>Partnering with Community Emergency Response Team (CERT) from rural communities for PSPS outreach to canvas areas with little or no internet or cell service</td>
</tr>
</tbody>
</table>
Advanced PSPS Risk Modeling

**Inputs**

- Wildfire Risk Probability
- Buildings Impacted
- Population Impacted
- Acres Burned

**Assessment**

- LoRE
- CoRE

**Outputs**

- Wildfire Risk Score
- PSPS Risk Score

**Assessment**

- LoRE
- CoRE

**Inputs**

- PSPS Probability
- PSPS Duration
- Critical Customers
- Medical Baseline Customers
- Non-Critical Customers

<table>
<thead>
<tr>
<th>Segment</th>
<th>Wildfire Risk Score</th>
<th>PSPS Risk Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Segment 1</td>
<td>500</td>
<td>200</td>
</tr>
<tr>
<td>Segment 2</td>
<td>650</td>
<td>315</td>
</tr>
<tr>
<td>…</td>
<td>…</td>
<td>…</td>
</tr>
<tr>
<td>Segment n</td>
<td>300</td>
<td>400</td>
</tr>
</tbody>
</table>

LoRE: Likelihood of Risk Event
CoRE: Consequence of Risk Event