



# Hurricane Dorian - Advisory 44

For Planning Purposes Only!

WASHINGTON, DC  
07:28:08  
04 Sep 2019

CHICAGO  
06:28:08  
04 Sep 2019

LOS ANGELES  
04:28:08  
04 Sep 2019

[http://simsuite.usace.army.mil/wab/v2.10/index.html?config=config-mission-models.json&\\_25=89](http://simsuite.usace.army.mil/wab/v2.10/index.html?config=config-mission-models.json&_25=89)

Updated as of 4 Sep 2019 (7:28 AM Eastern Daylight Time)



## Debris

899,327  
cu. yd.

North Carolina 64% (575,793)

South Carolina 36% (323,533)

Florida <1% (0)

Georgia <1% (0)

Maryland <1% (0)

Massachusetts <1% (0)

Virginia <1% (0)



## Temporary Roofing

1,069  
units

North Carolina 64% (684)

South Carolina 36% (384)

Florida <1% (0)

Georgia <1% (0)

Maryland <1% (0)

Massachusetts <1% (0)

Virginia <1% (0)



## Population

10,863,200  
people

Florida 40% (4,302,572)

North Carolina 22% (2,421,228)

South Carolina 16% (1,737,544)

Virginia 12% (1,357,455)

Georgia 7% (745,751)

Massachusetts 2% (247,464)

Maryland <1% (51,186)

## Households



3,582,328  
households

Florida 38% (1,377,078)

North Carolina 23% (808,474)

South Carolina 16% (559,112)

Virginia 13% (473,289)

Georgia 7% (239,739)


Massachusetts 3% (104,942)

Maryland <1% (19,694)



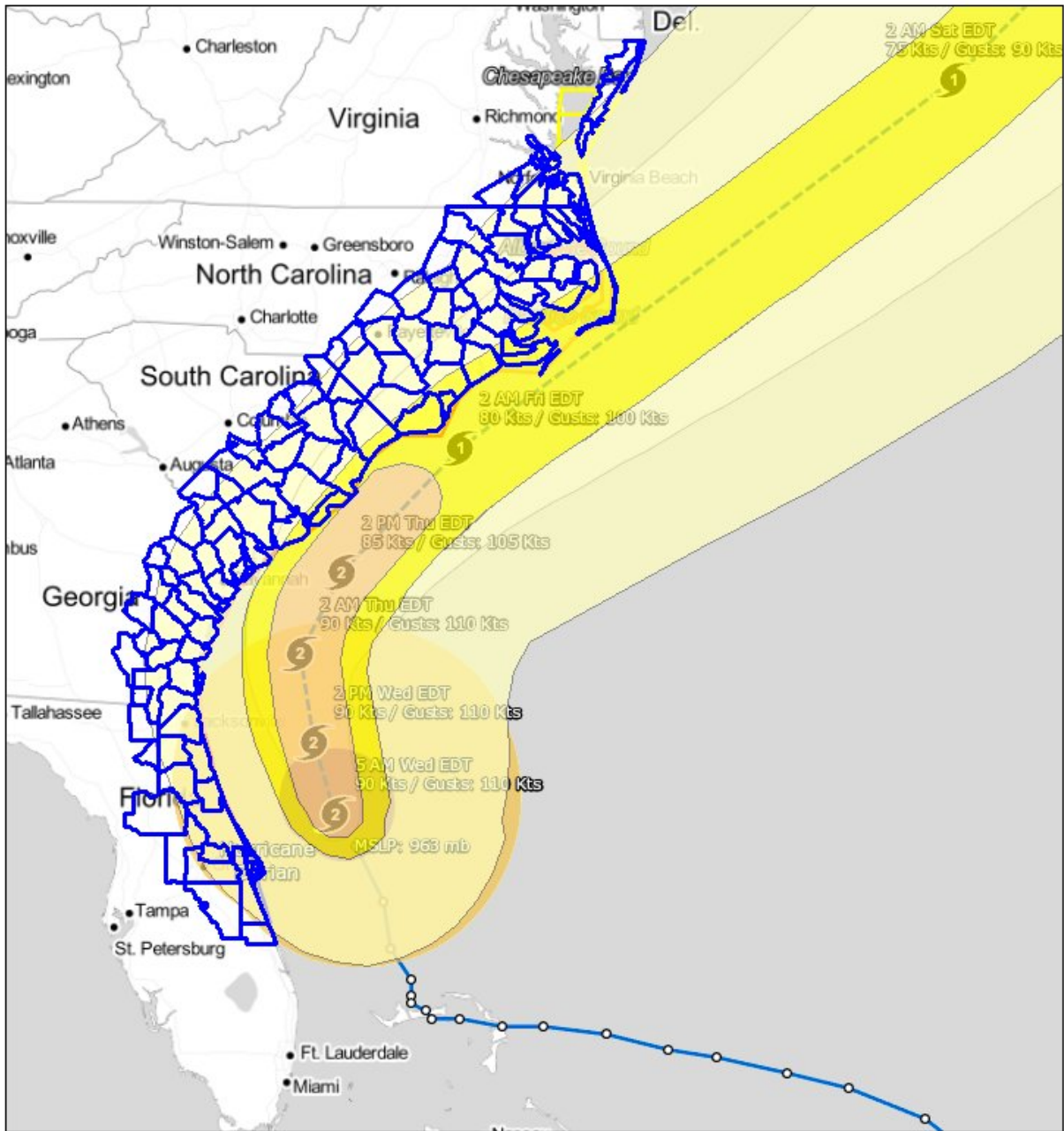
**Critical  
Infrastructure**

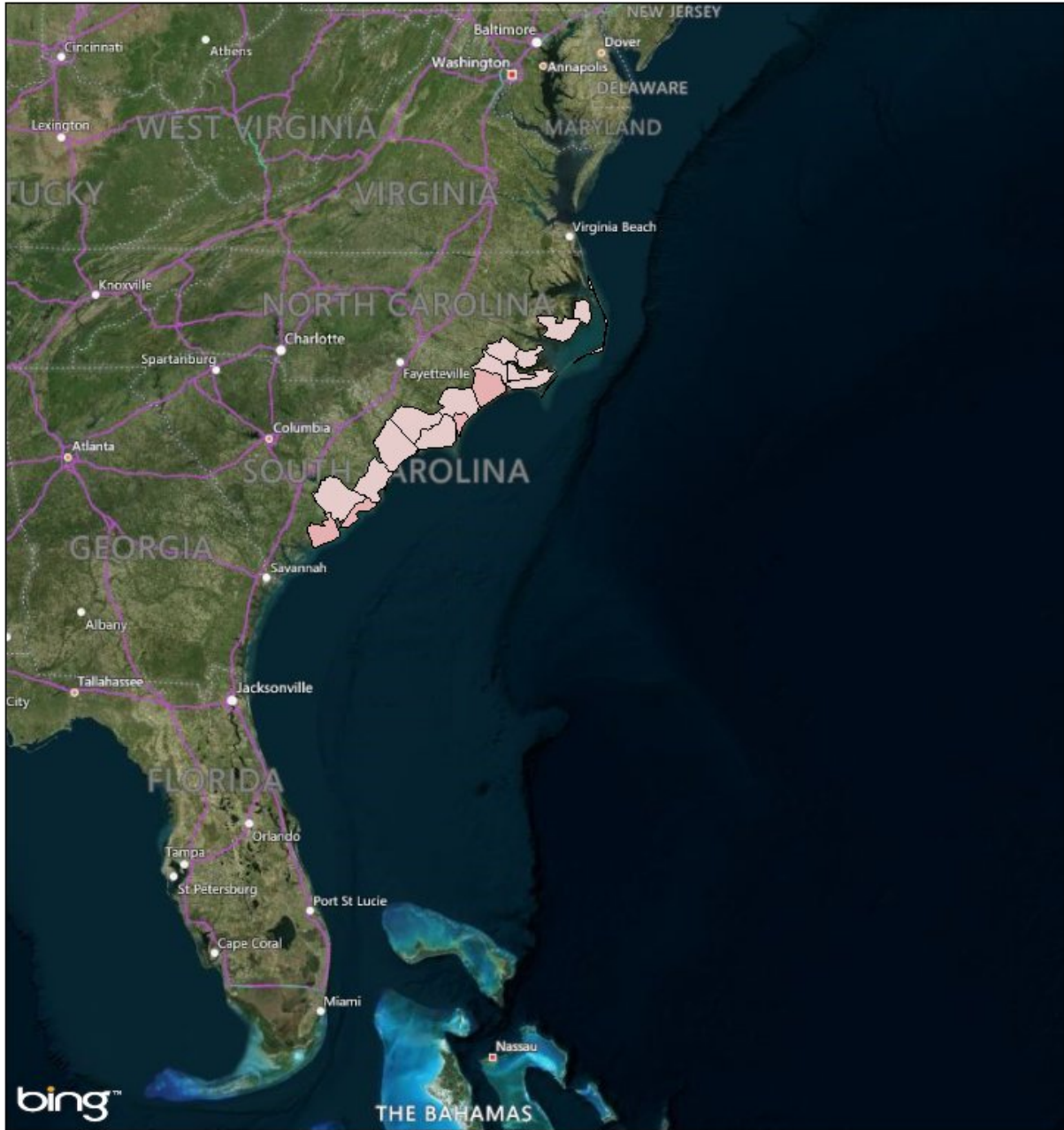
North Carolina

-  (1) 15 - 35 kW
-  (2) 15 - 40 kW
-  (1) 35 - 75 kW
-  (1) 35 - 100 kW
-  (4) 40 - 100 kW
-  (5) 200 - 300 kW
-  (2) 400 - 600 kW
-  (6) 800 - 2000 kW

South Carolina

-  (1) 15 - 35 kW
-  (2) 35 - 75 kW
-  (1) 40 - 100 kW
-  (3) 200 - 300 kW
-  (7) 800 - 2000 kW



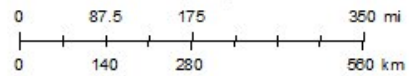


**Mission Summaries**

**Debris**

- < 100,000 cubic yards
- 100,000 - 249,000 cubic yards

1:10,271,832



## Mission Summary



The mission models account for storm surge and wind damage only, but do not account for other related storm hazards that may affect the mission estimates.

| Mission Summary           |                |
|---------------------------|----------------|
| Total Counties            | 117            |
| Debris (cu. yd.)          | 899,327        |
| Temporary Roofing (units) | 1,069          |
| Population                | 10,863,200.061 |
| Households                | 3,582,328.129  |

| Population Distribution |           |
|-------------------------|-----------|
| Tropical Storm          | 9,766,811 |
| Category 1              | 1,029,737 |
| Category 2              | 139       |

| FLORIDA      | Yards of Debris (0) | Roof Units (0) | Population (4,302,572) | Households (1,377,078) |
|--------------|---------------------|----------------|------------------------|------------------------|
| Baker        | 0                   | 0              | 3,747                  | 987                    |
| Bradford     | 0                   | 0              | 2,072                  | 605                    |
| Brevard      | 0                   | 0              | 558,359                | 198,195                |
| Clay         | 0                   | 0              | 192,632                | 50,243                 |
| Duval        | 0                   | 0              | 904,256                | 303,747                |
| Flagler      | 0                   | 0              | 96,812                 | 21,294                 |
| Indian River | 0                   | 0              | 2,161                  | 741                    |
| Lake         | 0                   | 0              | 91,193                 | 26,328                 |
| Marion       | 0                   | 0              | 21,666                 | 6,728                  |
| Nassau       | 0                   | 0              | 73,872                 | 21,980                 |
| Orange       | 0                   | 0              | 1,118,349              | 336,286                |
| Osceola      | 0                   | 0              | 37,888                 | 8,196                  |
| Putnam       | 0                   | 0              | 74,733                 | 27,839                 |
| Seminole     | 0                   | 0              | 424,370                | 139,572                |
| St. Johns    | 0                   | 0              | 191,550                | 49,614                 |
| Volusia      | 0                   | 0              | 508,913                | 184,723                |

| <b>GEORGIA</b> | <b>Yards of Debris (0)</b> | <b>Roof Units (0)</b> | <b>Population (745,751)</b> | <b>Households (239,739)</b> |
|----------------|----------------------------|-----------------------|-----------------------------|-----------------------------|
| Appling        | 0                          | 0                     | 1,797                       | 658                         |
| Brantley       | 0                          | 0                     | 16,170                      | 5,436                       |
| Bryan          | 0                          | 0                     | 33,573                      | 8,089                       |
| Bulloch        | 0                          | 0                     | 68,185                      | 20,743                      |
| Camden         | 0                          | 0                     | 49,602                      | 14,705                      |
| Candler        | 0                          | 0                     | 43                          | 13                          |
| Charlton       | 0                          | 0                     | 10,802                      | 3,342                       |
| Chatham        | 0                          | 0                     | 258,954                     | 89,865                      |
| Effingham      | 0                          | 0                     | 54,219                      | 13,151                      |
| Evans          | 0                          | 0                     | 11,936                      | 3,778                       |
| Glynn          | 0                          | 0                     | 78,471                      | 27,208                      |
| Liberty        | 0                          | 0                     | 60,111                      | 19,383                      |
| Long           | 0                          | 0                     | 11,865                      | 3,574                       |
| McIntosh       | 0                          | 0                     | 11,990                      | 4,202                       |
| Pierce         | 0                          | 0                     | 18,212                      | 5,958                       |
| Screven        | 0                          | 0                     | 15,440                      | 5,797                       |
| Tattnall       | 0                          | 0                     | 10,922                      | 3,278                       |
| Ware           | 0                          | 0                     | 3,297                       | 1,235                       |
| Wayne          | 0                          | 0                     | 30,162                      | 9,324                       |

| <b>MARYLAND</b> | <b>Yards of Debris (0)</b> | <b>Roof Units (0)</b> | <b>Population (51,186)</b> | <b>Households (19,694)</b> |
|-----------------|----------------------------|-----------------------|----------------------------|----------------------------|
| Worcester       | 0                          | 0                     | 51,186                     | 19,694                     |

| <b>MASSACHUSETTS</b> | <b>Yards of Debris (0)</b> | <b>Roof Units (0)</b> | <b>Population (247,464)</b> | <b>Households (104,942)</b> |
|----------------------|----------------------------|-----------------------|-----------------------------|-----------------------------|
| Barnstable           | 0                          | 0                     | 221,015                     | 94,822                      |
| Dukes                | 0                          | 0                     | 15,716                      | 6,421                       |
| Nantucket            | 0                          | 0                     | 10,733                      | 3,699                       |

| <b>NORTH CAROLINA</b> | <b>Yards of Debris<br/>(575,793)</b> | <b>Roof Units (684)</b> | <b>Population (2,421,228)</b> | <b>Households (808,474)</b> |
|-----------------------|--------------------------------------|-------------------------|-------------------------------|-----------------------------|
| Beaufort              | 0                                    | 0                       | 46,951                        | 18,319                      |
| Bertie                | 0                                    | 0                       | 20,019                        | 7,743                       |
| Bladen                | 0                                    | 0                       | 32,577                        | 12,897                      |
| Brunswick             | 81,934                               | 97                      | 113,235                       | 30,438                      |
| Camden                | 0                                    | 0                       | 10,301                        | 2,662                       |
| Carteret              | 67,845                               | 81                      | 64,494                        | 25,204                      |
| Chowan                | 0                                    | 0                       | 14,807                        | 5,580                       |
| Columbus              | 10,910                               | 13                      | 54,910                        | 21,312                      |
| Craven                | 28,867                               | 34                      | 99,813                        | 34,582                      |
| Cumberland            | 0                                    | 0                       | 324,167                       | 107,358                     |
| Currituck             | 0                                    | 0                       | 24,830                        | 6,902                       |
| Dare                  | 11,291                               | 13                      | 34,001                        | 12,688                      |
| Duplin                | 0                                    | 0                       | 54,388                        | 18,267                      |
| Edgecombe             | 0                                    | 0                       | 52,057                        | 20,392                      |
| Gates                 | 0                                    | 0                       | 12,160                        | 3,901                       |
| Greene                | 0                                    | 0                       | 21,331                        | 6,696                       |
| Halifax               | 0                                    | 0                       | 16,915                        | 6,779                       |
| Harnett               | 0                                    | 0                       | 22,547                        | 6,596                       |
| Hertford              | 0                                    | 0                       | 23,672                        | 8,953                       |
| Hoke                  | 0                                    | 0                       | 17,762                        | 4,366                       |
| Hyde                  | 2,704                                | 3                       | 5,428                         | 2,185                       |
| Johnston              | 0                                    | 0                       | 174,426                       | 46,595                      |
| Jones                 | 2,015                                | 2                       | 10,288                        | 4,061                       |
| Lenoir                | 0                                    | 0                       | 57,180                        | 23,862                      |
| Martin                | 0                                    | 0                       | 23,823                        | 10,020                      |
| Nash                  | 0                                    | 0                       | 4,162                         | 1,466                       |
| New Hanover           | 183,538                              | 218                     | 199,320                       | 68,183                      |
| Northampton           | 0                                    | 0                       | 7,499                         | 3,097                       |
| Onslow                | 129,537                              | 154                     | 172,836                       | 48,122                      |
| Pamlico               | 13,938                               | 17                      | 12,853                        | 5,178                       |
| Pasquotank            | 0                                    | 0                       | 42,443                        | 12,907                      |
| Pender                | 43,215                               | 51                      | 54,546                        | 16,054                      |
| Perquimans            | 0                                    | 0                       | 13,145                        | 4,645                       |
| Pitt                  | 0                                    | 0                       | 162,304                       | 52,539                      |
| Robeson               | 0                                    | 0                       | 132,092                       | 43,677                      |
| Sampson               | 0                                    | 0                       | 65,513                        | 22,273                      |
| Scotland              | 0                                    | 0                       | 10,635                        | 3,845                       |
| Tyrrell               | 0                                    | 0                       | 4,244                         | 1,537                       |
| Washington            | 0                                    | 0                       | 12,996                        | 5,367                       |
| Wayne                 | 0                                    | 0                       | 115,330                       | 42,612                      |
| Wilson                | 0                                    | 0                       | 79,228                        | 28,613                      |

| <b>SOUTH CAROLINA</b> | <b>Yards of Debris<br/>(323,533)</b> | <b>Roof Units (384)</b> | <b>Population (1,737,544)</b> | <b>Households (559,112)</b> |
|-----------------------|--------------------------------------|-------------------------|-------------------------------|-----------------------------|
| Allendale             | 0                                    | 0                       | 10,678                        | 3,915                       |
| Bamberg               | 0                                    | 0                       | 15,647                        | 6,123                       |
| Barnwell              | 0                                    | 0                       | 1,450                         | 563                         |
| Beaufort              | 0                                    | 0                       | 163,012                       | 45,532                      |
| Berkeley              | 20,362                               | 24                      | 175,573                       | 49,922                      |
| Calhoun               | 0                                    | 0                       | 6,347                         | 2,398                       |
| Charleston            | 187,666                              | 223                     | 361,464                       | 123,290                     |
| Clarendon             | 0                                    | 0                       | 34,508                        | 11,812                      |
| Colleton              | 0                                    | 0                       | 39,678                        | 14,470                      |
| Darlington            | 0                                    | 0                       | 31,369                        | 12,007                      |
| Dillon                | 0                                    | 0                       | 30,941                        | 11,199                      |
| Dorchester            | 0                                    | 0                       | 134,691                       | 34,709                      |
| Florence              | 0                                    | 0                       | 136,016                       | 47,147                      |
| Georgetown            | 36,261                               | 43                      | 39,261                        | 13,283                      |
| Hampton               | 0                                    | 0                       | 21,122                        | 7,444                       |
| Horry                 | 79,245                               | 94                      | 279,384                       | 81,787                      |
| Jasper                | 0                                    | 0                       | 23,438                        | 7,042                       |
| Lee                   | 0                                    | 0                       | 4,198                         | 1,427                       |
| Marion                | 0                                    | 0                       | 34,336                        | 13,301                      |
| Marlboro              | 0                                    | 0                       | 13,762                        | 4,973                       |
| Orangeburg            | 0                                    | 0                       | 91,486                        | 34,118                      |
| Sumter                | 0                                    | 0                       | 52,688                        | 18,936                      |
| Williamsburg          | 0                                    | 0                       | 36,494                        | 13,714                      |

| <b>VIRGINIA</b> | <b>Yards of Debris (0)</b> | <b>Roof Units (0)</b> | <b>Population (1,357,455)</b> | <b>Households (473,289)</b> |
|-----------------|----------------------------|-----------------------|-------------------------------|-----------------------------|
| Accomack        | 0                          | 0                     | 11,264                        | 4,441                       |
| Chesapeake      | 0                          | 0                     | 223,279                       | 69,900                      |
| Franklin City   | 0                          | 0                     | 8,556                         | 3,384                       |
| Hampton         | 0                          | 0                     | 146,762                       | 53,887                      |
| Isle of Wight   | 0                          | 0                     | 18,402                        | 5,733                       |
| Newport News    | 0                          | 0                     | 58,041                        | 22,270                      |
| Norfolk         | 0                          | 0                     | 236,947                       | 86,210                      |
| Northampton     | 0                          | 0                     | 13,729                        | 5,321                       |
| Poquoson        | 0                          | 0                     | 12,083                        | 4,166                       |
| Portsmouth      | 0                          | 0                     | 99,998                        | 38,170                      |
| Southampton     | 0                          | 0                     | 2,621                         | 866                         |
| Suffolk         | 0                          | 0                     | 85,224                        | 23,283                      |
| Virginia Beach  | 0                          | 0                     | 436,642                       | 154,455                     |
| York            | 0                          | 0                     | 3,908                         | 1,203                       |



## Critical Infrastructure

| Summary  |               |            |          |
|--|---------------|------------|----------|
| Total Structures                                       |               | 860        |          |
| Power Requirements                                     |               | 27,883.6   |          |
| Range (kW)   |               |            |          |
| Communications   | # FED Gen Req | Range (kW) | Req kW   |
| AM Antennas (25)                                       | 1.3           | 35 - 75    | 68.8     |
| Cellular Towers (1)                                    | 0.6           | 35 - 75    | 33.0     |
| FM Antennas (99)                                       | 5.0           | 35 - 75    | 272.3    |
| Education  | # FED Gen Req | Range (kW) | Req kW   |
| Private Schools (89)                                   | 0.0           | 200 - 300  | 0.0      |
| Public Schools (2)                                     | 0.6           | 200 - 300  | 150.0    |
| Colleges and Universities (18)                         | 0.4           | 200 - 300  | 90.0     |
| Emergency Services                                     | # FED Gen Req | Range (kW) | Req kW   |
| 911 Call Centers (4)                                   | 0.4           | 15 - 35    | 10.0     |
| Emergency Medical Service (5)                          | 0.5           | 15 - 35    | 12.5     |
| Fire Stations (7)                                      | 0.7           | 15 - 35    | 17.5     |
| Service Providers (1)                                  | 0.0           | 0 - 0      | 0.0      |
| Healthcare   | # FED Gen Req | Range (kW) | Req kW   |
| Nursing Homes (9)                                      | 1.3           | 35 - 100   | 91.1     |
| Hospitals (25)   | 7.5           | 800 - 2000 | 10,500.0 |
| Urgent Care Facilities (46)                            | 9.2           | 200 - 300  | 2,300.0  |
| Military   | # FED Gen Req | Range (kW) | Req kW   |
| Air National Guard (ANG) Sites (0)                     | 0.0           | 15 - 35    | 0.0      |
| Army National Guard (ARNG) Sites (12)                  | 0.0           | 15 - 35    | 0.0      |
| National Security Government Military Facilities (194) | 0.0           | 15 - 35    | 0.0      |
| Law Enforcement  | # FED Gen Req | Range (kW) | Req kW   |
| Prison Points (14)                                     | 2.8           | 400 - 600  | 1,400.0  |
| Local Police (49)                                      | 4.9           | 15 - 35    | 122.5    |
| State Police (7)                                       | 0.4           | 15 - 35    | 8.8      |
| Correctional Facilities (0)                            | 0.0           | 400 - 600  | 0.0      |
| State and Local EOC                                    | # FED Gen Req | Range (kW) | Req kW   |
| Local Emergency Operations Centers (11)                | 2.2           | 15 - 40    | 60.5     |
| State Emergency Operation Centers (EOCs) (0)           | 0.0           | 15 - 35    | 0.0      |

| State Facilities                    | # FED Gen Req | Range (kW) | Req kW |
|-------------------------------------|---------------|------------|--------|
| Governors Mansion (0)               | 0.0           | 100 - 200  | 0.0    |
| Major State Government Building (1) | 0.1           | 100 - 200  | 15.0   |

| Transportation                      | # FED Gen Req | Range (kW) | Req kW |
|-------------------------------------|---------------|------------|--------|
| Ports (138)                         | 0.0           | 600 - 1200 | 0.0    |
| Amtrak Stations (0)                 | 0.0           | 100 - 300  | 0.0    |
| Bus Stations (22)                   | 0.0           | 100 - 300  | 0.0    |
| Intermodal Terminal Facilities (10) | 0.0           | 100 - 300  | 0.0    |
| Railroad Stations (0)               | 0.0           | 100 - 300  | 0.0    |
| Public-Use Airports (49)            | 5.9           | 40 - 100   | 411.6  |

| Water_Waster Water               | # FED Gen Req | Range (kW) | Req kW   |
|----------------------------------|---------------|------------|----------|
| Water Treatment Facilities (0)   | 0.0           | 800 - 2000 | 0.0      |
| Wastewater Treatment Plants (22) | 8.8           | 800 - 2000 | 12,320.0 |

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