

ESF-12: ENERGY

RESPONSIBLE AGENCIES

Lead Agency: Collier County Emergency Management Division

Florida Power & Light

Lee County Electric Co-op

Collier County Growth Management
Community Development Department

Mutual Aid

All jurisdictions that have entered into the Statewide Mutual Aid Agreement

PURPOSE

Restore to the community normal supplies of electricity and fuel supplies as soon as possible after a disaster event. Prioritize all energy and utility repairs.

CONCEPT OF OPERATIONS

1. Maintain energy system integrity and minimize impact.
2. Assess energy system damages, coordinate relief efforts, and restore normal service when emergency is over.

ORGANIZATION

In the Incident Management System, ESF-12 is a function in the Infrastructure Branch and reports through the Operations Section, Response Unit.

RESPONSIBILITIES

Communicate and coordinate with local, State and Federal agencies; public and private utilities; and other related organizations regarding energy emergencies and energy restoration.

ACTIONS

Preparedness

1. Perform a preliminary vulnerability assessment based upon projected impact to the energy infrastructure.
2. Preposition fuel and transportation resources based upon vulnerability assessment.

Response

1. Evaluate the energy needs of the County based upon damage assessment data and any other reliable sources.
2. Arrange for the transportation of fuels to meet the emergency needs of the County.

3. Coordinate with ESF-3 for the priority repair of any infrastructure required to facilitate the movement of fuels.
4. Plan, coordinate and implement operations relative to the restoration of the energy infrastructure.
5. Energy system damage will be readily apparent after a disaster. The two electric companies, public water utilities and telephone companies will provide service in accordance with their own restoration plans as well as the requirements under County Ordinance 98-62.

Recovery

Assess mitigation needs.

Mitigation

Coordinate mitigation projects (e.g., availability of generators for emergency power).

INTERFACE

Damage Assessment

ESF-6 - Mass Care

ESF-3 - Public Works and Engineering

ESF-14 - Public Information



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Approximate Fuel Consumption Chart

This chart approximates the fuel consumption of a diesel generator based on the size of the generator and the load at which the generator is operating at. Please note that this table is intended to be used as an estimate of how much fuel a generator uses during operation and is not an exact representation due to various factors that can increase or decrease the amount of fuel consumed.

Gen				
30	1.3	1.8	2.4	2.9
60	1.8	2.9	3.8	4.8
100	2.6	4.1	5.8	7.4
135	3.3	5.4	7.6	9.8
175	4.1	6.8	9.7	12.7
230	5.3	8.8	12.5	16.6
300	6.8	11.3	16.1	21.5
400	8.9	14.9	21.3	28.6
600	13.2	22.0	31.5	42.8
1000	21.6	36.4	52.1	71.1
1500	32.2	54.3	77.8	106.5
2000	42.8	72.2	103.5	141.9

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