



Annex L: Emergency Support Function #12 – Energy

November 2020

Coordinating Agency

Hamilton County Engineer's Office

Supporting Agencies

Hamilton County Environmental Services

Hamilton County Facilities

Hamilton County Sheriff's Office

Duke Energy

Introduction

Purpose

The purpose of Emergency Support Function (ESF) #12 – Energy is to establish how activities related to emergency utility services will be coordinated during and after disasters to meet the emergency needs of Hamilton County, OH. This ESF describes the operational components as well as roles and responsibilities of the agencies necessary to fulfill the duties of ESF #12.

Scope

ESF #12 serves to coordinate activities related to energy in Hamilton County during the response and recovery phases of the emergency management cycle. During and shortly after the incident, ESF #12 is responsible for the assessment of damages to energy infrastructure, the development of alternate energy sources, and the identification of potential energy resources in support of Logistics Coordination Support Section in the Hamilton County Emergency Operations Center (EOC) and in support of Incident Command as requested.

Activities of ESF #12 include providing information for county-level assessment, response and recovery operations related to fuel shortages, power outages, transmission /distribution problems, and capacity shortages that may impact Hamilton County citizens during disasters. ESF #12 also provides information available on the transportation of fuel, sources for the provision of emergency power to support immediate response operations and the restoration of normal energy supplies to energy-affected communities. ESF #12 coordinates and supports county wide utility resources in response and recovery efforts of local governments and other ESFs. ESF #12 helps utility suppliers coordinate resources and supplies public information. ESF #12 collects, evaluates, and shares information on energy system damage and estimations on the impact of energy system outages within affected areas. Additionally, ESF #12 provides information concerning the energy restoration process such as projected schedules, percent completion of restoration, and geographic information on the restoration.

Depending upon the requirements of the disaster, ESF #12 may also address the following:

1. Liaison with councils and associations representing energy providers. Assessing energy system damage, energy supply, energy demand and restoration needs of investor-owned energy systems.
2. Assisting local, county, and state emergency organizations in identifying energy needed for emergency operations with businesses that provide/offer such products.
3. Recommending actions to save energy.
4. Coordination with local, county, state, and federal ESF #12 in providing energy information and conservation guidance.

5. Relaying energy industry policies for energy restoration priorities.

Situation

Energy shortages may be the result of the following conditions:

1. Generation capacity shortfalls, which can be the result of extreme weather conditions, such as tornadoes, floods, blizzards, and severe storms.
2. Generation capacity shortfalls due to unusually high demand or unplanned generating outages.
3. Interruptions in the supply of natural gas, petroleum fuels, propane, heating oil, and coal may result from natural hazards, strikes, explosions, terrorism or international embargoes.

Assumptions

Planning requires assumptions based on statistics, history, behavior patterns and likely future trends. The following assumptions were made as consideration for ESF #12 – Energy:

- During disasters, generating capacity may fall below customer demand.
- Hazardous conditions may delay energy system restorations.
- Communications and traffic signals may be affected by power failures, affecting public health and safety services, logistics and overall response to the disaster site.
- There may be hoarding of fuel if the public perceives prolonged energy scarcities.
- Water pressure systems may be low or zero, affecting facilities essential to health and safety.
- Damaged areas may not be readily accessible.
- All major utilities will have service outages.
- In the first hours after a disaster, all available portable generators will be committed, and additional resources will be needed. These additional resources will need to be prioritized and possibly shared between agencies.

Concept of Operations

Emergency Support Function (ESF) #12 – Energy consists of four broad activities in relation to the Hamilton County Emergency Operations Plan. These activities are:

ESF #12 Activities	
1.	Assess and Provide Information on Impacts to Energy Sector
2.	Provides Information on Transportation and Sources of Fuel
3.	Assists Utility Suppliers Coordinate Resources and Supply the Public
4.	Facilitates Information Sharing with External Utility Providers

Overview

1. The Hamilton County Engineer’s Office is responsible for activating ESF #12 and will be the Coordinating Agency. Primary and Support Agencies for ESF #12 will coordinate with each other in the Hamilton County ROC and/or the Disaster Field Office (DFO) to ensure the most effective use of personnel and equipment.
2. ESF #12 personnel will begin communications with the local utilities and notification of additional personnel for situation monitoring and staging of resources and personnel.

3. Each agency will assist ESF #15 — Public Information with providing public advisories to conserve energy, energy outages and other issues will be provided for dissemination utilizing all available means.
4. In the ROC, ESF #12 will establish contact, when necessary, and maintain on-going communications with energy generators, suppliers, transporters, and related organizations in order to obtain information about damage assessment, repair problems, repair schedules and response activities with respect to energy in the disaster area.
 - a. ESF #12 will identify, when necessary, energy-related programs, logistical support, resource support, and coordination that could be provided by the county, state or by the federal ESF #12 agencies to facilitate recovery.
 - b. ESF #12 will identify, to the extent available, unmet energy needs of disaster victims and coordinate with ROC organizations and other county and state ESFs to address these needs.
 - c. ESF #12 will liaison with industry personnel at the disaster site as needed to conduct damage assessment, to coordinate with the state and/or federal ESF #12 agencies, to document needs of victims and provide intelligence from the disaster site in energy-related matters.
 - d. ESF #12 will document and inform ROC personnel of energy-related problems and requests for aid that have been received from energy suppliers and distributors and from county, state and local organizations in the disaster area.
 - e. ESF #12 will coordinate energy-related disaster information with the Hamilton County Public Information Officer (PIO) before release to the media.
 - f. Forecast energy needs based on current and future recovery activities.

Relationships between Levels of Government

1. Federal
 - a. Coordination with federal ESF #12 may occur in the Hamilton County ROC, Ohio EOC, at the site of the emergency and/or in the DFO.
 - b. The state ESF #12 will interface with the federal ESF #12 during assessment, response and recovery operations in order to ensure coordinated activities between the state and federal teams with energy-related missions.
2. State
 - a. The state ESF #12 will maintain communications with energy utilities, suppliers, associations and related organizations throughout the state of Ohio.
3. Local
 - a. The Regional Operations Center will direct local-level requests related to energy to ESF #12 for action.
 - b. ESF #12 will document energy-related requests made by local response organizations and coordinate within the ROC, with local utilities, and with the state and federal ESF #12 to coordinate unmet energy needs.

Organization and Assignment of Responsibilities

The Hamilton County Engineer's Office (HCEO) has the primary responsibility for the energy functions in Hamilton County. The HCEO will serve as the coordinating agency for this ESF.

Coordinating Agency Responsibilities

Hamilton County Engineer's Office will:

1. Coordinate the activities of Support Agencies within ESF #12 to fulfill operational objectives.
2. Direct the activities of the ESF #12 in conjunction with assistance from ESFs at the local, State, or Federal levels as applicable.
3. Collaborate with other Coordinating Agencies to ensure an effective response between ESFs.
4. Designate sufficient representatives (no less than three) to support/staff 24-hour operations at the Hamilton County EOC. The Hamilton County EMHSA will maintain listings of these personnel,

24-hour contact information, and directions for contacting them in the event of communication outages.

5. Develop and train all staff responsible for implementing ESF #11 on standard operating procedures.
6. Share ESF #12 activity information with appropriate EOC personnel.
7. Prioritize ESF #12 operational strategies in alignment with the EOC and on scene objectives.
8. Assess and evaluate the impacts of disasters on the natural resources in Hamilton County.
9. Assist in allocating emergency power generation equipment, as needed.
10. Coordinate communication between Duke Energy and county and local government officials.
11. Coordinate the clearance/repair of roadways in support of energy restoration efforts.
12. Assist in the transportation of fuel sources for the provision of emergency power.
13. Receive, manage, and track resource requests for ESF #11 in accordance with established resource management procedures.
14. Coordinate with ESF #15 – Emergency Public Information for the inclusion of appropriate information for public dissemination.
15. Assist in the development of the After-Action Report. This report is a detailed, written analysis of the strengths and weaknesses of county-level emergency response and short-term recovery activities based upon extensive research of the event and interviews with participating assessment, response, and short-term recovery personnel.

Supporting Agencies Responsibilities

Hamilton County Environmental Services will:

1. Monitor operational status of water related systems essential to health and safety.
2. Provide maintenance crews to assist Engineer's office with clearing debris from roads, traffic control devices and traffic control while roads are being cleared.

Hamilton County Facilities will:

1. Monitor the operational status of buildings within the Hamilton County
2. Provide information to the Hamilton County ROC on the status of such buildings

Hamilton County Sheriff's Office will:

1. Assist in providing security at energy utility sites as requested.
2. Provide site security and access restrictions to areas upon request.
3. Provide Traffic Control.

Duke Energy will:

1. Work in conjunction with ESF #12 to restore utilities services.
2. Provide outage and repair information to the Hamilton County ROC through ESF #12.