CLEAN WATER IN DISASTERS

a planning guide for communities

MECO

When people are aware of how to perform in natural disasters, **THE OVERALL COST TO THE COMMUNITY PLUMMETS.**

Disasters may be unpredictable, but responses to disasters shouldn't be. While it's impossible to anticipate every potential hazard, The Federal Emergency Management Agency (FEMA) cautions against improvisation as it can actually take more time than implementing a formalized plan — and time is usually very limited in an emergency.

Developing a flexible hazard mitigation plan and stocking emergency supplies and equipment can help save lives, protect property, and reduce costs associated with disaster recovery.

This planning guide is intended to help communities and government leaders:

1. **Evaluate their level of disaster preparedness**
2. **Assess their community's need for water in a disaster**
3. **Develop a strategy to source and distribute water in the event of a disaster.**

COMMUNITIES AND DISASTER PREPAREDNESS

COMMUNITIES DON'T FEEL PREPARED

A survey conducted by Columbia University's National Center for Disaster Preparedness found that two-thirds of residents in the United States lack adequate plans and supplies for a disaster. Additionally, nearly 50% of communities said they are not confident in the ability of government to meet the needs of children in a disaster.

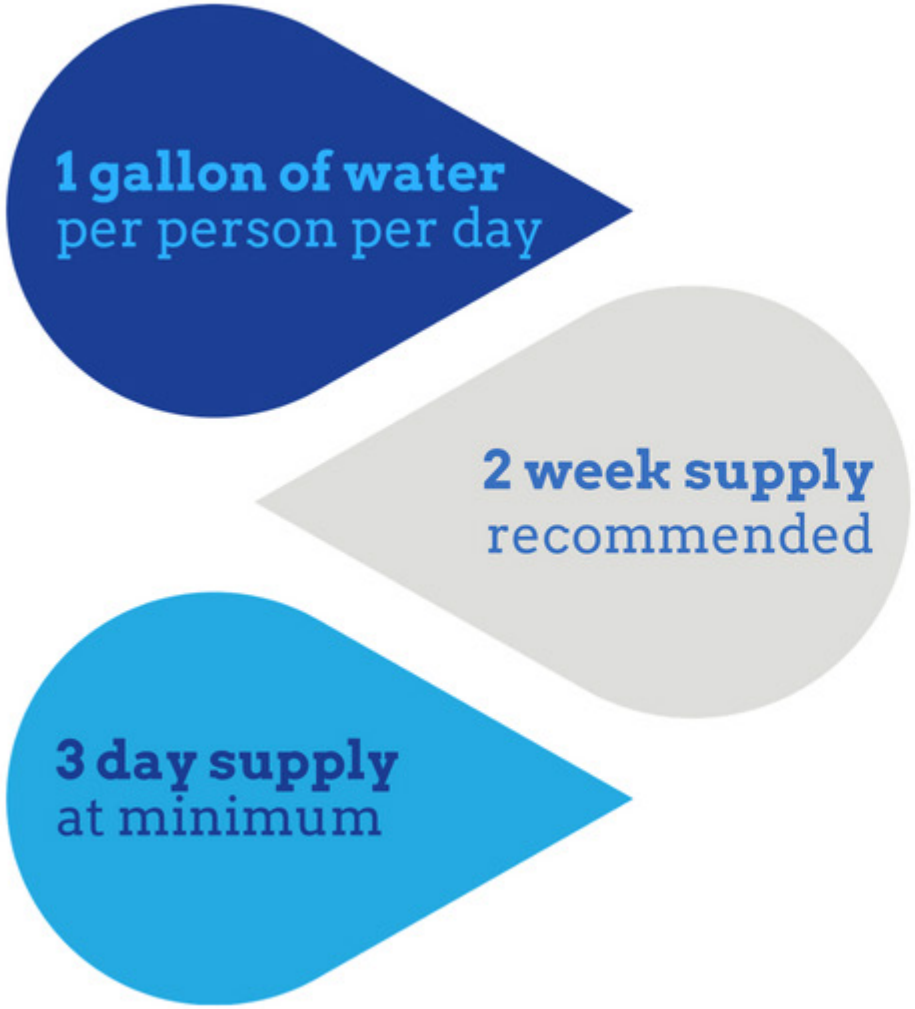
Meeting the needs of these communities is a vital task for community leaders.

ADDRESS THE ESSENTIAL NEEDS

Offering a complete plan that covers every disaster in every geographic location isn't possible. The needs of a community in a earthquake risk zone will differ from communities at risk for floods or hurricanes, but the common needs are the same. Food, water, shelter and electricity are tantamount to launching a successful recovery process. These essential needs must be considered and addressed before a disaster strikes.

WHY PROACTIVE PREPARATION MATTERS

Disasters can strike at any time, in any season. The sheer inability to predict these events necessitates the need for community leaders and residents to evaluate their risk level, understand what disaster preparedness looks like for their community, and put a plan in place to address the need.

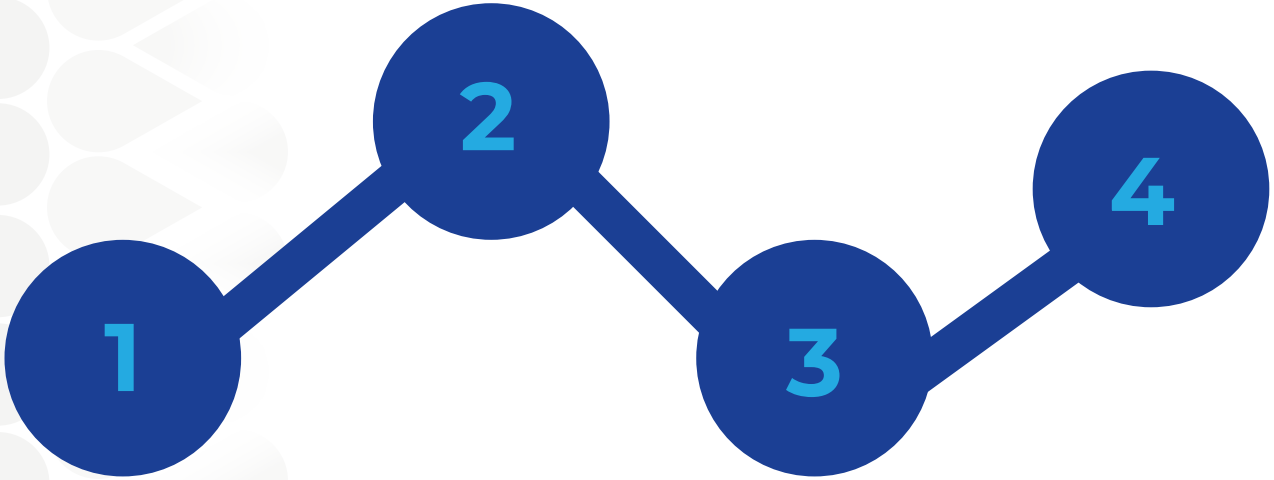


WHAT DOES A COMMUNITY EMERGENCY WATER SUPPLY LOOK LIKE?

MECO
WHERE TOMORROW GETS ITS WATER.®

It is possible for a human to survive for multiple weeks without food, but less than a week without water can be fatal. In times of a natural disaster, the ability to distribute clean drinking water is crucial, and it all depends on having reliable water purification systems ready for disaster relief.

YOUR COMMUNITY WATER SUPPLY STRATEGY IN 4 STEPS



1. SOURCE

- What sources of water are currently available in your community?
- Which sources would be viable after a disaster?
- Do the available sources provide enough water to sustain your community for at least two weeks?

2. STORAGE

- Is there adequate storage available to accommodate your community's disaster water supply needs?
- Is storage near your distribution point?
- If not, what additional storage is needed?

3. TREATMENT

- Will the source or sources of water available in your community need to be treated to be made potable?
- What steps will need to be taken to treat water?
- Do you have a water purification system that can purify enough water in an efficient manner to meet your needs?

4. DISTRIBUTION

- How will water be distributed to community members after a disaster strikes?
- Where will distribution take place?
- Can all community members reach the distribution point?

DISTRIBUTION AREA BEST PRACTICES:

- 200’ x 200’ minimum area
- Paved surface
- Accessible by truck
- Access restricted by curbs
- Electricity and phone service, if possible
- Ease of transportation to and from area
- Accessible to tractor-trailer rigs
- Central and accessible to the community
- Geographic distribution of sites proportionate to population density
- Close to elderly and critical care facilities

HOW MECO CAN HELP

Our state-of-the-art reverse osmosis systems are ideal for disaster relief. They lead the industry in terms of output, efficiency, longevity, and lack of maintenance.

Whether you're preparing for emergency disaster relief for a community or a business, MECO offers the best water purification systems on the market.

A broad product line of technology and extensive experience enables MECO to bring valuable and sustainable solutions to our clients.

Preparation is key to building resilient communities. MECO is here to help you and your community prepare for any disaster, any time.

Contact us today to learn more about our industry-leading water purification systems.

COMMUNITY DISASTER PREPAREDNESS

MMRO-LT

OVERVIEW:

- Leading manufacturer of reverse osmosis desalination plants
- Produces potable drinking water
- Completely packaged units for minimum field installation
- Hazardous area classification options
- All components manufactured by MECO
- Spare parts also available
- Offer custom system design
- Supported by MECO 24-hour customer service
- Backed by warranty

PRODUCT HIGHLIGHTS:

Standard Features

- Side entry piping on RO pressure vessels allows for easier cleaning and removal of membranes when the need arises
- Product water sample ports facilitate troubleshooting
- Cross flow exceeds manufacturer's recommendations
- Conservative flux rate

Equipment Details

- Marine cable
- 2 Step Filtration
- Integrated control and instrument panel
- Duplex Stainless high pressure pump
- TEFC motors

Model	CAPACITY in GPD [m3/day]
MMRO-LT II	8,450 [32]
MMRO-LT III	12,700 [48]
MMRO-LT IV	16,900 [64]
MMRO-LT V	21,100 [80]
MMRO-LT VI	25,360 [96]
MMRO-LT VII	29,600 [112]
MMRO-LT VIII	33,800 [128]

WHERE TOMORROW GETS ITS WATER.™

MECO

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for Industry-Leading Disaster Relief Water Purification

Whether you are preparing for emergency disaster relief for your community or business, MECO offers the best water purification systems on the market.

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