

Code	Mitigation Strategy	Status	Funding Source	Priority	Responsible Organization/ Agency	Strategy Proposed by
All Hazards						
AH1	Construct or obtain a second water storage tower; We currently have only one water storage tower. Our water system is at full capacity. The loss of our tower would cause a major water supply interruption. There is not enough pressure from our supplier to keep adequate pressure	Proposed	Local; State; Federal	High	Waltonville, FEMA/IEMA, Jefferson County	Waltonville public works
AH2	Secure connections to other nearby water providers to be used in emergency situations	Proposed	Local; State; Federal	High	Waltonville, FEMA/IEMA, Jefferson County	Waltonville public works
AH3	TCEC will continue to deliver electricity and maintain lines in safe areas and conditions.	Ongoing	Private	Low	Tri-County Electric Cooperative	Tri-County Electric Cooperative
AH4	Local agencies to notify residents. Local police and fire	Proposed	Local	Low	Village of Belle Rive EMA	Belle Rive
AH5	Prepare facilities with backup generators. Develop a vulnerable population list.	Proposed	Local; State; Federal	Medium	Jefferson County EMA	Woodlawn CUSD #209

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Flooding, Dam Failure						
F1	TCEC will continue to deliver electricity and maintain lines in safe areas and conditions. In the event of a large-scale outage as a result of damaged electrical infrastructure, Tri-County Electric Cooperative will contact the Association of Illinois Electric Cooperatives outage management response team to deploy all available electric cooperatives throughout the nation to assist.	Ongoing	Private	Low to Medium	Tri-County Electric Cooperative	Tri-County Electric Cooperative
F2	TCEC will continue to deliver electricity and maintain lines in safe areas and conditions.	Ongoing	Private	Low to Medium	Tri-County Electric Cooperative	Tri-County Electric Cooperative
F3	Implement waterway maintenance to improve floodplain management. Purchase permanent signage for flood prone areas	Ongoing	Local, State, Federal	Medium	City of Mt. Vernon EMA and Jefferson County EMA, IDNR	Jefferson County
F4	Keeping ditches and culverts clean to prevent flooding on streets in Village.	Ongoing	Local	Medium	Village of Belle Rive EMA	Belle Rive
F5	Implement waterway maintenance to improv on floodplain management. Purchase permanent signage for flood prone areas	Ongoing	State; Federal	Medium	Jefferson County EMA/ City of Mt. Vernon	Jefferson County Fire Protection, Litton Ambulance
F6	Provide training for drinking water bypass operations. Purchase emergency pumps for drinking water bypass operations.	Proposed	Local; State; federal	Medium	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
F7	In the event of a dam failure; Build a second water treatment plants on a separate lake. Install cross connects between other water suppliers and the RLCD distribution system.	Proposed	Local; State; federal	Medium	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District)
F8	Review bus routes for flooding situations. Share information to community about roads that are dangerous under heavy rain events.	Proposed	Local; State; federal	Medium	Jefferson County EMA	Woodlawn CUSD #209

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Tornados, Severe T-Storms						
T1	In the event of a tornado; mitigation efforts will be in place to limit the vulnerability of electrical infrastructure to tornadoes are addressed by an aggressive forestry trim and pole inspection cycle. In the event of a large-scale outage as a result of damaged electrical infrastructure, Tri-County Electric Cooperative will contact the Association of Illinois Electric Cooperatives outage management response team to deploy all available electric cooperatives throughout the nation to assist.	Ongoing	Private	High	Tri-County Electric Cooperative	Tri-County Electric Cooperative
T2	Mitigation efforts to limit the vulnerability of electrical infrastructure to severe thunderstorms are addressed by an aggressive forestry trim and pole inspection cycle. In the event of a large-scale outage as a result of damaged electrical infrastructure, Tri-County Electric Cooperative will contact the Association of Illinois Electric Cooperatives outage management response team to deploy all available electric cooperatives throughout the nation to assist.	Ongoing	Private	Medium	Tri-County Electric Cooperative	Tri-County Electric Cooperative
T3	Hardened laminate window and door film to prevent damage from windblown storm debris	Proposed	Local, Private	Medium	Northeast Water Mt. Vernon	Northeast Water Mt. Vernon
T4	Enhance any available warning systems in the county. Encourage construction of safe rooms in new public buildings.	Ongoing	Local, State	High	City of Mt. Vernon EMA and Jefferson County EMA	Jefferson County
T5	Work with local churches to secure safe structures for community to go to for shelter. We have checked no churches in area have safe secure areas to house residents.	Ongoing	local	High	Village of Belle Rive EMA	Belle Rive
T6	Informing area residents on how to be ready for severe storms in the event. Would have to work with local agencies for clean-up.	Ongoing	Local	High	Village of Belle Rive EMA	Belle Rive
T7	Enhance any available warning systems in the county. Encourage construction of safe rooms in new public buildings.	Proposed	Local; State	High	Jefferson County EMA/ City of Mt. Vernon	(Jefferson County Fire Protection
T8	Enhance any available warning systems for severe thunderstorms within the county.	Proposed	Local; State	High	Jefferson County EMA/ City of Mt. Vernon	Jefferson County Fire Protection
T9	In the event of a tornado; provide training for employees for safety and operations if communication towers are destroyed. Provide training to staff to isolate water supply lines to damaged buildings and restore water service to the area.	Ongoing	Local	Medium	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District

T10	During the event of a severe thunderstorm; provide training for employees for safety and operations if communication towers are destroyed. Provide training to staff to isolate water supply lines to damaged buildings and restore water service to the area.	Ongoing	Local	Medium	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
T11	Retro fit existing buildings to withstand high winds in a tornado event. Ballistic film installed on exterior windows to help resist breakage. Install emergency generators in case of a long power outage. Review and revise emergency plan for shelter and place.	Ongoing	Local; State; Federal	High	Jefferson County EMA	Woodlawn CUSD #209
T12	In the event of a severe thunderstorm; ballistic film may be installed on windows to resist possible breakage. Retrofit buildings and upgrade emergency plans for severe weather.	Ongoing	Local; State; Federal	High	Jefferson County EMA	Woodlawn CUSD #209

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Earthquakes						
EQ1	In the case of an earthquake; mitigation efforts to limit the vulnerability of electrical infrastructure to earthquakes are addressed by an aggressive forestry trim and pole inspection cycle. In the event of a large-scale outage as a result of damaged electrical infrastructure, Tri-County Electric Cooperative will contact the Association of Illinois Electric Cooperatives outage management response team to deploy all available electric cooperatives throughout the nation to assist.	Ongoing	Private	Medium	Jefferson County EMA //Tri-County Electric Cooperative	Tri-County Electric Cooperative
EQ2	Making residents aware of local and state agencies that would help in the event of a earthquake. Agencies that could work with residents and making them aware of the help.	Ongoing	Local	Low	Village of Belle Rive EMA	Belle Rive
EQ3	Install at least two water supply lines to each community. Install cross connects with other utilities	Proposed	Local; State; Federal	High	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
EQ4	Install emergency Shut Off valves; Develop an earthquake emergency action plan.	Proposed	Local; State; federal	Medium	Jefferson County EMA	Woodlawn CUSD #209
EQ5	Secure connections to other nearby water providers to be used in emergency situations, There is only one 6 inch water main running from Mt. Vernon to the village of Waltonville. An earthquake could rupture the line in several locations causing water supply shortage.	Proposed	Local; State; Federal	High	Waltonville, FEMA/IEMA, Jefferson County	Waltonville public works

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HazMat Release						
HM1	TCEC will continue to deliver electricity and maintain lines in safe areas and conditions.	Ongoing	Private	Medium	Tri-County Electric Cooperative	Tri-County Electric Cooperative
HM2	Conduct Hazardous Materials Commodity flow study	Proposed	State, Federal	Medium	Jefferson County EMA	Jefferson County
HM3	Work with local fire and police to set up necessary clean-up of hazardous materials spilled in the area.	Proposed	Local	Medium	Village of Belle Rive EMA	Belle Rive
HM4	Conduct hazardous materials commodity flow study	Proposed	Local; State; Federal	Medium	Jefferson County EMA/ City of Mt. Vernon	Jefferson County Fire Protection, Litton Ambulance
HM5	Test water supply lake. Test water in distribution system.	Ongoing	Local	High	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
HM6	Develop and update hazmat emergency plans. Acquire protective gear for first responders.	Proposed	Local	Low	Jefferson County EMA	Woodlawn CUSD #209

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Drought, Extreme Heat						
D1	In drought/extreme heat conditions, equipment is monitored to limit the vulnerability of electrical infrastructure failure. TCEC will continue to deliver electricity and maintain lines in safe areas and conditions.	Ongoing	Private	Low	Tri-County Electric Cooperative	Tri-County Electric Cooperative
D2	Cooling areas to open at local church would be available	Proposed	Local	Medium	Village of Belle Rive EMA	Belle Rive
D3	Develop a water conservation plan and implementation procedures. Build a second water treatment plant on a separate lake.	Proposed	Local; State; Federal	Medium	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
D4	Ensure al students have access to appropriate AC during the school day. Retro-fit buildings with heat reflective materials.	Proposed	Local; State; Federal	Low	Jefferson County EMA	Woodlawn CUSD #209

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Ground Failure						
GF1	TCEC will continue to deliver electricity and maintain lines in safe areas and conditions.	Ongoing	Private	Medium to Low	Tri-County Electric Cooperative	Tri-County Electric Cooperative
GF2	Install 2 water supply lines to each community. Develop a large warehouse of emergency parts.	Proposed	Local; State; Federal	Medium	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
GF3	Maintain a list of buildings that are constructed over underground mines. Create brochures regarding mine subsidence insurance for residents.	Proposed	Local	Low	Jefferson County EMA	Woodlawn CUSD #209

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Winter Storms						
W1	Mitigation efforts to limit the vulnerability of electrical infrastructure to severe winter weather are addressed by an aggressive forestry trim and pole inspection cycle. In the event of a large-scale outage as a result of damaged electrical infrastructure, Tri-County Electric Cooperative will contact the Association of Illinois Electric Cooperatives outage management response team to deploy all available electric cooperatives throughout the nation to assist.	Ongoing	Private	High	Tri-County Electric Cooperative	Tri-County Electric Cooperative
W2	Establish warming centers throughout the county. Enhance any available warning systems in the county.	Proposed	State, federal, local	Medium	City of Mt. Vernon EMA and Jefferson County EMA	Jefferson County
W3	Informing residents on severe winter weather. Radio, internet and television for information. Help from local highway and state to clean roads along with village to clean streets in the village. Having truck ready and salt available to clean village roads.	Proposed	Local	High	Village of Belle Rive EMA	Belle Rive
W4	Establish warming centers throughout the county. Enhance any available warning systems in the county.	Proposed	State; Federal	Medium	Jefferson County EMA/ City of Mt. Vernon	(Jefferson County Fire Protection
W5	Provide training for extreme cold weather repairs. Provide alternative lake raw water pumping capabilities for the water treatment plant.	Ongoing	Local; State	High	Rend Lake Conservancy District/ Jefferson County EMA	rend Lake Conservancy District
W6	Regular inspections of heating systems/ roofing to ensure they can keep up/ hold up in a large amount of snowfall. Invest in engine block heaters for buses.	Ongoing	Local; State	Medium	Jefferson County EMA	Woodlawn CUSD #209

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Pandemic/Disease Outbreak						
P1	Secure a permanent warehouse facility for PPE in case of future outbreak(s).	Ongoing	Local, State	High	Jefferson County EMA, City of Mt. Vernon EMA	Jefferson County
P2	Set up test sites. Follow health department guidance	Ongoing	Local	Medium	Village of Belle Rive EMA/ Jefferson County Health Department	Belle Rive
P3	Secure a permanent warehouse facility for PPE in case of a future outbreak.	Proposed	Local; State	High	Jefferson County EMA/ City of Mt. Vernon	Jefferson County Fire Protection
P4	Implement safety procedures and purchase masks. Develop alternate work stations.	Proposed	Local; State; Federal	High	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District)
P5	Enhance reporting and contact tracing program/ protocols. Stockpile PPE for usage.	Ongoing	Local; State; federal	High	Jefferson County EMA	Woodlawn CUSD #209
P6	Conduct a full-scale exercise every 5 years to address pandemic response. Update plans for contact tracing protocols with lessons learned from COVID-19 and train staff on these protocols.	Ongoing	Local	High	Jefferson County EMA	Jefferson County Health Department)



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Terrorism						
TR1	In the event of a large-scale outage as a result of damaged electrical infrastructure, Tri-County Electric Cooperative will contact the Association of Illinois Electric Cooperatives outage management response team to deploy all available electric cooperatives throughout the nation to assist.	Proposed	Private	Low	Tri-County Electric Cooperative	Tri-County Electric Cooperative
TR2	Working with local agencies to notify village residents in the event.	Ongoing	Local	Medium	Village of Belle Rive EMA	Belle Rive
TR3	Implement Risk and Resiliency Plan items; Eliminate single points of failure.	Proposed	Local; State; Federal	High	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
TR4	Ballistic film to place on exterior windows to help resist breakage. Partner with Jefferson County Police to assess threats.	Proposed	Local; State	Medium	Jefferson County EMA	Woodlawn CUSD #209

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Cyberattack						
C1	TCEC's IT team works diligently to prevent cyberattacks by testing the system and working with the National Rural Electric Cooperative Association on best practices.	Ongoing	Private	High	Tri-County Electric Cooperative	Tri-County Electric Cooperative
C2	Notify residents of local agencies within the state to help with this event of a cyberattack	Proposed	Local	Medium	Village of Belle Rive EMA	Belle Rive
C3	Perform study to identify cyber weaknesses at the water treatment plant and pumping stations. Install manual operation controls not dependent on the computerized system.	Proposed	Local; State; Federal	High	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
C4	Insurance coverage for lost resources/ lawsuits for a possible data breach. Update the firewalls to the strictest ones.	Ongoing	Local; State	High	Jefferson County EMA	Woodlawn CUSD #209

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Power outage/ utility disruption						
O1	Mitigation efforts to limit the vulnerability of electrical infrastructure to tornadoes are addressed by an aggressive forestry trim and pole inspection cycle. In the event of a large-scale outage as a result of damaged electrical infrastructure, Tri-County Electric Cooperative will contact the Association of Illinois Electric Cooperatives outage management response team to deploy all available electric cooperatives throughout the nation to assist.	Ongoing	Private	High	Tri-County Electric Cooperative	Tri-County Electric Cooperative
O2	Enhance private/public utility services maintenance capabilities and try to provide for any known deficiencies	Proposed	Local, State, Federal	Medium	City of Mt. Vernon EMA and Jefferson County EMA	Jefferson County
O3	Inform residents of how to notify local utility companies in the event of power outages.	Proposed	Local	Medium	Village of Belle Rive EMA	Belle Rive
O4	Enhance private/public utility service maintenance capabilities and try to provide for any known deficiencies.	Proposed	Local; State; Federal	Medium	Jefferson County EMA/ City of Mt. Vernon	Jefferson County Fire Protection, Litton Ambulance
O5	Refurbish or replace 50-year-old emergency engines for drinking water pumping. Install emergency generators and/or hookup panels at each pump station and lift station.	Proposed	Local; State; Federal	High	Rend Lake Conservancy District/ Jefferson County EMA	Rend Lake Conservancy District
O6	Install emergency generators. Install solar panels to be more self-sufficient.	Proposed	Local; State; Federal	Medium	Jefferson County EMA	Woodlawn CUSD #209

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Other Potential Hazards						
OH1	Invasive Species: Create and date a list of possible emergency equipment. Develop a vulnerable populations list.	Proposed	Local	Low	Jefferson County EMA	Woodlawn CUSD #209
OH2	Wildfire: TCEC will continue to deliver electricity and maintain lines in safe areas and conditions. In the event of a large-scale outage as a result of damaged electrical infrastructure, Tri-County Electric Cooperative will contact the Association of Illinois Electric Cooperatives outage management response team to deploy all available electric cooperatives throughout the nation to assist.	Ongoing	Private	low	Tri-County Electric Cooperative	Tri-County Electric Cooperative