

GRID FAILURES ACTION GUIDE

Vision: Our vision is to provide a weekly, step-by-step guide to help people prepare before a given threat becomes a reality. We encourage you to print and keep a collection of these weekly guides and website information. We also suggest you keep your collection in a notebook in case there is a loss of the internet and power at the very time you need these guides.

We believe as you consider these guidelines and prepare, you will gain the knowledge and skills to adapt to the anticipated threats. These guides may not address every contingency but, being prepared for threats and disasters in general helps individuals gain the peace of mind that they have done what they can do to enhance their chances for safety, survival, and the well-being of their communities. This resource and comprehensive approach fosters resilience and prosperity in challenging times when many others may be caught off guard.

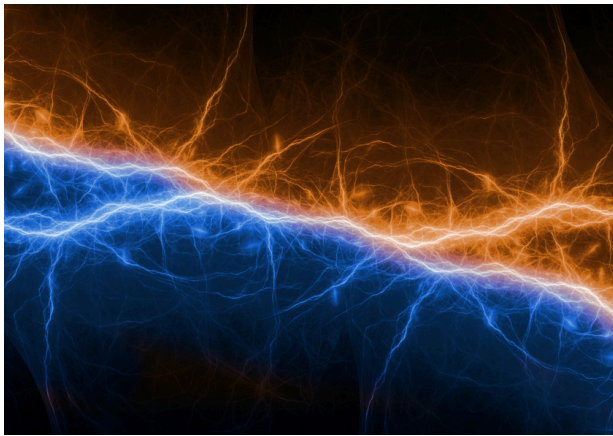
EXPERT – In this episode we will address – POWER GRID ISSUES AND FAILURE with Maria Sumnicht.

Maria is an expert in many topics, and she is National Director Cybersecurity, Task Force on National and Homeland Security National Director Cybersecurity.

You can see our WWT podcast at

<https://vimeo.com/manage/videos/1048687727>

INTRODUCTION: Step-by-Step Guide to Understanding The Grid in the USA



INTRODUCTION

Topic One

The electric power grid in the United States is a complex network that delivers electricity from producers to consumers. It consists of generation facilities, transmission lines, substations, and distribution systems. Understanding the structure and challenges of the grid is essential for grasping how electricity is managed and distributed across the country.

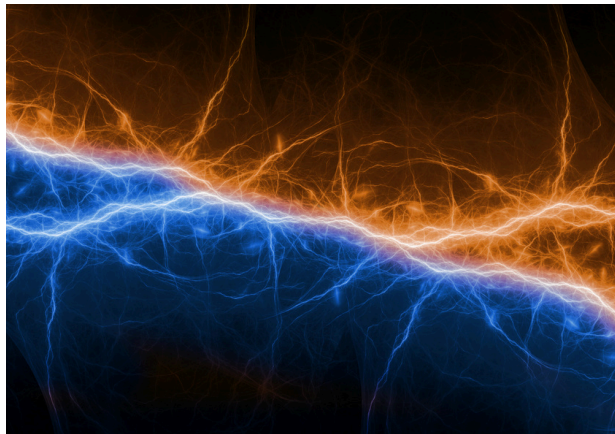
Structure of the Electric Grid

Generation: The grid relies on a mix of energy sources, including fossil fuels (natural gas, coal), nuclear power, and renewable energy (solar, wind, hydroelectric). Power plants generate electricity and feed it into the transmission network.

Transmission: High-voltage transmission lines transport electricity over long distances from generation sites to population centers. Transmission systems are managed by Regional Transmission Organizations (RTOs) and Independent System Operators (ISOs) to ensure reliability and efficiency.

Substations: Substations step down high-voltage electricity to lower voltages suitable for distribution. They also serve as points for switching and routing electricity, ensuring it reaches the right areas.

Distribution: Distribution lines carry electricity to homes and businesses. This system includes transformers, poles, and wiring that deliver power at usable voltages.



INTRODUCTION

Notes

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CHALLENGES FACING THE ELECTRIC GRID

Topic Two

Aging Infrastructure: Much of the grid infrastructure is decades old and requires upgrades and maintenance. Aging equipment can lead to failures, outages, and inefficiencies.

Increased Demand: Population growth and the rise of electric vehicles and smart technologies have led to higher electricity demand. The grid must adapt to accommodate this growing demand without compromising reliability.

Cybersecurity Threats: The electric grid is increasingly vulnerable to cyberattacks, which can disrupt services and compromise safety. Strengthening cybersecurity measures is crucial to protect against these threats.

Natural Disasters: Hurricanes, wildfires, and extreme weather events can damage infrastructure and disrupt power supply. Resilience planning and investment in disaster recovery are essential for maintaining grid reliability.

Integration of Renewable Energy: The shift towards renewable energy sources poses challenges for grid management. Variability in generation from sources like solar and wind requires advanced energy storage solutions and grid flexibility.



CHALLENGES FACING THE ELECTRIC GRID

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REGULATORY AND POLICY ISSUES

Topic Three

The decentralized nature of the grid leads to regulatory complexities, with various state and federal regulations impacting operations. Coordinated policies are needed to ensure investment in modernization and sustainability.

Equity and Access: Disparities in access to reliable electricity exist, particularly in rural and low-income areas. Addressing these inequalities is vital for a fair and just energy transition.

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THE THREAT FACING THE ELECTRIC GRID OF DEPENDENCE ON GLOBAL SUPPLY CHAINS

Topic Four

The U.S. electric grid is increasingly reliant on global supply chains for critical components and replacement parts.

A significant portion of these parts, including transformers, circuit breakers, and other essential equipment, is manufactured in China. This dependence raises concerns about supply chain vulnerabilities, especially in times of geopolitical tension or trade disputes.

Delays or disruptions in obtaining these components can lead to extended outages and hinder the ability to upgrade and maintain the grid.

The electric grid in the United States is a critical component of the nation's infrastructure, supporting economic activity and daily life. However, it faces significant challenges that require comprehensive strategies for modernization, resilience, and sustainability. Addressing these issues will ensure that the grid can meet the demands of the future while providing reliable and equitable access to electricity for all Americans.

They also serve as points for switching and routing electricity, ensuring it reaches the right areas.



THE THREAT FACING THE ELECTRIC GRID OF DEPENDENCE ON GLOBAL SUPPLY CHAINS

Topic Four

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ELECTRIC VEHICLE (EV) MANDATE ISSUES

Topic Five

As states implement mandates for electric vehicles to reduce carbon emissions, the demand for electricity is projected to increase significantly.

The grid must be prepared to support the charging infrastructure required for a growing number of EVs, which may lead to additional stress on already strained systems.

There are concerns about the ability of local grids to handle peak charging times, especially if many EVs are charged simultaneously. Right now the Grid is unsustainable to handle the demand of E Cars based on old infostructures.

Additionally, the transition to electric vehicles requires substantial investment in charging stations, which can be logistically and financially challenging.

Policy alignment between federal and state levels is necessary to ensure that infrastructure development keeps pace with EV adoption, as inconsistencies can lead to gaps in service and accessibility.



POWER GRID FAILURE PREPAREDNESS

Topic Six

If the grid goes down, it is essential to have basic needs met and on hand to survive. Without power the production of goods and services cannot continue, supplies will dwindle, and there will be delays in items being restocked. Medical Care facilities and Emergency Services will need to rely on generators and alternative power supplies as they are available.

Plan to Have:

1. Water: Store enough water drinking and cooking, at least one gallon per day per person in some form of storage and water filters that can purify lake or river water.

2. Food: Store enough to feed each person for at least a week. That includes dry food like rice and beans, canned meat and vegetables, and filler items. Include food for pets.

Have portable stoves and cooking equipment that does not require power.

3. Energy: If you are able buy a small solar generator online that has at least 6 outlets to run primary appliances like a refrigerator. These can be obtained at Amazon.com. Small solar yard lights once charged will work to light rooms when there is no power.

4. Heat and Air Conditioning: Obtain propane heaters, solar fans, and plenty of warm clothing.



POWER GRID FAILURE PREPAREDNESS

Topic Six

5. Medical supplies: Try to have extended supplies of needed prescriptions and basic medical supplies for injury and health care needs.

6. Communication Equipment: obtain solar cell phone charges, solar short-wave radio and solar walkie talkies. Most of these are relatively inexpensive at Amazon.com.

7. Networking: Prepare a written guide that has everything listed as above and develop a community of people including family members contact information in writing. Include any form of transportation that will work if the grid is down or in the event of an EMP. Have extra fuel stored, gasoline, diesel and propane. Have basic hand tools on hand to make repairs, cur wood etc.

Conclusion

The electric grid in the United States is a critical component of the nation's infrastructure, supporting economic activity and daily life. However, it faces significant challenges that require comprehensive strategies for modernization, resilience, and sustainability. Addressing these issues will ensure that the grid can meet the demands of the future while providing reliable and equitable access to electricity for all Americans.

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PEACE & SPIRITUAL LIVING

Topic Seven

Peace could be very elusive during a worldwide threat because of the stress any individual threat would create in one's life. Let alone if these threats appear in clusters or simultaneously, as often is the case. Dealing with stress is very important during times of personal relationship problems, financial, health, and survival issues. Successful stress management and remaining clear headed could make the difference in your survival.

More than stress management, maintaining your peace during a disaster could prove to be more valuable than the gold you stored to barter with. Having peace can help your family, friends, and all of those around you that are in a critical situation to survive in an abundant way.

Peace is directly associated with spirituality. If you have not considered spirituality, now would be the time to develop it while we are in a relatively peaceful time. Seeking a Higher Power for peace makes sense when so many things will be out of your control during a worldwide threat.

Believing Jews look to the God of Abraham, Isaac, and Jacob to bring them peace. Prophecies of the Messiah help the Jews focus on God as their victor and keeper. For Jews, their bible predicts the coming of the Messiah who will protect them and establish his forever kingdom.



PEACE & SPIRITUAL LIVING

Topic Seven

Those who know the Jesus of the Christian Bible will deal with stress completely differently than those who do not. There are several reasons for that. First, the bible is full of prophecies foretelling the birth and mission of Jesus to make peace between God and mankind in addition to his return to set up a kingdom of His peace. Jesus came and fulfilled the prophecies of his birth, death, and resurrection. Christians have a great deal of evidence that he will keep his promise to return and ultimately establish worldwide peace. The well-known Christmas prophecy hundreds of years before his birth in Isaiah 9:6 identified Jesus as the Prince of Peace. He offers that peace to you today if you but ask (John 14:27).

Prophecies are comforting and stress reducing because they come from a loving Higher Power that is communicating with his people what to expect. Prophecies for the Christian tell the nature of the times in which Jesus was, is and will be.

If you are encouraged by the **WorldwideThreat.com** please consider visiting www.LiveInThePresence.com. We produced a video series called ***Living in the Presence***. These shows were produced in different places in the world and primarily show how people in difficult and life-threatening situations live a life of peace and prosperity in many ways.



PEACE & SPIRITUAL LIVING

Topic Seven

To be part of the Worldwide Threat Family is to understand how to be prepared for the threats. Part of that preparation is to do your part to support the local storehouse that helps people in need, otherwise known as the local church. Both Jews and Christians know the importance of this principal from the example of Joseph in the Old Testament storing up goods in the storehouse. If you do your part to support your local church, God promises to protect the remainder of your supplies in Malachi 3:10-18. That should give you some peace as well.

If you are not walking in peace, we can help you by introducing you to Jesus and giving you free information that will help. We welcome you to contact us by phone **888-391-0354**, email at info@theworldwidethreat.com or text at **828-330-4883** and we will be glad to discuss all of this.

We hope to see you next Thursday for latest instalment of the Worldwide Threat. Until then, we will leave you with one last thought.

Jesus says in John 14:1-3, 27-28;

Jesus is the way to the Father

14 Jesus said to his disciples, ‘Do not be sad or afraid. Believe in God, and also believe in me. **2** There are many rooms in my Father's house. I will go now so that I can prepare a place for you there. If it was not true, I would not have told you this. **3** After I have prepared a place for you, I will return. Then I will take you so that you will be with me. You will be where I am...**27** I will go away but I will give you a gift of peace. It is mine to give and yours to keep. It is not like a gift that this world gives. Do not let yourselves be sad. Do not be afraid. **28** You heard me say to you, “I will go away, but I will return to you.” (EEV)

Disclaimer: The ideas and suggestions in these guides are not meant to provide professional advice. We suggest you communicate with professionals in all areas to design and prepare for any threats you or your family may face. These guides and information are provided free for you to share with friends and family but may not be copied or used for commercial or business use without our written permission.

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