

# SUN WIND FIRE RAIN

## *WHAT WILL IT TAKE TO BECOME FOSSIL-FUEL FREE?*

Another Fundamental Transformation Project

Sponsored by:

Living Water Solar Cooperative



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- ▶ This project starts in Chattanooga, Tennessee, USA and hopefully will spread nationwide, worldwide.
- ▶ It will first explore what is required to make Chattanooga fossil-fuel free.
- ▶ The local Chattanooga SWFR Meetup site has been created to facilitate bringing people together.
- ▶ A project account have been established within LWSC. This account provides secure project information and data storage, and provide a safe and secure environment for project members to share new ideans and create new concepts and innovation.
- ▶ [Click here to learn more about Living Water Solar Cooperative.](#)
- ▶ [Click here to download LWSCR.012 Sun Wind Fire and Rain Project Overview.](#)



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The greatest challenge facing this project is not what is needed but how it will be implemented.

1. It can be driven completely by free market forces
2. It can be forced on our society by people in government at multiple levels
3. It can be accomplished using a hybrid of free market and government legislation and regulation

Which is the best choice? Let's work together to find out.

Regardless of the path chosen becoming fossil-fuel free will require many changes. The first project challenge:

- A. Find fossil-fuel free solutions that simultaneously:
  - A. **Do More**
  - B. **Cost Less**
  - C. **Improve the Environment**



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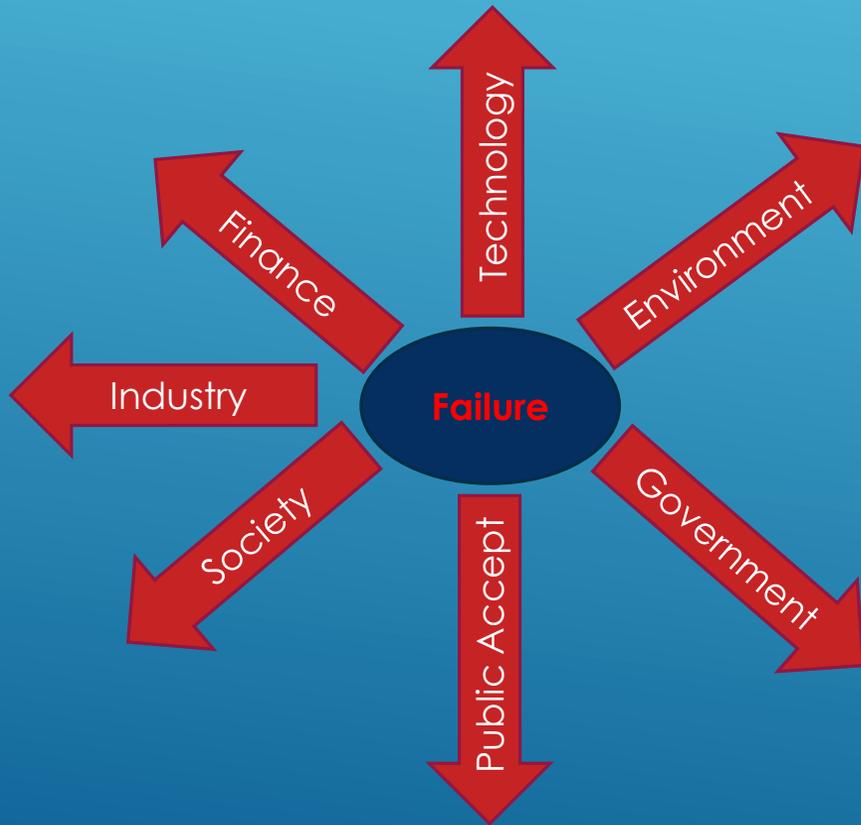
This project is multi-dimensional with many facets that are interconnected and interdependent. These include:

- ❑ Technology
- ❑ Finance
- ❑ Environment
- ❑ Society
- ❑ Private Industry
- ❑ Government

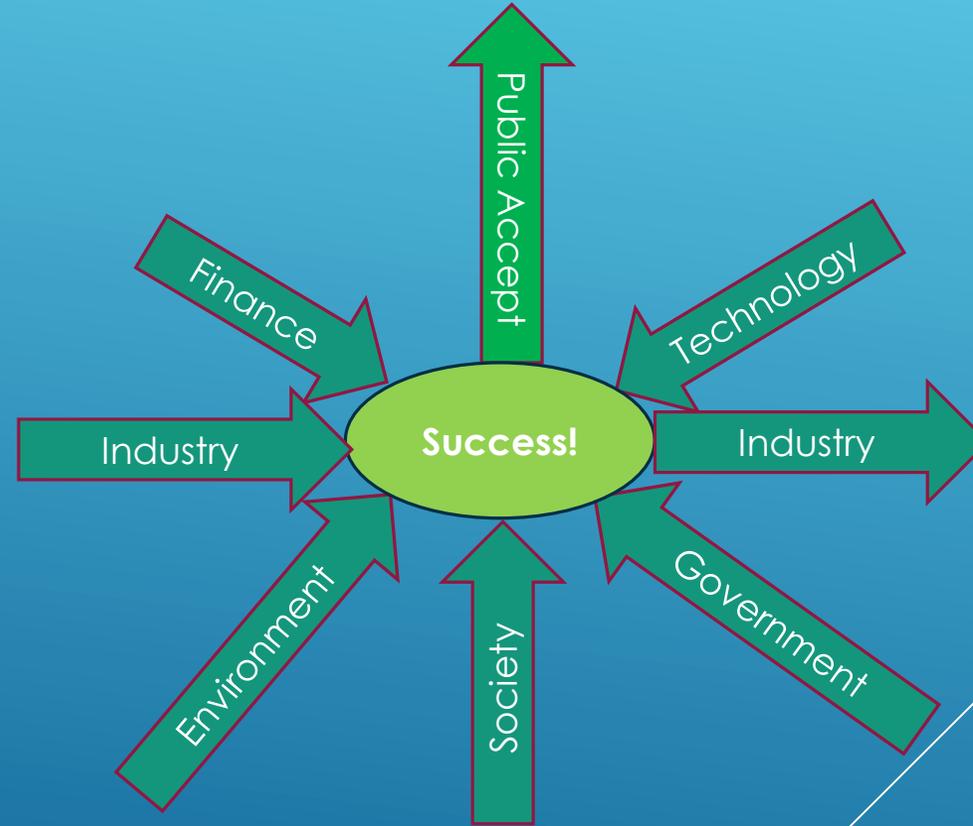


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To succeed we must come together, understanding and respecting different perspectives and find workable solutions through compromise. Only then can we provide the leadership to move forward.



Our Human Nature Without Leadership



Let Us Come together To Provide The Way Forward

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So now that we know the major drivers, what are the major components?

Everyone knows about **Supply** and **Demand**, but there are two additional components that must be considered:

- ▶ **Transmission**
- ▶ **Storage**

So the project starts with the matrix ...



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## The Fossil-Fuel Free Challenge Matrix

Fossil-Fuel Free	Technology	Finance	Environment	Government
Supply	NEXTGEN?	Lower Cost?	Lower Impacts?	Regulation?
Demand	Market Driven?	Lower Cost?	Roll Back?	Regulation?
Transmission	NEXTGEN?	Capital?	Improvements?	Regulation?
Storage	NEXTGEN?	Capital?	Lower Impacts?	Regulation?



*Public Acceptance*

**Solve the problems in every box and the fundamental transformation will occur. Renewable Energy and Resources will become the new baseline replacing fossil-fuels**



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## Some juicy tidbits to get you started...

When we say “Fossil-fuel Free” we not just talking about cars. We include **all** consumers that use energy derived from fossil fuels.

- The Census Bureau says there are about 150,000 people in Chattanooga. But that’s just the city. There are about 525,000 people in the metropolitan area.
- Chattanooga has a huge head start, thanks to the TVA and our local hydroelectric dams currently supplying 225Megawatts.
- We have no clue how many homes, businesses and factories there are in our area, but we bet there is someone out there who has these stats at their fingertips.
- Similarly, we have no clue how may cars, trucks, buses, trains and planes there are in our area but know there is someone out there who is excited about finding the answers!



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Does this project sound exciting to you?

Where do you “fit” in the Fossil-Fuel Free Matrix?

We need task leaders for each major component, and you can join the project without quitting your day job!

Interested in learning more? [Join the Meetup by clicking here.](#)

We look forward to hearing from you. You can reach Mark Fowler, Project Manager at: [mark.fowler@livingwatersolar.org](mailto:mark.fowler@livingwatersolar.org)

Thank you for taking the time to listen.