



THE CLIME

From the Owner



Living Laboratory Smart Airfield



Living aerospace laboratory rendering by Paradox

Fellow Ecopreneurs,

Welcome! I am Ferguson "Juice" Dale, Aerospace Ecopreneur and Owner of Semper Sky. I come from the US Marine Corps tactical jet community. My previous position as a Science and Technology Branch Manager for the Marine Corps Warfighting Laboratory fostered my innovative spirit.

My dedicated team of supporters and I have been working hard to get Semper Sky up and running. As you review our first newsletter, you will learn more about some of our ventures and plans.

At Semper Sky we encourage sustainable change in the aerospace ecosystem. My ultimate goal for Semper Sky is to help the US achieve net-zero emissions in aerospace by 2050. I am inspired by pioneers like the late Lt. Gen. Frank E. Petersen, who paved the way for us all to excel in Science, Technology, Engineering, and Math (STEM) no matter our background.. If you are reading this, you can be part of the positive change we cultivate here at Semper Sky. As we continue to build, we will share various ways for everyone to get involved.

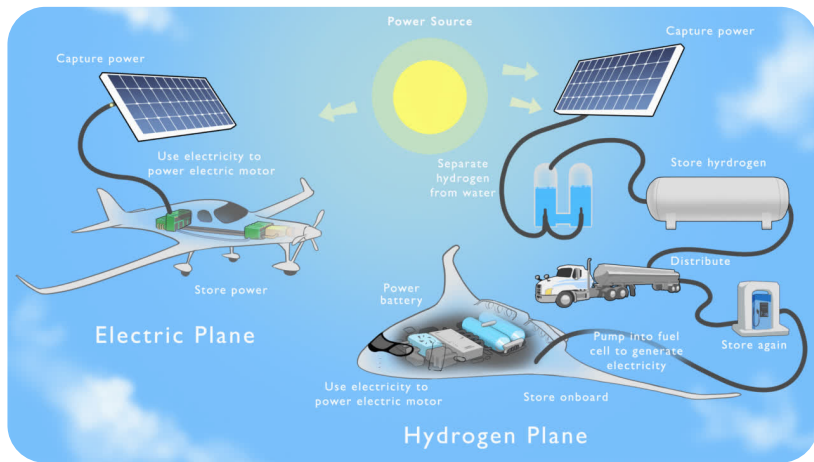
Thank you for choosing to stay informed. Keep "climbing" with Semper Sky!

Semper Fidelis,
Ferguson "Juice" Dale

Semper Sky has been searching for a plot of land in Eastern North Carolina to support the creation of a living aerospace laboratory. Think of this lab as a microcosm for the tomorrow we seek. In the future, students from local universities and colleges will be able to use our resources to experiment and test their hypotheses. And all learners can glean the infrastructure necessary to make a better tomorrow by touring our facilities.

Larger airports can use our facilities to develop greener airfield operations without interrupting existing airfield operations. Small General Aviation businesses can trade dependency on Aviation Gas for alternative energy such as electric, hydrogen, switchgrass, or a combination thereof. Eastern North Carolina is the canvas Semper Sky will use to support North Carolina's desire to remain "First in Flight Forever."

Electric vs. Hydrogen



At Semper Sky's charging station, aircraft already outfitted with alternative energy will have a place to recharge or refill. As we move toward a more efficient future in aviation, we are considering and researching electric and hydrogen powered options. This graphic illustrates the process of powering electric planes and hydrogen planes with the sun as the energy source.

Energy Independence: Sustain or Gain?

According to the U.S. Energy Information Administration, "The United States became a net total energy exporter in 2019 for the first time since 1952 and maintained that position in 2020 and 2021." Energy independence for a nation has been defined as exporting more primary or final energy sources than it imports. However, skyrocketing gas prices suggest that we are not independent. Because we still import oil, our prices are affected by global events. We will always import oil, but how would access to a variety of energy sources impact our economy? As investors in the future, our question is, "Should America's focus be on sustaining our current status, or gaining more energy independence?"

Some argue that oil has been the backbone of our energy infrastructure for ages and electric aircraft are expensive, unproven, and have limited range. It may seem safe to sustain our current status, fearing that change could cause us to lose our position of energy independence. To paraphrase Brian Scordato, hypersensitivity to loss aversion plays a big role in the reticence many feel when faced with change. He makes sense. The pain of losing is often more powerful than the pleasure of gaining. So we prioritize keeping what we have. Though it may seem counterintuitive, it is much more important to increase energy independence than it is to sustain our current trajectory. Semper Sky exists to contribute to reducing the amount of imported oil and diversify our energy sources to gain the next level of energy independence.

5 Ways to Reduce Summertime Energy Dependence

At [Semper Sky](#), we realize that one of the best ways to create a greener future is to practice decarbonization now. Here's how you can help.

Unplug

Summertime means more sunlight and longer days. Try leaving your home later in the day and enjoying the outdoors. Turning off the lights, television, and other electronics not in use will conserve energy and reduce your monthly bill.

Reuse

If you're rehydrating with thirst-quenching beverages, opt for a reusable water bottle instead of consuming drinks from disposable plastic bottles and aluminum cans.

Adjust

When you're cooling off indoors, try setting your air conditioner at least two degrees higher than normal. Your body will acclimate and you'll reduce energy usage by about 10% for each degree increase.

Replace

The harder your air conditioner works to cool your home, the more energy it uses. Replace your air filters monthly to optimize efficiency.

Shade

You can also lessen the strain on your AC by preventing the sun from warming your home. Keep your blinds and shades approximately three-fourths closed to decrease extra heat. Remember to leave some natural light to avoid using lamps.

YEAR ONE *In Review*

Semper Sky has been building for 12 months. Countless efforts, big and small, have contributed to our growth. These are some of the milestones we've hit along the way.

“ I reflect on our past with gratitude, value your presence now, and hope you will contribute to an energy independent future with me. ”

-Ferguson "Juice" Dale

July
2021

Aerospace Ecopreneur Ferguson Dale establishes Semper Sky, LLC.

Aug
2021

Semper Sky registers in System for Award Management (SAM).

Sep
2021

Semper Sky conducts electric aircraft research.

Oct
2021

Semper Sky visits local flight programs in Eastern North Carolina.

Nov
2021

Semper Sky makes liaison with NC State's Institute for Transportation Research and Education (ITRE).

Dec
2021

Semper Sky designs an official logo.

Jan
2022

Semper Sky forms a leadership team.

Feb
2022

Semper Sky chooses its operations base.

Mar
2022

Semper Sky sponsors the Fruits of Pamlico County Tour for supporters and affiliates.

Apr
2022

Semper Sky creates an official website. Visit us at www.flysempersky.com

May
2022

Semper Sky obtains new headquarters.

June
2022

Semper Sky submits first Request for Proposal (RFP).



(L to R) Ava, Hazel, and Scarlet Rogers, made spring decorations and enjoyed a tasty treat while learning that gelatin meets the global demand for sustainability.

In spring, our team started engaging youth of all ages to encourage creativity and teach sustainability. With children ages 2-12 we shared some earth and family friendly ways to celebrate holidays while starting cleaner traditions. And while in Stafford, VA, Ferguson Dale visited the CyberBytes Foundation to speak with 30-40 high school students from On-Ramps to Careers.



On Saturday, March 12, 2022, Ferguson Dale and 12 Semper Sky supporters and affiliates went on a four-hour "Fruits of Pamlico Tour" in North Carolina. Beth Bucksot, Director of Business Development for Pamlico County, hosted the group and acted as the tour guide. The tour concluded with a barnyard dinner party. Ferguson manned a Semper Sky winging ceremony after the meal. All attendees received Semper Sky wings as a thank you for their participation. The search for a plot of land that best fits Semper Sky's mission and services continues.