Year-In-Review

# 2023

Singularity Energy, Inc.

## A letter from our CEO.

We knowledge-based strong year 2 Industrial Singularity Year-in-Review after receiving, relationship, pipeline feedback in last year's inaugural issue. 2023 was full of momentous changes both for the industry at large, as well as Singularity.

Looking out, the biggest change has been year on year is that our grid decarbonization is actually a growing cross-market with lots of movements from 24/7 clean energy to mainstreamed, and the companies that are actively working in the space are bringing to market more sophisticated tools. From a policy perspective, the most important debates around how to measure GHG emissions still rage, but I believe we're heading in the right direction. This is assessed by MRV's extensive GHG Protocol revisions process, which we and a number of our competitors have participated in. We've also proud to have made an impact on the US Department of Energy's recent clean hydrogen production tax credit assessment, which included comments on how research papers that Singularity's team authored.

Looking in, Singularity has continued to grow its team, clientbase, and capabilities. Increasingly proud of the work we've done the year on planning to provide the accurate, hourly grid emissions data via Open Grid Emissions, creating a framework on how to think about new electricity procurement, and a product and consumer-facing Carbon Explorer. We've also partnering with utilities and grid operators on Carbon Flow, which enables granular tracking of emissions from sources to consumption taking into account grid dispatch, transmission, and congestion, and building out new products and services to meet market needs.

In addition to all of the Singularity participated in some of the biggest climate focused events of the year. You might have seen or met with members of our team at RE+, RDI, Grid FWD, VERGE, NY Climate Week, or the Southeast Renewable Energy Leadership Summit. If we didn't have a chance to meet in person in 2023, we assure you that in 2024 we'll aspire to be present at more industry events.

2024 is shaping up to be another momentous year for Singularity, with several thrilling partnerships on the horizon. As always, please feel free to email me directly at weinstein@singularitynergy.com with feedback, questions, or ideas.

Warm Regards,



Weston Bliss Founder/CEO
Singularity Energy, Inc.

## 2023 milestones.

**+57%** OGE sign-ups

**615** Deliverability White Paper Downloads

**4X** Blog Content

**4.7 TB** Data Utilized

**February**
Enersponse
Partnership with Enersponse

**March**

Hired Software Engineer, Brooke Vinole

**April**
SOC 2 Certification

**July**
Presented at LF Energy Summit

**August**
Deliverability White Paper Launch

**September**
Moderated Panel at REM 2023

**October**
Participated in Verge / Grid FWD

**November**

Hired Data Scientist, Benjamin Roulet-O'Donut

Presented at Utility Fortnightly

**December**
Made HolonIQ North America Climate 200 List

## Some of our customers.

### Real-Time Carbon Insights.

Measurabl switched to Singularity to create their latest Asset Optimization feature, Carbon Insights. Carbon Insights helps customers clearly identify areas for operational reductions, and get a whole picture of historical and current emissions, guiding them toward the least carbon intensive operational windows.

### Nodal-level Consumed Carbon Emissions.

MISO worked with Singularity to explore nodal-level consumed carbon emissions across Carbon Flow for the first time.

### Impact of Behind-the-Meter Solar on Carbon Emissions.

SCE worked with Singularity to implement Carbon Flow on a distribution network, demonstrating the impact of behind-the-meter solar on consumed carbon emissions at the highest possible level of spatial granularity.

### Creating a Framework for Energy Procurement.

Singularity Energy released a white paper that introduces a new framework that can be used by companies to think about how to procure electricity in a way that maximizes the value for voluntary clean energy markets. The research was supported by Google. The Beetle Group contributed subject matter expertise.

### Clean Response and ESG Reporting Capabilities.

Enersponse worked with Singularity to create Clean Response, which allows users to continue to avoid frequency consumption when the electricity grid's carbon intensity is high but now with even more granularity and visibility.

## In the media.

> Utility Dive
> **Google-backed white paper offers framework for deliverability in clean energy procurement standards**

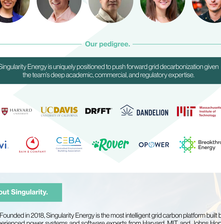
> CNBC
> **But technology does exist to allow hourly matching, Wenbo Shi, the CEO of Singularity, told CNBC. His company makes that technology. Hourly and even sub-hourly clean energy matching is not only technologically feasible, but it is already being implemented and used by many. The barrier to adoption is not technology, but policy," Shi told CNBC.**

> Forbes
> **Why Companies Need To Start Quantifying Their Efforts Around Carbon.**

> Carbon Herald
> **Tracking Emissions On An Hourly Basis Is Going To Be Critical For Informing Decarbonization Policy" – Greg Miller, PhD – Research and Policy Lead at Singularity Energy**

> SunCast
> **Video: This Savvy Energy Startup Measures The Carbon On The Grid**

## Team behind Singularity.



### Advisors.

### Our pedigree.

Singularity Energy is uniquely positioned to push forward grid decarbonization given the team's deep academic, commercial, and regulatory expertise.

## About Singularity.

Founded in 2018, Singularity Energy is the most intelligent grid carbon platform built by experienced power systems and software experts from Harvard, MIT, and Johns Hopkins. Singularity's platform provides high-quality, time and location-based grid emissions data, and a suite of innovative products and intelligent tools for grid operators, utilities, companies, and service providers to help them better understand and optimize their grid emissions.

Singularity Energy is a winner of the Harvard Physical Science & Engineering Accelerator, the Greentown Labs Bold Idea Challenge in partnership with Schneider Electric, the National Science Foundation Small Business Innovation Research Grant, and a URBAN-X company. Singularity's investors include top climate tech and energy venture capital firms – Spero Ventures, Energy Impact Partners, Third Sphere and J Ventures.

## Thank you for your support!

Thank you for your ongoing support, and for taking the time to read our Year-in-Review. If you have any thoughts, questions, or feedback please don't hesitate to reach out to us via email at info@singularity.energy or click the button below.

How would you rate our Year-in-Review?

Great, Good, Okay

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