

Standing on the Shoulder of Giants



Open source is the cooperative, open and global demonstration of technology combined with knowledge transfer and proof.

The scientific consensus on which our prosperity is built upon, uses the same principle.



- Vandana Shiva

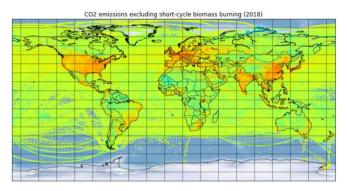
"If I have seen further it is by standing on the shoulders of Giants."

- Isaac Newton





Truly Sustainable is Open



Emissions Database for Global Atmospheric Research

Transparency and Trust

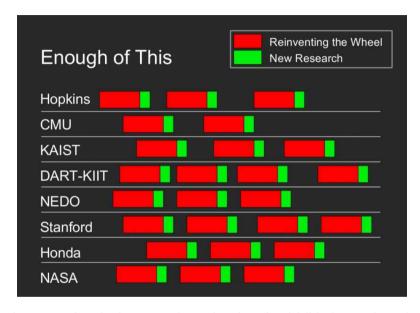
Today, sustainability is massively misused for marketing only purposes. Through the publication of life cycle assessments, datasets and models we can **create an open measure about what is actually sustainable.**

Collaborative Innovation

Climate change is a global problem that cannot be solved by "intellectual property". Only through the worldwide exchange of sustainable technology and knowledge the effects of climate change can be solved on a global scale.



Stop Reinveting the Wheel



Most of the time spent in robotics was reinventing the wheel (slide from Eric and Keenan pitch deck)

The Unix philosophy emphasizes building simple, short, clear, modular, and extensible code that can be easily maintained and repurposed by developers other than its creators. The Unix philosophy favors composability as opposed to monolithic design. Wikipedia



Marketing in Open Source A Necessary Burden

Many excellent open source projects fail due to a lack of users and contributors.

- User do not know how to discover high quality open source projects.
- Most open source projects lack marketing experience.
- Many institutions use self-hosted git repositoriy of there projects.
- Active projects are lost in the sheer mass of incative projects.
- Most open source project can not be cited in papers and other publications.
- Many projects release data and software open source for reproduceability and transparency and not for bulding an active community around it.



Unfortunately, good projects and ideas no longer spread by themselves in a world where everyone is screaming for attention.



Simple methods to spread your project

Marketing of Open Source Projekts is possible **without** investing into advertisement

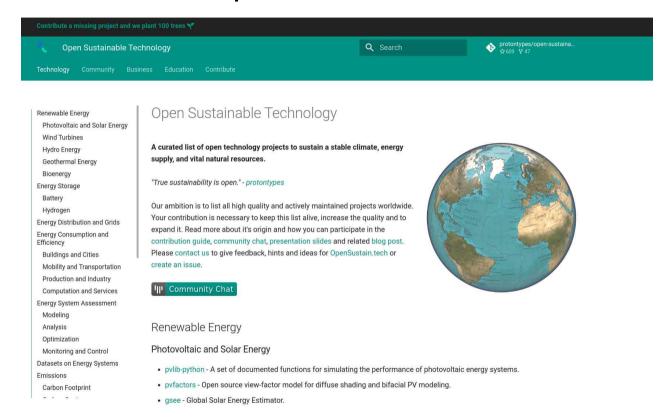
- Get in touch with the community. (LF Energy, Climateaction.tech, openmod.org, pangeo.io, protontypes,..)
- Create a recognition effect for your project (Logos, website, images, artwork,...)
- Post your project (HackerNews, Reddit, Twitter, OpenSource.com,....)
- Publish your project in a journal (Journal of Open Source Software, DOAJ,...)
- Create a professional public appearance with a unique email address and domain name.
- Add your projects to awesome list and other indexes.
- Create a simple community chat, posting guide, and welcome culture.
- Be creative how you do marketing. (A good example: https://github.com/auchenberg/volkswagen)



Most open source projects are non startups and grow very slowly, especially in the beginning. Finding the first users and contributors will be the hardest.

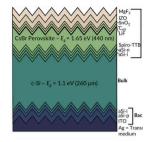


OpenSustain.tech

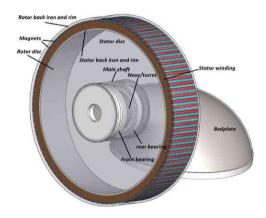




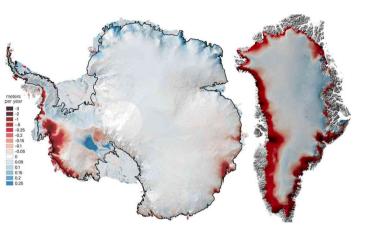
Finding Hidden Gems



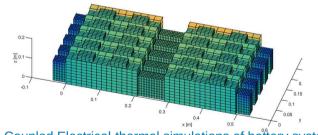
Raytrace Modelling in PV



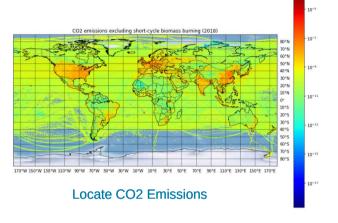
Reference Turbine Standards and Construction Plans

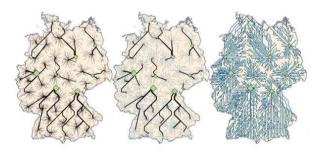


Monitoring the poles



Coupled Electrical-thermal simulations of battery systems





Hydrogen Infrastructure Model



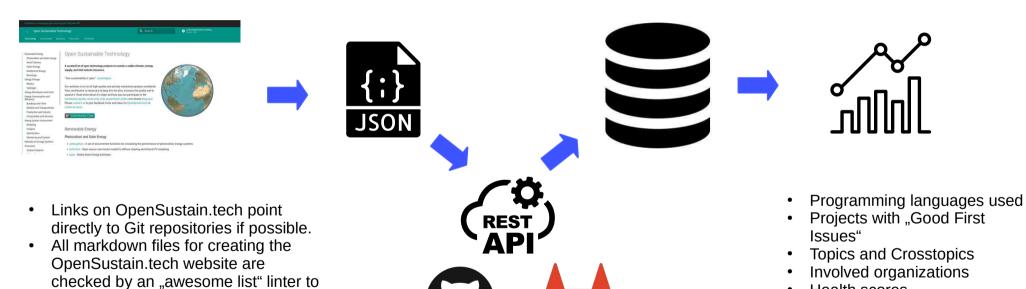
Next steps for OpenSustain.tech

- 1. Identify new and missing projects
 - Involving and growing community
 - Free Marketing for projects that are contributed to OpenSustain.tech
 - Technology scouting by projects members
 - Planting of 100 trees for every accepted pull request with the help of Continuous Reforestation.
- 2. Automated statistics of listed projects via the Git* API
 - Measure the health of a projects.
 - Discover interrelations between projects.
 - Analysis the growth of a projects.
- 3. Improved user experience
 - Create a database with improved search function.
 - Enable clustering of projects based on used defined criterias.





Measuring Open Sustainability





ensure automated processing.

Health scores

Popular dependencies Total contributors

Open Carbon Offset

