

Empowering companies to reduce emissions from cloud-based software

B2B SaaS Impact Startup



Today:

Green Software Development

Climate impact from software industry

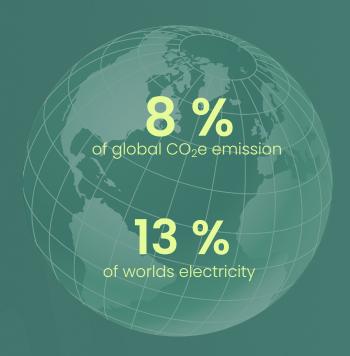
Today

2% of global CO₂e emission



2030

Estimated to consume up to:





More than the heavy duty vehicle industry

Who are driving this growth?



Empower & Engage





Green Software Development

"I used to think full-stack meant like a website to a database. And now I understand full-stack means like, from user behavior to how electricity is bought and sold on a grid."

Asim Hussain - Director Green Software Foundation



The Fullstack concept extended



Electricity Sources





Carbon intensity



fluctuations



Geographical distances

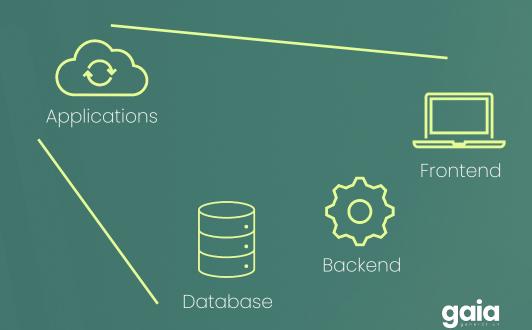




Customer Behaviours



Development & Operations



Recommendations to optimize for the climate











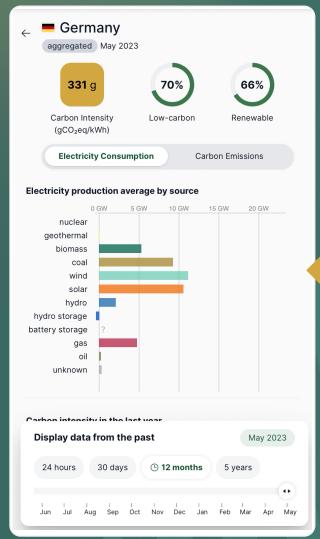
Today:

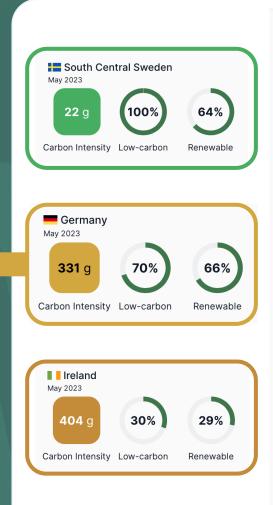
More than 60% of the world's electricity is generated from fossil fuels

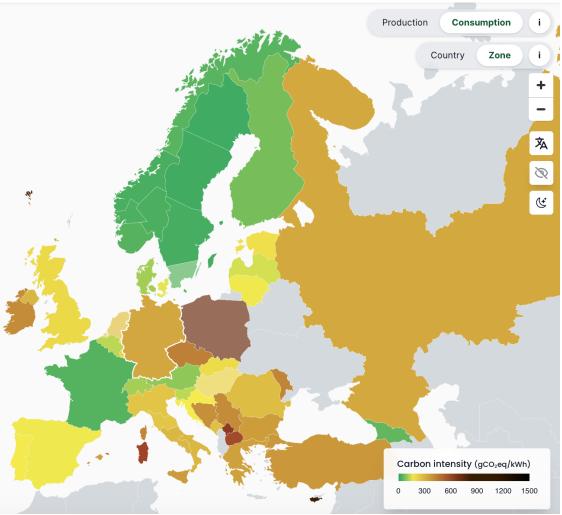


GREEN SOFTWARE DEVELOPMENT

Re-location







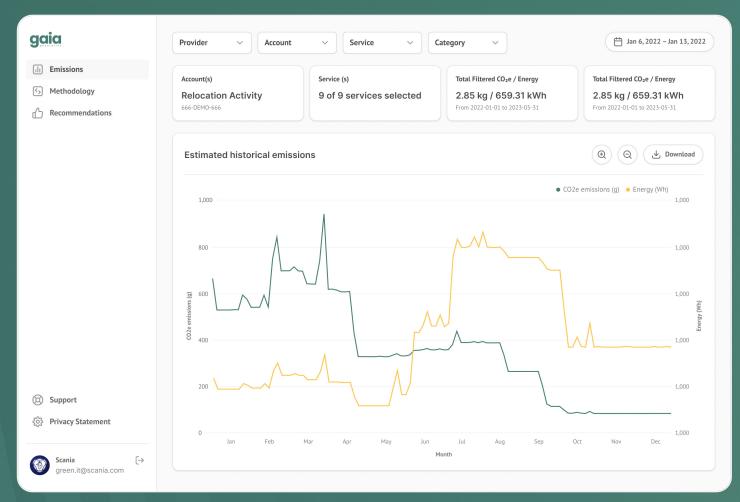
Visualising CO2e emissions & energy consumption from cloud native IT systems

Multicloud support





- Close feedback loop
- World Class Granularity
- Aligned with CSRD
- Enterprise ready





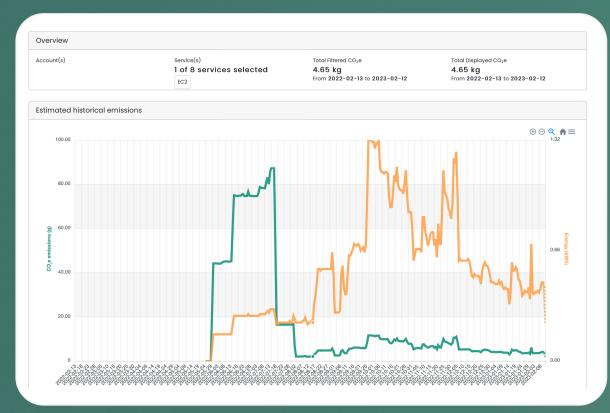
GREEN SOFTWARE DEVELOPMENT

Re-location use cases









The daily average CO₂e emissions is lowered with

- 95%

The daily average CO₂e emissions is lowered with

- 90%



GREEN SOFTWARE DEVELOPMENT

Re-location use cases









The daily average CO₂e emissions is lowered with

- 94%

The daily average CO₂e emissions is lowered with

- 98%



What do software practitioners want?



92%

of software practitioners are concerned about climate change

62% answered they are VERY concerned.



of software practitioners say they have or want to implement carbonaware features

Activities they have already identified



40%

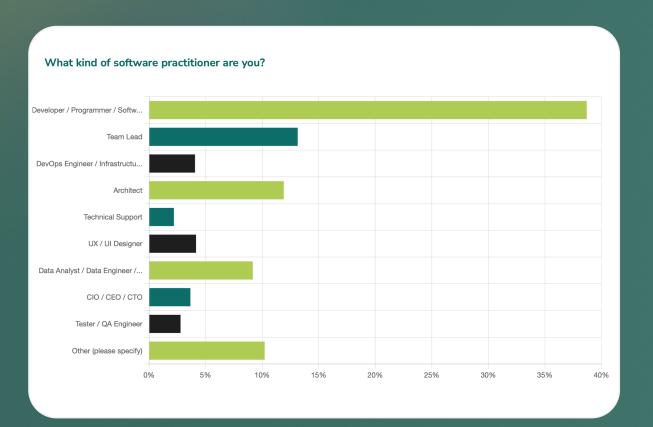
millennials say they've chosen to work for an employer because of their sustainability work

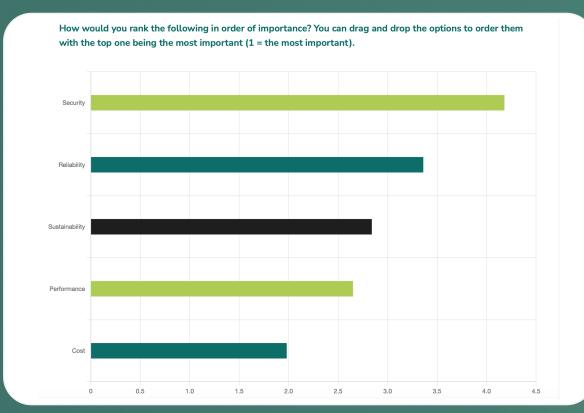
and 30% said they decided to leave a job because of poor sustainability performance.



LATEST STUDIES

What do software practitioners want?





What do CIOs and CTOs want?



Attract & retain tech talent



Deliver on future customer demands



Show progress in sustainability work



Stay Compliant

CSRD - EUs new legislation

- Directly affects companies with over 250 employees
- Comes into force fiscal year 2024
- Will guide investors
- Emissions reporting demands for supply chain (Scope 3)
 - Increased Transparency
 - Calculations based on primary data (actual usage/consumption data)
 - o Full transparency on calculation model
 - Reporting due for Audits
 - Companies need to report on optimizations / reduced emissions year by year (removals not allowed)



Main takeaways of Green Software Development

- CSRD will hit the software industry with a bang!
- Companies are requesting location-based data to align with emissions reporting
- The software developers and architects have a lot of influence on where to host workloads (in the cloud)
- Green Software Development is happening!





My message to you:

For Germany to become an attractive region to host software, it's carbon intensity needs to decrease substantially!

Probably decrease with 90% to be below 45g CO₂e / kWh

