

FOR SUSTAINABLE INNOVATORS

Tokenize the energy transition

Represent, monitor and validate sustainable assets & green buildings with tradeable crypto tokens

SIEMENS

FOR A SUSTAINABLE WORLD

Tech for Sustainability Campaign 2023

Tech for Sustainability is a global initiative for students, researchers, startups, and innovative individuals to leverage technology to solve real-world sustainability challenges and shape our future alongside Siemens.

Leverage technology to shape a sustainable future

Siemens AG is a technology powerhouse that brings together the digital and real worlds to benefit customers and society and thus people around the globe. The company - having shaped each of the four industrial revolutions - focuses on intelligent infrastructure for buildings and decentralized energy systems, on automation and digitalization in the process and manufacturing industries, on water solutions, and on smart mobility solutions for rail transport, but also in financial services and software development.

As a global ideation campaign, Tech for Sustainability is designed to engage innovators outside of Siemens in order to come up with unique solutions for problems with a focus on sustainability. In a hackathon, the innovators who have been particularly successful in the early stages of the Campaign will have the opportunity to create a proof-of-concept and proof-of-feasibility for their ideas. The different phases of the campaign and their timeline are shown in figure 1.

“Sustainability is in our very DNA. It is not an option. It is a business imperative.”

Judith Wiese, Chief People and Sustainability Officer, Member of the Managing Board of Siemens AG

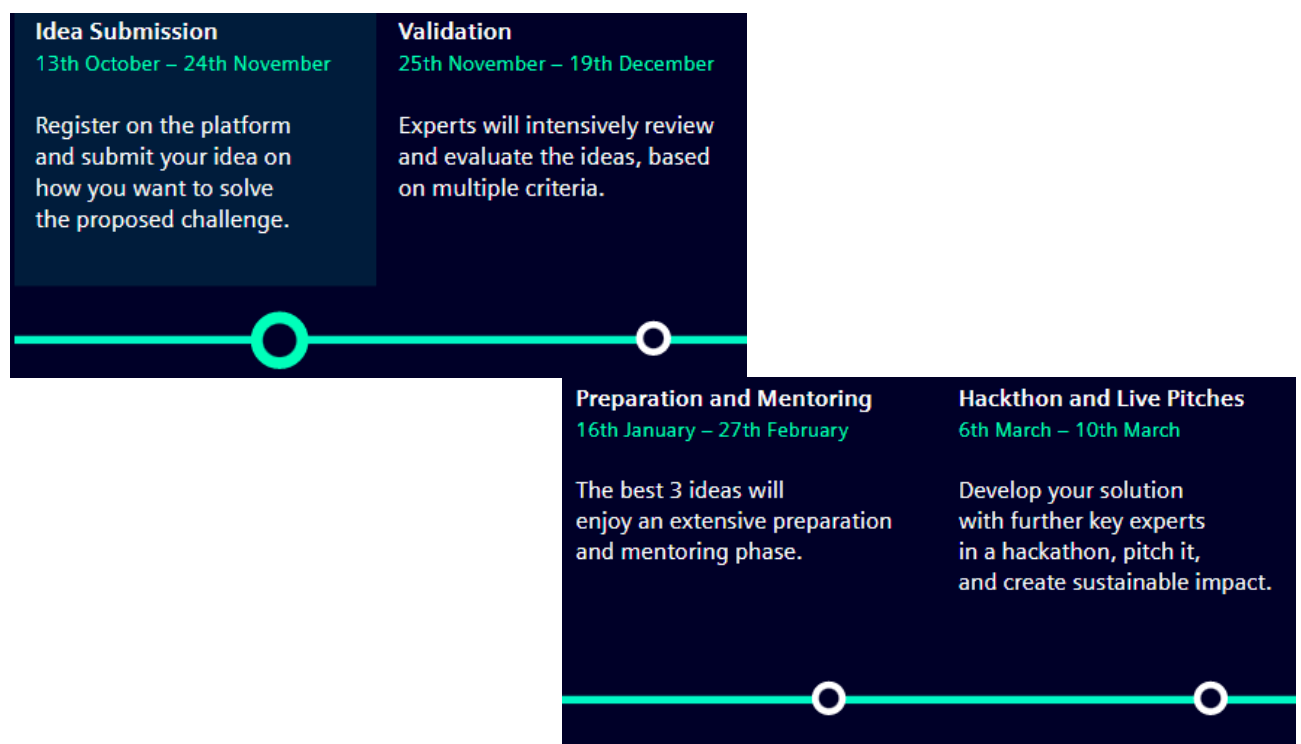


Figure 1 - Timeline and phases of the campaign



What's in for you?

1. Work with us - Let's solve real problems together to move towards sustainability.
2. Work on-site - The teams with the best ideas will develop their applications further during a hackathon. They will get to work on-site or remotely for the development of their proof-of-concepts.
3. Win Prizes - Three winning teams per challenge – 1st 5,000€, 2nd 3,000€ and 3rd 2,000€

How do you get to the next phase?

All ideas will be evaluated by Siemens experts based on the following criteria. So, keep them in mind:

- a) Innovativeness: Incremental or disruptive innovation
- b) Sustainability: DEGREE and impact on the UN Sustainability Development Goals
- c) Feasibility: Degree of technical and/or economic feasibility
- d) Potential: Fit to Siemens processes, products and markets
- e) Implementation: General implementation efforts (Time to market, R&D costs, etc.).

Join the campaign and create impact on real problems together with go-getters and solution seekers of the world by submitting your ideas.

<https://siemens.com/techforsustainability>

SIEMENS SMART INFRASTRUCTURE CHALLENGE

Tokenize the energy transition

Represent, monitor and validate sustainable assets & green buildings with tradeable crypto tokens

To reduce global warming, completing the energy transition is critical!

The good news is that many technologies to support a sustainable energy transition are already available!

But still, due to the lack of commercially viable financing channels, sustainability projects are often not realized or slowed down. At the same time institutional investors (e.g. banks, funds) are on the lookout for impact investments and related securities in energy efficient assets and corresponding infrastructure. However, they are hindered from investing capital in these areas due to a lack of transparency regarding available investment opportunities, and missing guarantees on the ESG impact (Environmental, Social, Governmental).

At Siemens, we see the need for a marketplace to bring together all involved stakeholders for a sustainable energy transition: a platform to connect innovators, engineers and entrepreneurs, with groups of investors and funders.

Siemens is a globally operating systems integrator for sustainability assets, combining hardware with software at the Grid Edge. We combine renewable energy supply with energy storage solutions (e.g. batteries), e-vehicle charging infrastructure (e.g. charging wall boxes), and facility improvement measures to reduce energy demand in real estate - all striving towards smart infrastructures and green buildings.

Utilizing cloud-based platforms, management systems and rule-based analytics, Siemens acts as service provider with the capacity to build, operate and maintain such sustainability assets and to give a performance guarantee, e.g. with regards to CO2 emission reduction.

Now let's digitalize these fixed physical assets and make them easy to invest in!

Blockchain could be the enabling technology to increase investments in sustainable assets!

Blockchain can enhance speed and operational efficiency for all stakeholders who are driving the energy transition.

Crypto Tokens enable high liquidity, audit-proof measurement and verification, e.g. for sustainability reporting.

How can you create impact?

Hey blockchain experts, we are looking for your ideas to increase investments in sustainable assets! We encourage you to share your ideas on how to enable impact investors to screen, benchmark and acquire sustainable investment opportunities, support asset providers to easily tokenize their assets and mint a carbon-neutral token to track the holistic carbon footprint.

The following questions may help you to identify the most suitable digital solutions:

- How can we enable Impact Investors to screen, benchmark and acquire such sustainable investment opportunities?
- How can we support asset providers to easily tokenize their assets without a deeper understanding of blockchain?
- How can we digitalize sustainable assets and green buildings and define the crypto token functionalities?
- How can we mint a carbon-neutral token and track the holistic carbon footprint?
- How can we utilize the crypto token to monitor ESG metrics & validate the asset performance?

Let's significantly increase the speed of the global energy transition with your solution of this challenge!

By enabling Tokenomics, we reduce the time taken to match asset providers with investors. It also paves the way for dynamic market pricing for sustainable assets and for tracking their performance. The assets no longer have geographical boundaries, can be traded globally and investment exits are possible at short notice, or even spontaneously! Sustainable projects and assets will contribute to a positive return of investment (e.g. negative CO2 abatement cost).

Do you want to be part of a sustainability Tokenomics eco-system with Siemens? What are you waiting for? Tune in on the kick-off event on the 13th of October at 4:30 p.m. (CET) and submit your solution!

Tech for Sustainability Campaign - For a sustainable world

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