

# Green Energy Hub – Project Proposal

## General information

Name of project	Green Energy Hub
Project description (what it does, why it is valuable, origin and history)	<p>Energinet engages with Green Energy Hub in Open Source with a desire to accelerate the green transition</p> <p>The movement must be seen in relation to Energinet’s vision and strategy, as well as the political ambitions of Europe - in particular the Danish ambitions for 100% renewable energy in the electricity system by 2030 and a climate-neutral society by 2050.</p> <p>We want to use digitalization as a way to accelerate a market-driven transition towards a sustainable and efficient energy system, and we will build the foundation for both new market participants and business models through digital partnerships.</p> <p>We want to create access to relevant data and insights from the energy market and thereby pushing our goals and direction.</p> <p>We believe that across TSOs, market participants and technology companies, we can support reaching the goals through an open and equal collaboration.</p> <p>Therefore, we have chosen an approach that we believe best supports our overall vision.</p> <p>We see an opportunity to reduce the cost of software, but also to greatly increase the quality and pace of development through open collaborations. It is a method and approach that we see is increasingly gaining prominence in TSO cooperation. Energinet is not an IT company, and therefore we do not sell systems, services, or operate other TSOs. Our core business is clear and it must be maintained but we can contribute to the acceleration of change inside and outside the country through the methods and tools we use – in the movement we see open source as an important tool.</p> <p>If we can accelerate and disseminate our green digital solutions, we see an opportunity to accelerate the green transition and increase socio economic value creation.</p>
Project lead	<p>Mogens Juul Sass-Petersen, Energinet DataHub A/S, Business Lead</p> <p>Martin F. Hansen, Energinet DataHub A/S, Technical Lead</p>
Project financial sponsor organization(s)	Energinet DataHub A/S
Names of other key contributing individuals and organizations	<p>John Donnelly, Microsoft.</p> <p>Jason Lachance, Microsoft</p>

Proposed Technical Steering Meeting (TSC) members	Mogens Juul Sass-Petersen, Energinet DataHub A/S Martin F. Hansen, Energinet DataHub A/S Martin Lervad Lundø, Energinet Datahub A/S
Existing community links:	<a href="https://github.com/Energinet-DataHub/Green-Energy-Hub">https://github.com/Energinet-DataHub/Green-Energy-Hub</a>
Repository hosting	<a href="https://github.com/Energinet-DataHub/Green-Energy-Hub">https://github.com/Energinet-DataHub/Green-Energy-Hub</a>
Project website and docs	Currently not established but expect to do this in collaboration with LFE.
Mailing lists, slack, irc	General inquiries: <a href="mailto:greenenergyhub@energinet.dk">greenenergyhub@energinet.dk</a> Security: <a href="mailto:greenenergyhub_security@energinet.dk">greenenergyhub_security@energinet.dk</a>
Social media accounts	N/A
Project security plan	<a href="https://github.com/Energinet-DataHub/green-energy-hub/blob/main/SECURITY.md">https://github.com/Energinet-DataHub/green-energy-hub/blob/main/SECURITY.md</a>
Link to code base	<a href="https://github.com/Energinet-DataHub/Green-Energy-Hub">https://github.com/Energinet-DataHub/Green-Energy-Hub</a>

## Open source status

Please describe the project's license.	Apache v. 2.0
Is this project's code publicly posted? On github or elsewhere?	Yes. Please see link above to Green Energy Hub
Does this project have ongoing public (or private) technical meetings?	Yes, private meetings inside Energinet but decisions are visible on Green Energy Hub: <a href="https://github.com/Energinet-DataHub/green-energy-hub/tree/main/docs/architecture-decision-record">https://github.com/Energinet-DataHub/green-energy-hub/tree/main/docs/architecture-decision-record</a>
Do this project's community venues have a code of conduct? If so, what is it?	<a href="https://github.com/Energinet-DataHub/green-energy-hub/blob/main/docs/code-of-conduct.md">https://github.com/Energinet-DataHub/green-energy-hub/blob/main/docs/code-of-conduct.md</a>
Describe the project's leadership team and decision-making process.	Energinet uses the Scaled Agile Framework (SAFe) to lead the project with Business Owners, an Agile Release Train Management Group and several scrum teams. A dispatcher role and a steering group will be established to ensure contributions from the open source community will be prioritized according to the goals, purpose and strategy for the Green Energy Hub.
Does this project have public governance (more than just one organization)?	No
Does this project have a development schedule and/or release schedule?	Yes, expected release date September 2022
Does this project have dependencies on other open source projects? Which ones?	No
Describe the project's documentation.	<a href="https://github.com/Energinet-DataHub/Green-Energy-Hub">https://github.com/Energinet-DataHub/Green-Energy-Hub</a>
Describe any trademarks associated with the project.	None

## Project status

Do you have a project roadmap? please attach [Are this project's roadmap and meeting minutes public posted?]	The solution roadmap can be found here: <a href="https://github.com/Energinet-DataHub/green-energy-hub#Solution-Roadmap">https://github.com/Energinet-DataHub/green-energy-hub#Solution-Roadmap</a>
Does this project have a legal entity and/or registered trademarks?	No
Has this project been announced or promoted in any press?	Yes: <a href="https://www.youtube.com/watch?v=0QTLLI-xfUU&amp;list=PLKyFf1J9XkpvBL5EoGwXzry3btaE6sXKE&amp;index=10">https://www.youtube.com/watch?v=0QTLLI-xfUU&amp;list=PLKyFf1J9XkpvBL5EoGwXzry3btaE6sXKE&amp;index=10</a>
Does this project compete with other open source projects or commercial products?	No.

## Project value

Why would this project be a good candidate for inclusion in LF Energy?	This will be a system that contributes to the rising area of datahubs within the power system sector. The Domain Driven Design of the Green Energy Hub into smaller independent domains allows the open Source community to use only the domains that are needed for them but also gives the opportunity to add new domains.
Provide a statement on alignment with the mission in the <a href="#">LF Energy charter</a> .	The project aligns with the LFE mission as it helps to accelerate the green transition through a market-driven change towards a sustainable and efficient energy system. The project builds a flexible foundation for both other market participants and new business models through digital partnerships.
What specific need does this project address?	Creates a common ground for energy hubs to support liberalization and centralized communication of upstream electricity markets.
Describe how this project impacts the energy industry.	It is a pioneer open source project in the area of electricity consumption and associated processes that creates a common ground for energy hubs and empowers innovation to accelerate the green energy transition.
Describe how this project intersects with other LF Energy projects.	N/A
Who are the potential benefactors of this project?	Electricity Transmission System Operators (TSO) and Distribution System Operators (DSO). Tech-companies developing metering systems.
What other organizations in the world should be interested in this project?	Electricity Transmission System Operators (TSO) and Distribution System Operators (DSO). Tech-companies developing metering systems.

## Project needs

How would this project benefit from inclusion in LF Energy?	The inclusion of the Green Energy Hub in LF Energy will provide access to a platform and a community for collaboration within and across sectors which is a great possibility to accelerate the green transition.
Please describe any infrastructure needs or requests (e.g., web hosting).	None at the moment.
Plan for achieving next maturity level (Incubation -> Early Adoption -> Graduated).	The plan is to go from "Incubation" -> "Early Adoption" within the next 6-12 months. Expected main challenge: growth in the project's community.