





Green & circular energy park

- A physical platform
- >>> Own supply of 100% green energy 80MW wind and solar energy
- Sector integration in practice: Industry coupled with PtX through SymbiosisNet, our coming intelligent grid of energy and data

Technology enabler

- "The perfect host" for technology companies. We provide infrastructure and services that reduce time-to-market
- >>> We introduce the chicken to the egg and create new markets
- Green transition facilitator

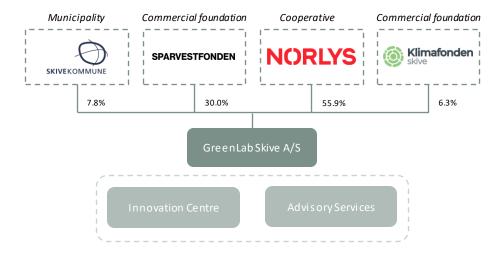
National research facility

- >>> A center for knowledge and green innovation within intelligent and integrated energy
- Accelerate R&D to commercial scale
- >>> Skill development



Shareholders & governance structure

Ownership structure



Board of Directors





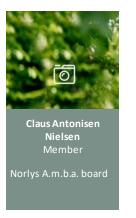
BoD of Vestas













The components of a "no waste" ecosystem











GENERATE

We generate sustainable energy for our partners

STORE

The green energy is stored in all its forms:

Electricity, heat, gas and electrofuels

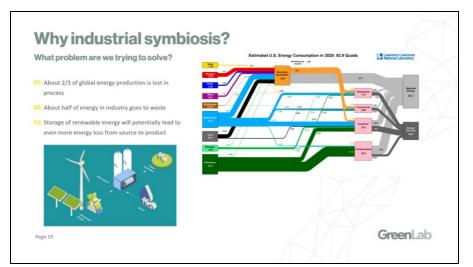
SHARE

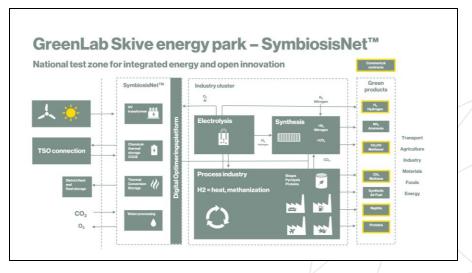
The SymbiosisNet™ is an intelligent grid of energy and data that lets our companies share their surplus energy



Pilot green and circular industrial cluster

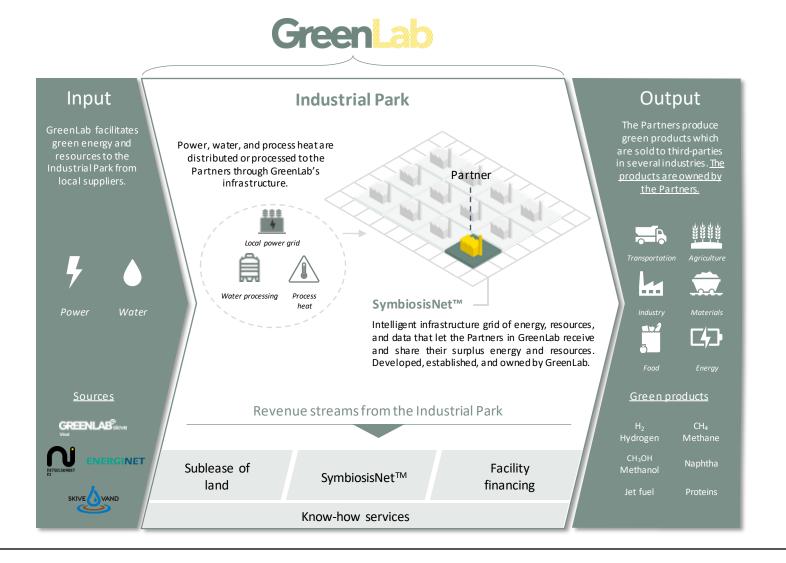
- a showcase of tomorrows energy system





- >>> **Co-location is key** direct connections, test zone need to alleviate existing electricity infrastructure from bottlenecks.
- >>> We execute on sector integration and circular economy optimized utilization of RE through SymbiosisNet
- **We want to make a global impact** The GreenLab model accelerates the green industrial transition through an adaptable, replicable methodology which is designed to scale-up and globalize.

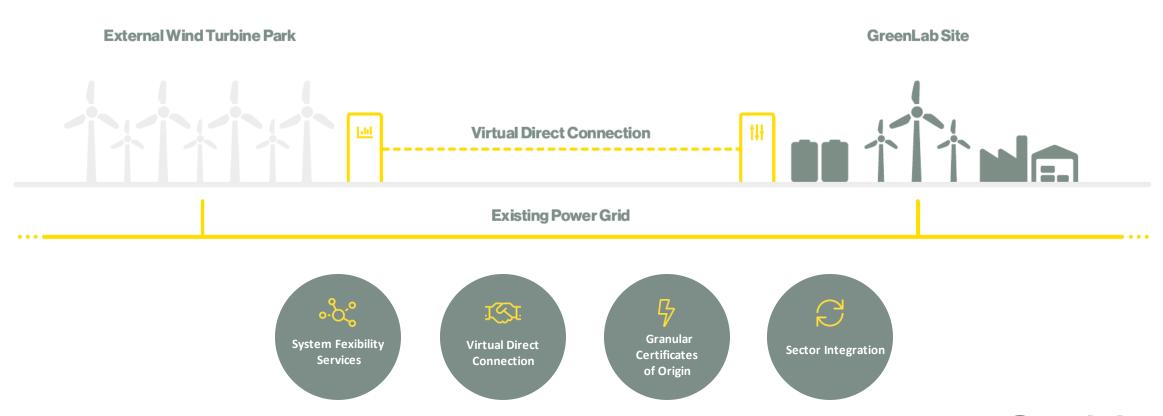






GreenLab Skive Energy Park

Collaboration with DSO/TSO





Unique regulatory test zone & "The GreenLab Law"

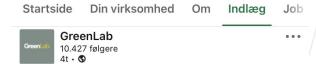
ENERGY WATCH



Today is a great day for the green transition! The national transmission company <u>Energinet</u> and <u>GreenLab</u> have agreed to establish a Learning Lab to test new energy and supply solutions exploiting GreenLab's unique test zone cluster environment.

We will explore new solutions to accelerate sector integration, system flexibility, and data-driven systems and we will challenge the current market models to determine mutual incentives and high social impact for Denmark's green transition





Lad den grønne energi flyde! Ny lovændring gør det nemmere at udnytte lokale sol- og vindressourcer i regulative testzoner som GreenLab.

Vi er glade for at Folketinget i går vedtog en vigtig ændring af elforsyningsloven, som muliggør lokal, kollektiv tarifering. Det betyder, at GreenLab og andre regulative testzoner i Danmark får lov til permanent at beholde de fordelagtige vilkår, som en midlertidig testzonetilladelse giver. Det gør os i stand til at udnytte lokalt produceret grøn strøm på den mest optimale måde.

Fra i dag er der dermed skabt *nye* rammer for både tariferings- og afregningsmodeller og det gør det muligt at teste endnu flere innovative og grønne forretnings- og energimodeller af i praksis.

Der er blevet arbejdet benhårdt af partnere og medlemmer i klima-, energi- og forsyningsudvalget, og vi har været glade for en åben og effektiv dialog med politikerne. Vi vil gerne sige et særligt tak til Signe Munk og Anne Paulin, som har gjort en særlig stor indsats for a realisere ændringen af elforsyningsloven.

Derudover er vi utrolig stolte af, at GreenLab er nævnt som et eksempel direkte i betænkningen. Læs med her: https:// lnkd.in/eKTXTvgn

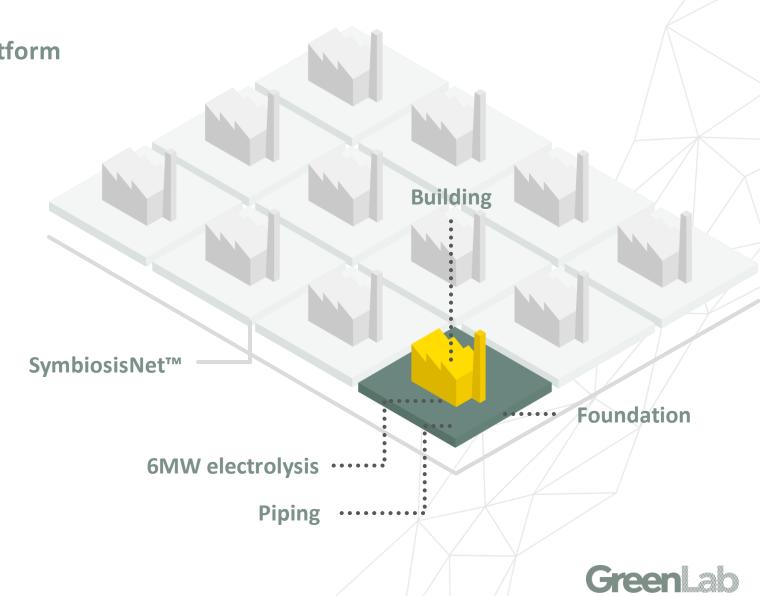
#letscreateapowershift #greentransitioninaction #elforsyningsloven



Facility-as-a-Service

A plug-and-play industrial energy platform Adaptable, Replicable

- A unique hosting environment full infrastructure provided for green companies
- Open innovation platform with access to green power and the SymbiosisNet™
- >>> Faster time-to-market, lower capex, lower cost of green production
- >>> Full utilization of clean energy



"GreenLab Skive P2X" project

12 MW by Q1 2023 – 10 mio. EUR grant

The main purpose

To demonstrate and develop the entire value chain from an effective interplay between basically known technologies (wind, solar, infrastructure, storage, hydrogen, biogas, methanol) to the valuation and marketing of green fuels, both onsite and offsite. The project contributes to solving the energy storage problem in the electricity system of the future.

























GreenHyScale 100 MW

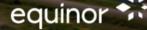
GreenLab

Everfuel

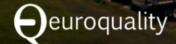
QUANTAFUEL













Imperial College London

SIEMENS Gamesa



THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NO 101036935

Replicable locally and globally

- >>> Regional development and added value to renewable energy sites
- >>> Conversion of harbour sites, combined heat and power plants and industrial clusters
- >>>> Based on know-how and cloud-based "plug-and-play" data driven learning solutions







The GreenLab Principles

Positive community effect

Sustainability

Competitive Advantage

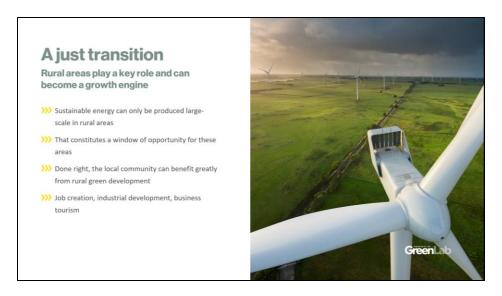
Continuous learning and development

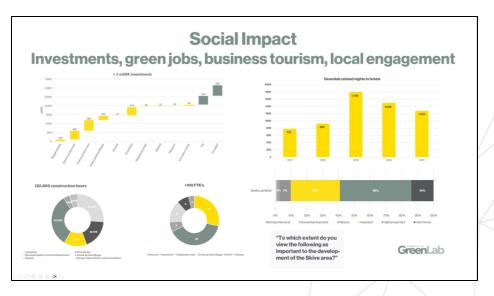
Mutual incentives

Global frontrunner: Show it, don't tell it



We work for a just green transition





- >>> We create local green growth GreenLab Skive as living proof
- >>> Our green and circular cluster model is replicable global it is important to find the niches where the biggest difference can be made locally that's what we call "sources and uses of energy" and specialize in.
- >>> We excel at Public Private Partnerships New types of collaborations are necessary to change the energy system, and we believe in and excel at strong connections between public and private players.



GreenLab Research Missions

VILLUM FONDEN



Development of the design manual for the green industrial clusters of the future

Successful optimization between fluctuations in renewable energy, consumption flexibility with industry and infrastructure costs for storage and conversions

Demonstration of valuable sector integrations that can show the way to scalable initiatives for industry in the rest of society

















Innovation Center on its way

- >>> 20 mDKK from VILLUM FONDEN for mission driven research
- Collaboration with four Danish technical universities
- >>> International, interdisciplinary Fellowship Program with Aarhus Institute of Advanced Studies
- 60 mDKK from Spar Vest Fonden and Norlys for Innovation Center – fundraisning ongoing
- GreenLab Innovation Foundation established

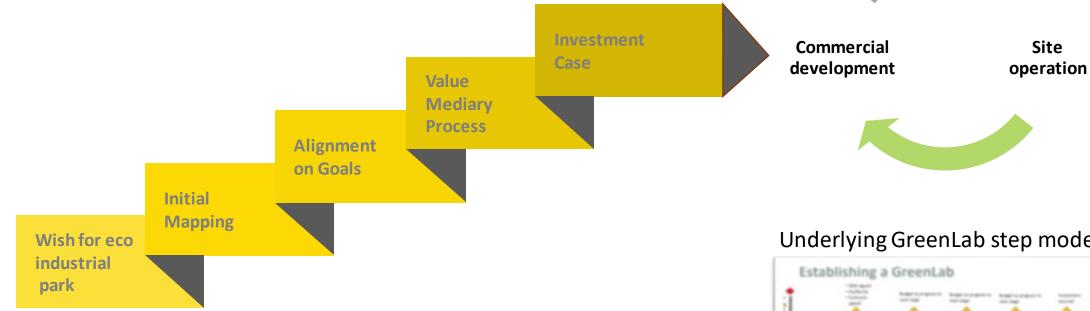






Advisory: Overall Approach

Overall approach deducted based on experiences from GreenLab Skive and Masdar City etc.

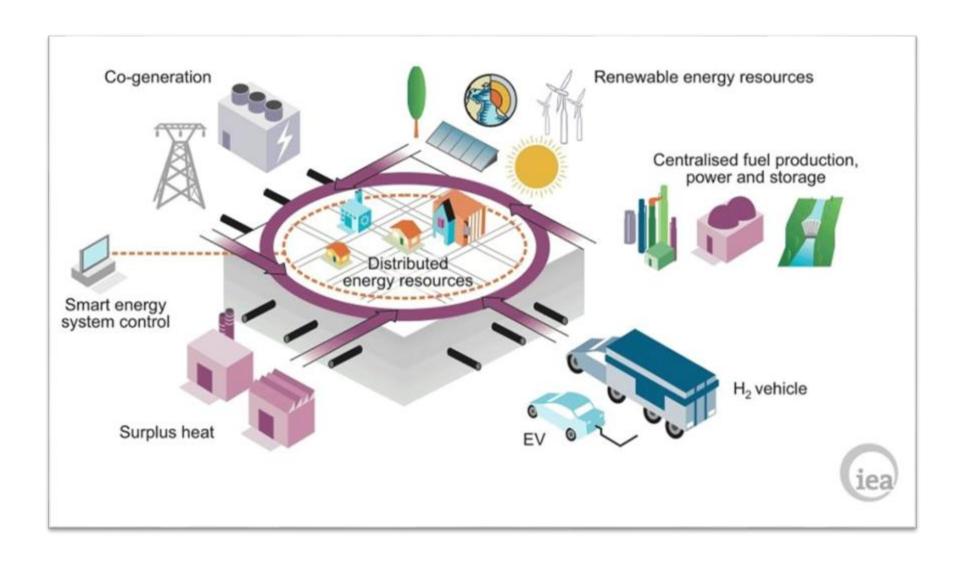


Underlying GreenLab step model



Site

What's in scope



Reference cases



Contextual analysis and opportunities

- 10 companies
- +25 opportunities
- 4 Prioritized cases
- Strategic narrative



Context based strategic inspiration

- Mapped regional opportunities
- Sketced strategic positions
- Facilitaded management and bord workshop



Context based strategic aspiration and short-term wins

- 8 companies
- +30 opportunitis
- 4 soft feasibility studies
- Strategic narrative



Feasibility Study

11 companies

2 cases

1 deep-dive feasibility analysis



GREENLAB SUMMIT 2023

A GLOBAL OUTLOOK ON THE FUTURE OF ENERGY

Wednesday, November 8, 2023

GreenLab Summit is where we invite the brightest minds to exchange ideas, inspire each other, and learn from the latest research and pioneer projects. This year, the event will be bigger than ever.

- >>> KEYNOTES
- >>> DEEP DIVES
- >>> EXPERT PANELS
- >>> GREEN TECHNOLOGY EXHIBITION
- >>> NETWORKING DINNER
- >>> SITE TOUR









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