

A short presentation of

- Who we are and what we do
- The symbiotic network
- Purpose and vision
- Our partners
- Enabling the green transition



What is GreenLab Skive

Located at the nexus of the national gas and electricity infrastructure. GreenLab Skive is the world's most advanced and truly green symbiosis



The Site Industrial Energy Park



World's most advanced fullscale symbiotic network



Green Innovation, research & development



Global partnerships & green transition



This is what we do



Infrastructure

Flexibility through conversion and optimization using multiple grids



Clean Energy/Green Products

Sustainability via a plug-and-play platform enabling the connection of multiple RE producers



Energy Conversion

Energy flexibility
via conversion and
distribution to
optimal off taker
using P2X
technology



Energy Storage

Enabling
optimization using
multiple storage
opportunities for
all relevant energy
types



Smart Grid

Intelligent
balancing with
demand-response
via unique
software solutions



Analysis, Al & IOT

Automated data collection and processing resulting in real-time energy trading, demand and prediction algorithms



Our model is a truly collaborative Public-Private-**Partnership**

COLLABORATION BETWEEN POLICYMAKERS, UTILITIES, COMMERCIAL AND ACADEMIC PLAYERS ALIGN INCENTIVES AND ENABLES CHANGE

COMPANY LEVEL

DRIVE THE GROWTH OF GREENLAB AND THE DEVELOPMENT OF OUR THE CONCEPT



MUNICIPALITY PARTNER

SKIVE City



UTILITY PARTNER

eniig

COMMERCIAL PARTNERS

PARTICIPATE IN THE COMMERCIAL SYMBIOSIS THAT ENABLES COMPANIES TO MINIMIZE CLIMATE IMPACT. REDUCE COST AND ENGAGE IN AN INNOVATIVE **COMMUNITY THAT PUSHES NEW SOLUTIONS**



HALDOR TOPSØE











ACADEMIC PARTNERS

DEVELOP STATE OF THE ART SOLUTIONS THAT CONTINUOUS TO PUSH THE **BOUNDARIES FOR WHAT IS POSSIBLE**



Technical University of Denmark



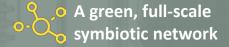


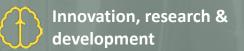
PUSHING THE BOUNDARIES BY TAKING NEW SOLUTIONS FROM R&D TO COMMERCIAL **APPLICATION**

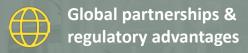
GreenLab combines green energy and intelligent technology in the world's first truly green symbiosis



The Site – GreenLab Industrial Energy Park

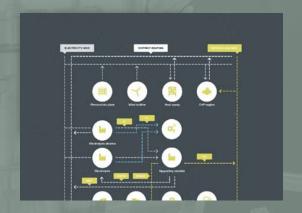








Located at the nexus of the national gas and electricity infrastructure gives an ideal environment to apply P2X Technology. The symbiotic grid connects companies that consume and supply green energy, fuels, resources and products



SymbiosNet© is the world's most advanced and first truly green commercial symbiosis. A fully integrated infrastructure for electricity, gas, fuel, thermal and data distribution enables the symbiotic energy network



Research partnerships with two of the Top 10 engineering universities in Europe: Aalborg University (#1) and DTU (#6) to expand the application of renewable energy (RE), production of clean fuels and to develop the intelligent algorithm at the center of our symbiosis



GreenLab provides solutions to some of the most pressing global challenges and we create both political and commercial partnerships with leading international organisations to support the journey towards a greener future

GreenLab reconstructs sustainable production

PURPOSE

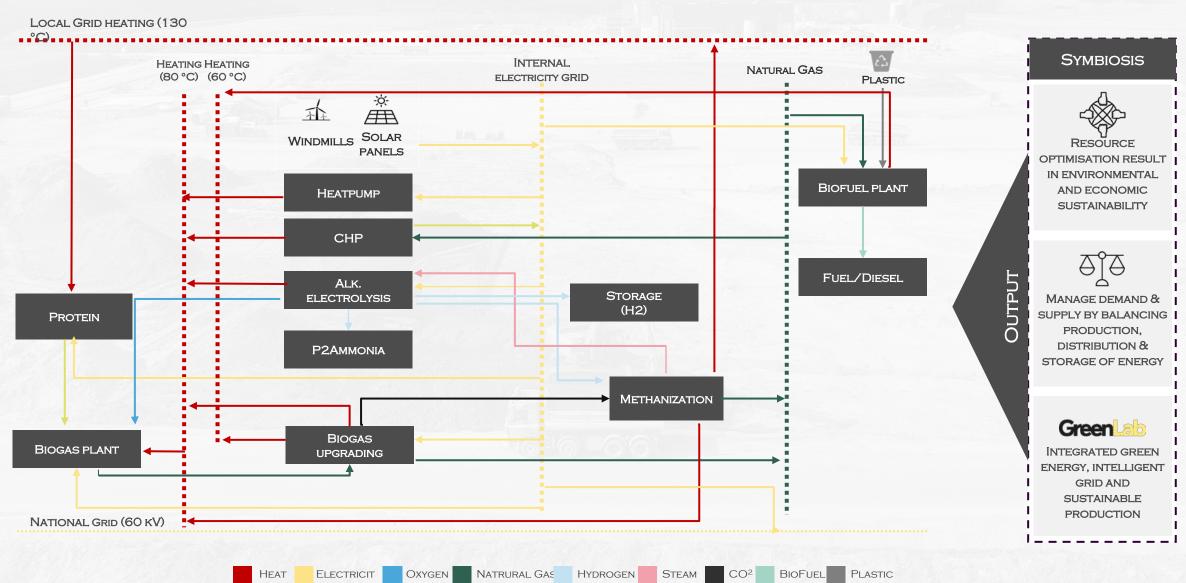
GREENLAB RECONSTRUCTS
SUSTAINABLE PRODUCTION FOR A
GREENER FUTURE. THE FUTURE CAN'T
WAIT. WE RISE NOW. WE ARE
INSTIGATING THE TRANSITION TO A
SUSTAINABLE AND MORE
COLLABORATIVE APPROACH TO ENERGY
FOR THE WORLD OF TOMORROW.

Vision

GREENLAB LEADS THE WORLD'S MOST INTELLIGENT ENERGY SYMBIOSIS. OUR DREAM IS TO IGNITE A GLOBAL ENERGY REVOLUTION, SUBSTANTIATING THE BELIEF THAT GREEN TRANSFORMATION IS NOT ONLY A FEASIBLE — BUT ALSO A PROFITABLE — SOLUTION.



THE GREENLAB CONCEPT ALLOWING OPTIMIZATION AND BALANCE

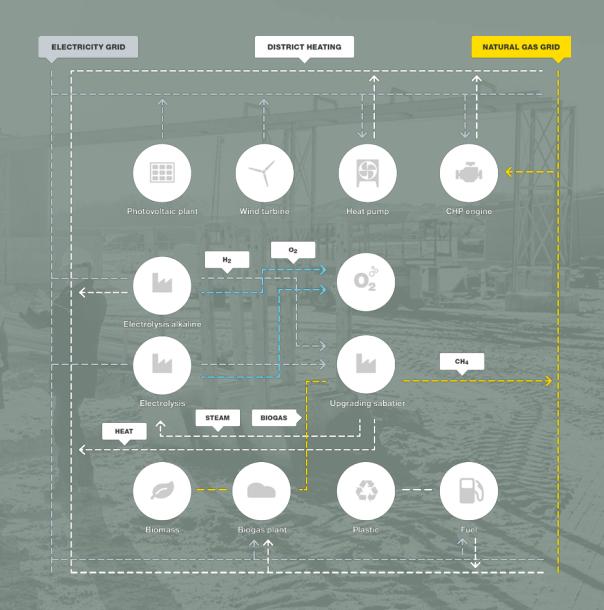


A full-scale, green symbiotic network

The SymbiosNet© is the world's most advanced and first truly green commercial symbiosis.

A fully integrated infrastructure for electricity, gas, fuel, thermal and data distribution enables the symbiotic industrial network. Fully operational by 2020.





THE GREENLAB PRINCIPLES

- 1. POSITIVE COMMUNITY EFFECT
 LOCAL GROWTH, GLOBAL VIEW, TRUST
- 2. COMPETITIVE ADVANTAGE
 ATTRACT RESOURCEFUL PARTNERS
- 3. **SYMBIOSIS TO SYNERGY**PARADIGM SHIFT PROGNOSIS TO PRODUCTS
- 4. **MUTUAL INCENTIVES**LONG TERM ENGAGEMENT

- 5. **SUSTAINABLE**ACCELERATE THE CIRCULAR ECONOMY
- 6. **CONTINUOUS LEARNING AND DEVELOPMENT**R&D TO COMMERCIAL
- 7. GLOBAL FRONTRUNNER
 SHOW IT, DON'T TELL IT

2018 2019 2020 2021

GROUNDBREAKING FOUR SITES OPERATIONAL FULL OPERATIONS EXPANSION

GreenLab enables the green transition



Hydrogen economy, mobility and renewable fuels

We drive the commercial development of production of truly clean fuels



RE use-cases and challenges with cyclicality

We power developments of clean energy storage and expand RE application to products



Increasing resource efficiency through circularity

Our circular production drives resource optimisation with a positive business case



The renewable product platform of the future

Renewable energy is needed to fill the gap towards the UN goals, which offers a huge economic potential for the GreenLab Model



Direct connection to new renewable sources with additional capacity

The GreenLab concept is currently the only system that fulfil requirements to produce 100% renewable fuels and p2x products



A biogenic CO₂ source available on site

The biogenic CO₂ source ensure climate optimised production and overcome any regulatory uncertainty



Essential partners are already in place and on site

Central partners create the backbone of the symbiosis and are committed and provide the foundation of an ideal environment



Active farmers and strong organization

GreenLab and/or partners can provide rawmateriel and financing for bioeconomy projects



This is where we are today

2018

2019

2020

2021

Groundbreaking

4 factories in operations, including 20m³ Biogas plant

Full operations, including 80MW wind and solar park with direct coupling to GreenLab SymbiosNet[©]. Start of new partner sites internationally Full industrial build out of 600,000 m2 SymbiosNet[©] energy park. Start operations at international sites



Join us and our partners

In contributing to the green transformation on a global scale



































Visit us at greenlab.dk