

An aerial photograph of a dense evergreen forest, likely a spruce or fir forest, with a rich green color palette. The trees are packed closely together, creating a textured, layered appearance. The lighting is soft, suggesting a slightly overcast day or a shaded forest floor.

Introduction

BEYONDER™



# Company Purpose & Vision



*BEYONDER is a highly innovative Norwegian tech company focused on producing, designing and implementing new energy storage solutions.*

*BEYONDER leads the way towards a sustainable high-power battery cell technology to increase the use of renewable energy in industrial applications around the world.*

# The Problem



- Non-sustainable materials used and huge CO2 emissions from current battery cells production
- Energy grid not dimensioned for the high fluctuations
  - from wind and solar energy sources
  - the massive power peaks when electrifying industry and transport.
- Long charge time, limited power, safety and lifetime limitations on current batteries

BEYONDER™



Next generation

# BATTERY CELL

technology





BEYONDER™

Charge/  
Discharge time  
2 min

High power  
and  
moderate energy

No cobalt,  
nickel or  
other heavy metals

More  
sustainable &  
higher safety

Long  
lifetime



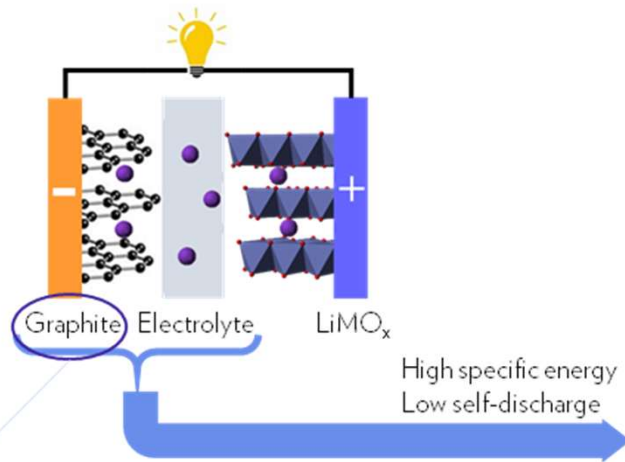
Our solution is a game-changing  
eco-friendly battery cell technology



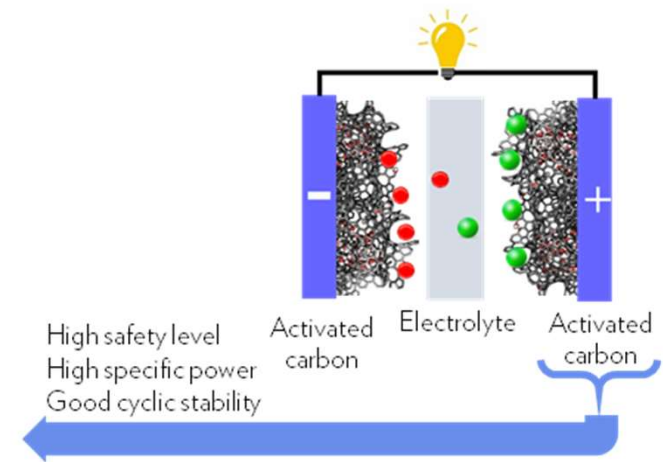


# The Solution

Li-ion battery



Supercapacitor

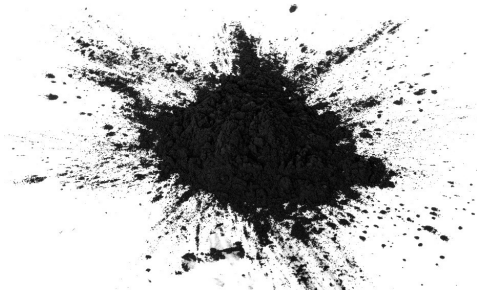


We will replace the conventional graphite with 10 times more energy dense Silicon material

# Product Line

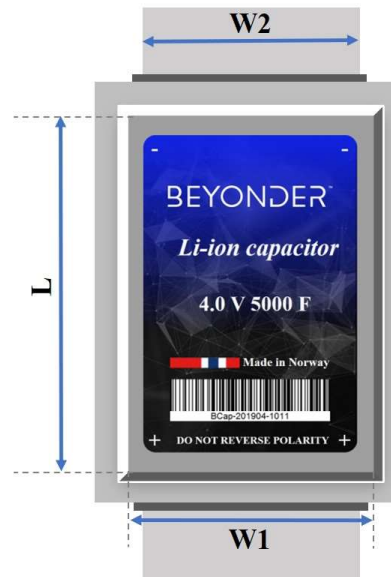
## ACTIVE CARBON

High surface area



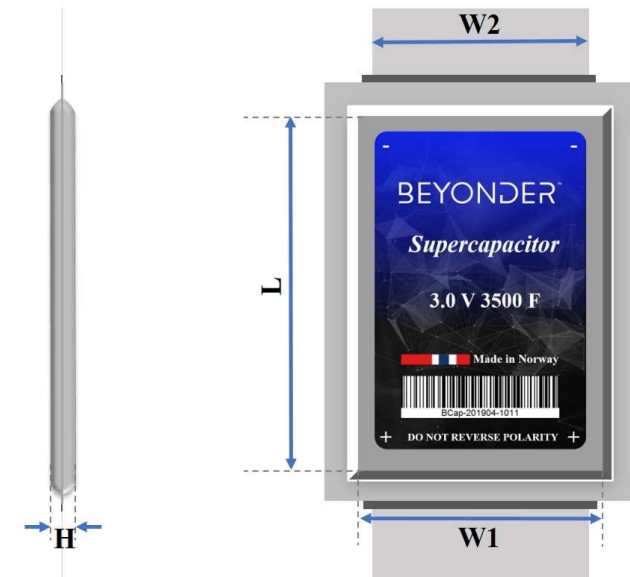
## LI-ION CAPACITOR

Combined power&energy density



## SUPERCAPACITOR

High power density



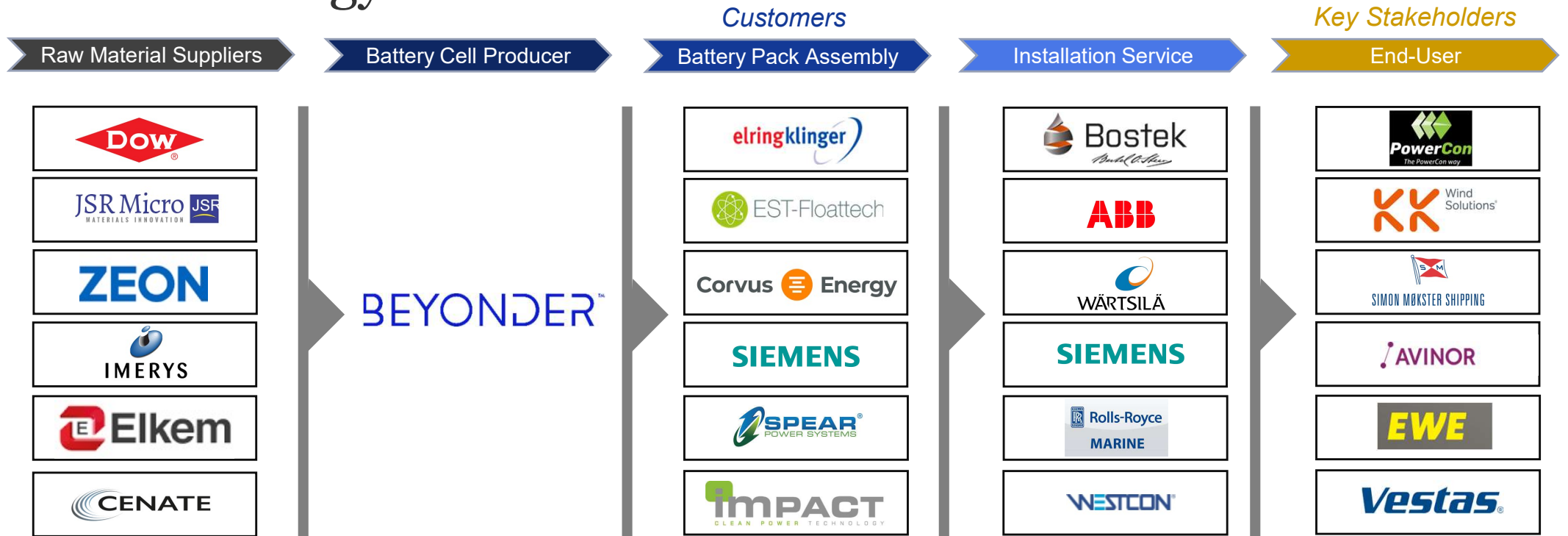


# Li-Ion Capacitor



Product	Energy density	Power density	Cyclce life
Present	15 Wh/kg	5.0 kW/kg	>10 K
1st Generation	25 Wh/kg	10.0 kW/kg	>100 K
2nd Generation	50 Wh/kg	10.0 kW/kg	>100 K
3rd Generation	80 Wh/kg	10.0 kW/kg	>100 K

# Market Strategy



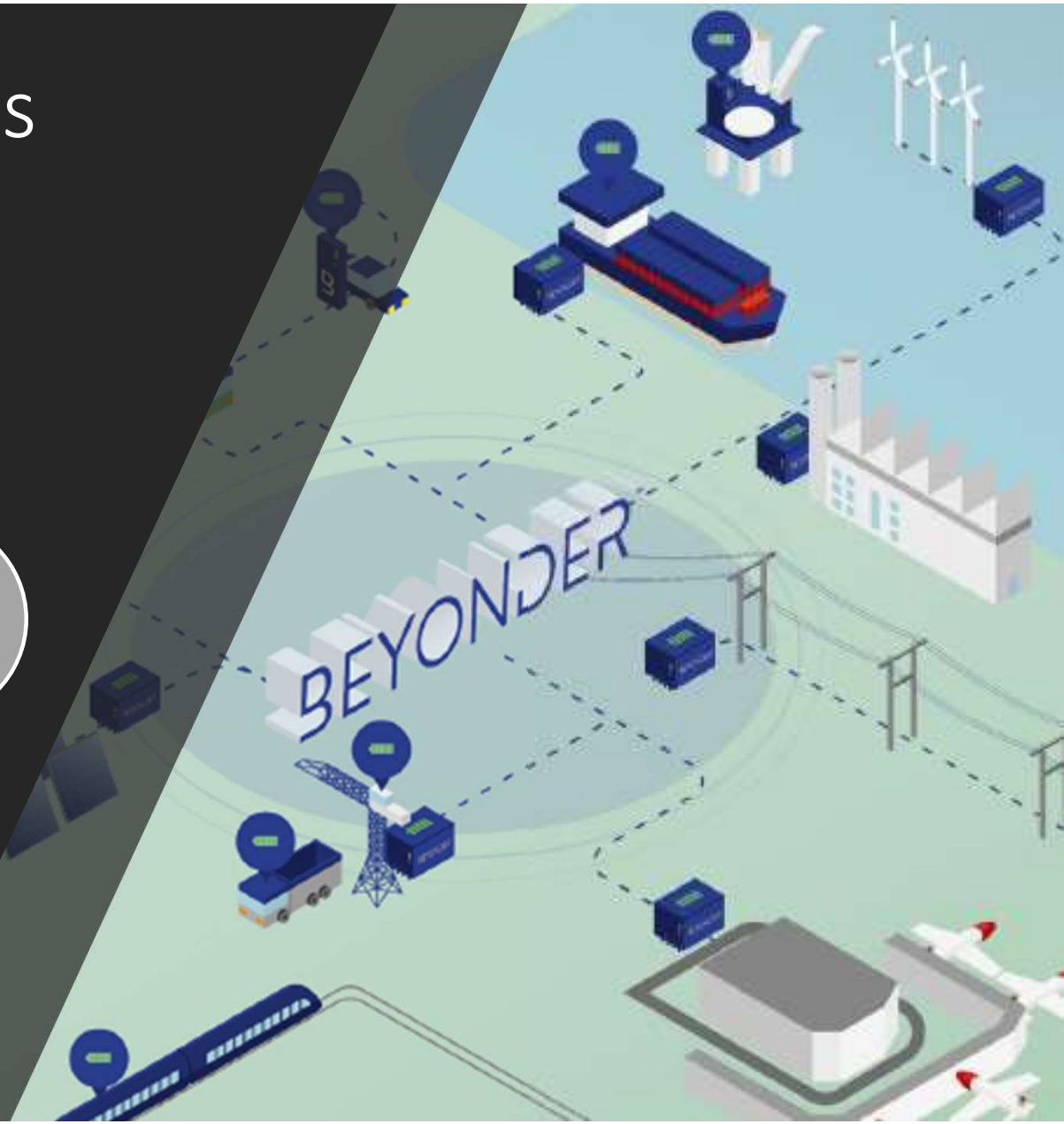
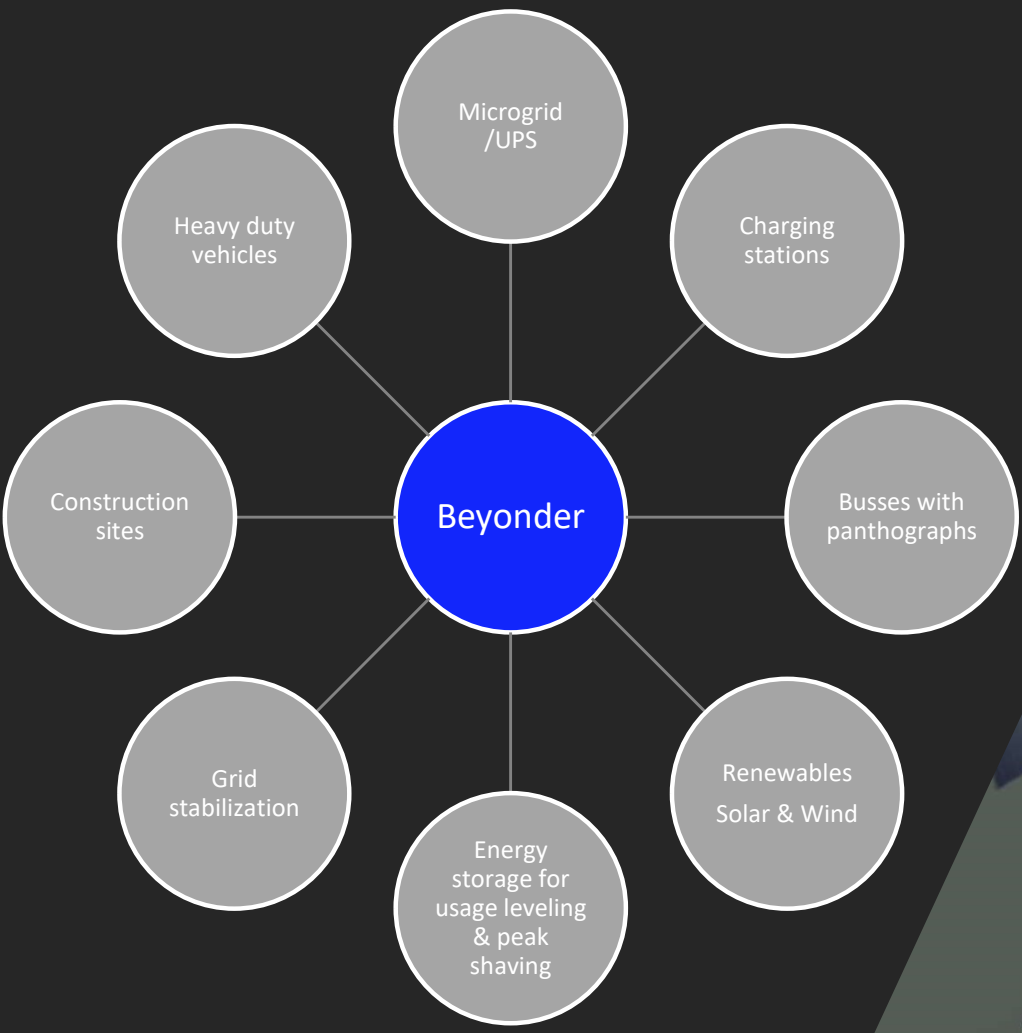
Beyonder will target **Battery Pack Producers**. However, until Beyonder becomes an established supplier of cells with strong market traction and recognition, the strategy will also consist in targeting **End-Users** to promote the uniqueness and advantages of our technology.





# MARKET POSSIBILITIES & CONCEPTS

# Primary market segments



# Beyond technology benefits



Continuous operation  
24/7



Spreads the load on  
existing grid system



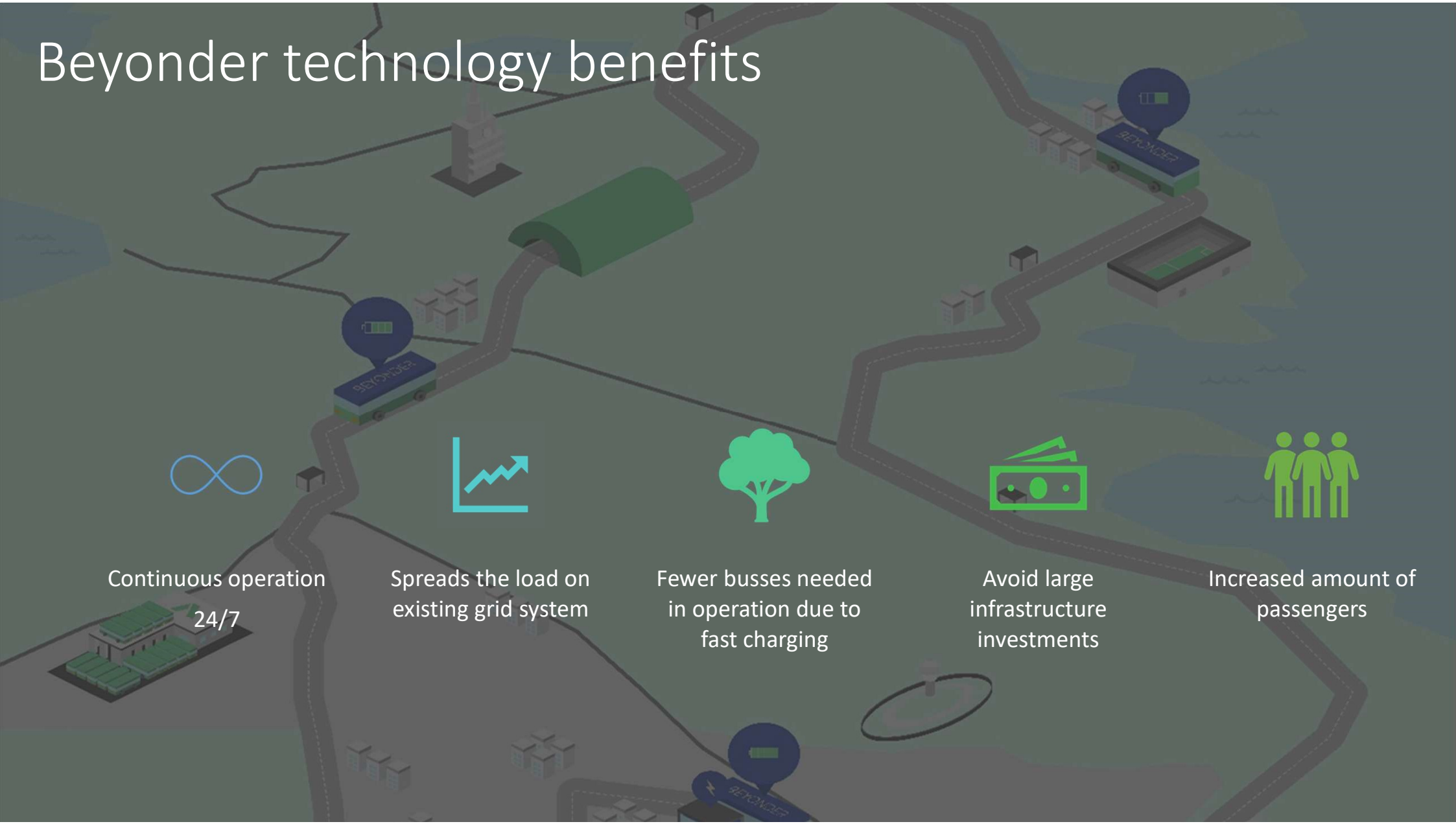
Fewer busses needed  
in operation due to  
fast charging



Avoid large  
infrastructure  
investments



Increased amount of  
passengers





# Renewables





Solar and wind production is weather dependent and have high & rapid fluctuations that cause large problems for grid

To be able to use most of this energy a system that can stabilize and smoothen these fluctuation is required

High Power batteries are ideal for these application, where high power peaks can be stabilized before pushed out to the grid



Mega charger  
at harbors

# Beyond technology benefits



Can be part of shore power systems or standalone



Avoid large infrastructure investments



Fast charging (2-5 mins)



Increased lifetime



Lower investment costs



# UPS for process industry



UPS backup with high power



Reduced online generators



Reduced emissions



Avoid large infrastructure investments



Avoid voltage dip or voltage changes



# Scale-up Plan

## Product House



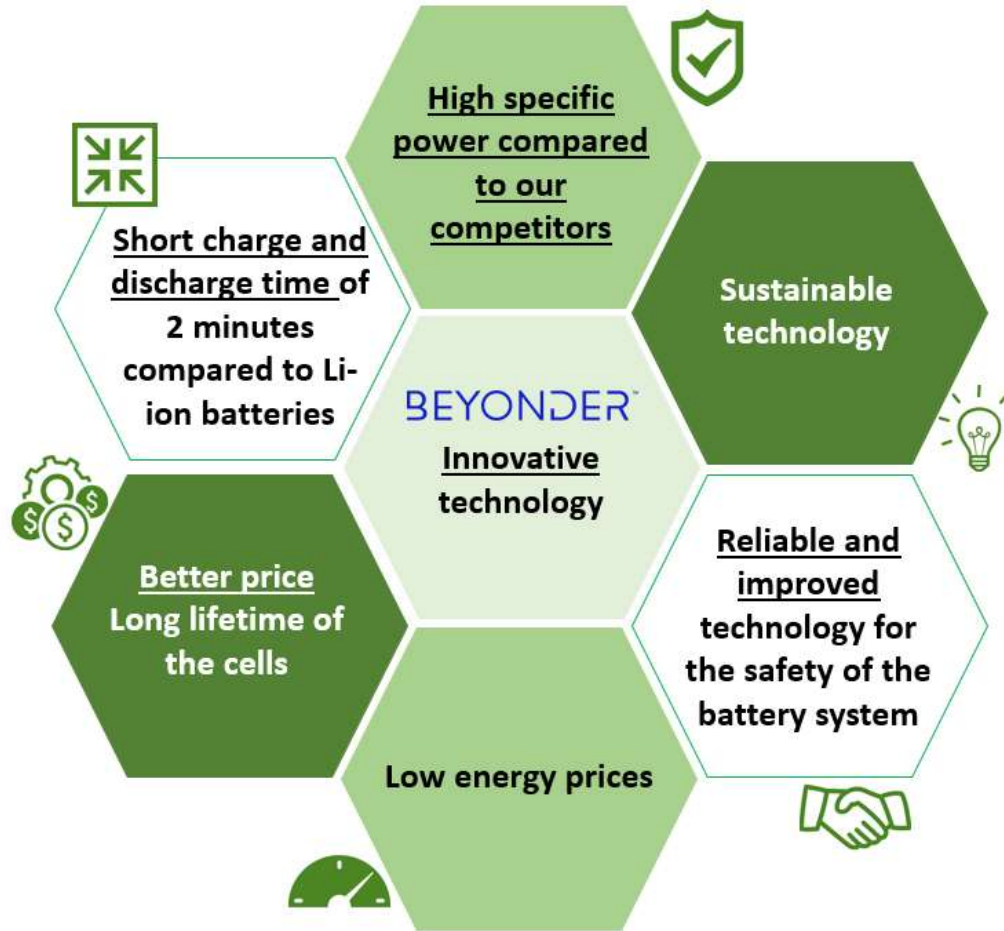
- Development
- Pilot production
- Licensor

## Large Scale Production



- Licensee

# Value Propositions





An aerial photograph of a dense, lush green forest of coniferous trees. The trees are packed closely together, creating a textured, vibrant green canopy. The lighting is bright, suggesting a sunny day, with some areas of the forest appearing slightly more illuminated than others. The overall scene is serene and natural.

Let's collaborate and do it right!

[www.beyond.no](http://www.beyond.no)

BEYONDER™