



**Lignode<sup>®</sup>**  
by Stora Enso

**Sustainable, locally sourced  
anode material from trees**

Otto Kivi  
Gothenburg, 28th September 2023

THE RENEWABLE MATERIALS COMPANY





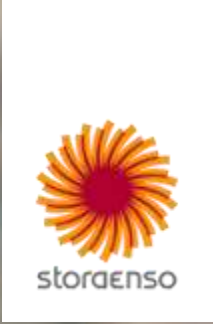
storaenso

# Transforming from fossil-based materials to renewable solutions

THE RENEWABLE MATERIALS COMPANY



# Climate crisis became real





# Replacing fossil-based and other non-renewable materials



Trees, our raw  
material, grow  
back



Recycling is good  
– but it's not  
enough



Renewable materials  
help combat global  
warming



Join us on our  
journey to replace  
plastics



# Forests have a key role in combatting climate change – carbon is stored in trees and wood-based products



storaenso

**100%**

of our wood comes  
from sustainable  
sources

**80%**

of our wood  
is certified

**99%**

of lands owned and  
managed by us  
are covered by  
certification





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**Innovating with  
renewable materials**





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Photo: Modvion



# Lignin makes up 1/3 of a tree with a world of possibilities



Cellulose 1/3

Lignin 1/3

Hemicellulose 1/3



Fiber-based products



Biomaterials production site



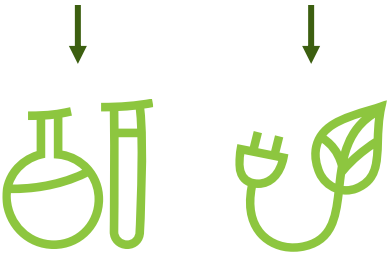
Lignin



Refining process



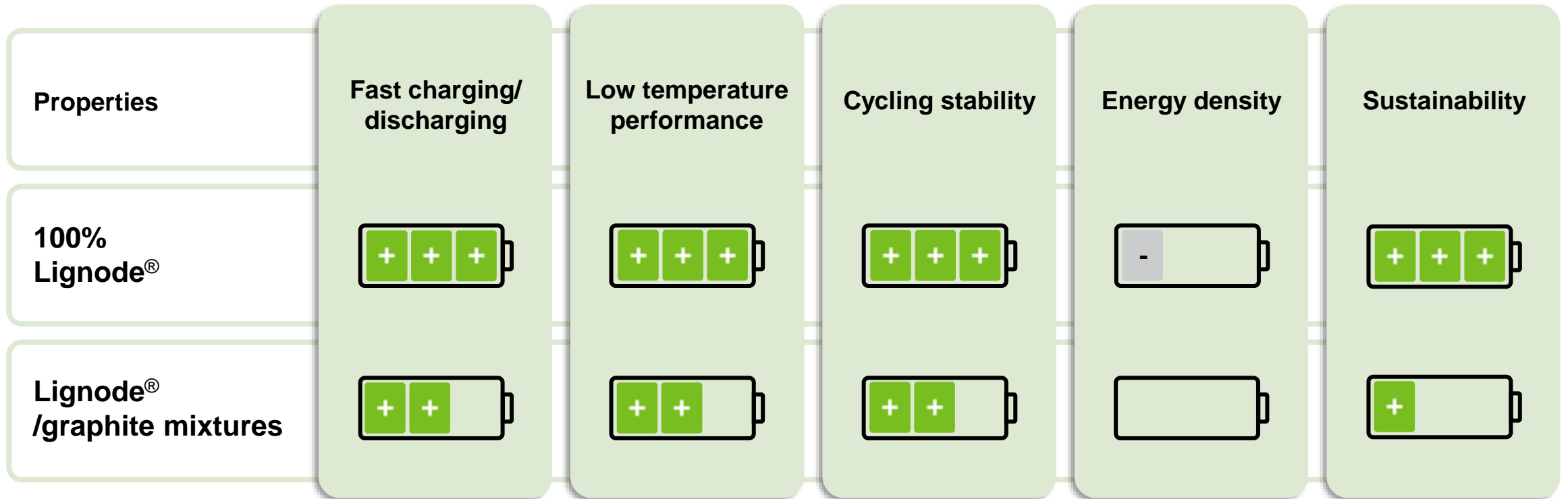
Lignode®



Biochemicals Green energy



# High performance and fast charging





# We continue the journey together with customers and partners



**northvolt**  
BEYONDER™  
Polestar

*\*pending Stora Enso's investment decision*





# High performance and fast charging

An icon representing sustainability, showing a green leaf and a green plug connected by a line.

**Sustainable**

An icon representing local sourcing and production, showing a green sprout and a green tree.

**Locally sourced  
and produced**

An icon representing high performance, showing a green bar chart with an upward-pointing arrow.

**High performance**





**Everything that is made from  
non-renewable materials today,  
can be made from trees tomorrow.**



THE RENEWABLE MATERIALS COMPANY





# Lignode<sup>®</sup>

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