



GreenIndustrialAreas



17.12.2025.

Seminārs
***“Uzņēmējdarbības infrastruktūras
attīstība pārejai uz klimatneitrālu
ekonomiku”***

Interreg
Baltic Sea Region



Co-funded by
the European Union



ENERGY TRANSITION

GreenIndustrialAreas



Viedās administrācijas un
reģionālās attīstības
ministrija

Kalundborg Symbiosis

Surplus from circular production



Kalundborg
SYMBIOSIS

Mission & Vision



Renew

Strengthening
the partnership



Connect

Full resource
utilization



Promote

Sharing the
symbiotic mindset

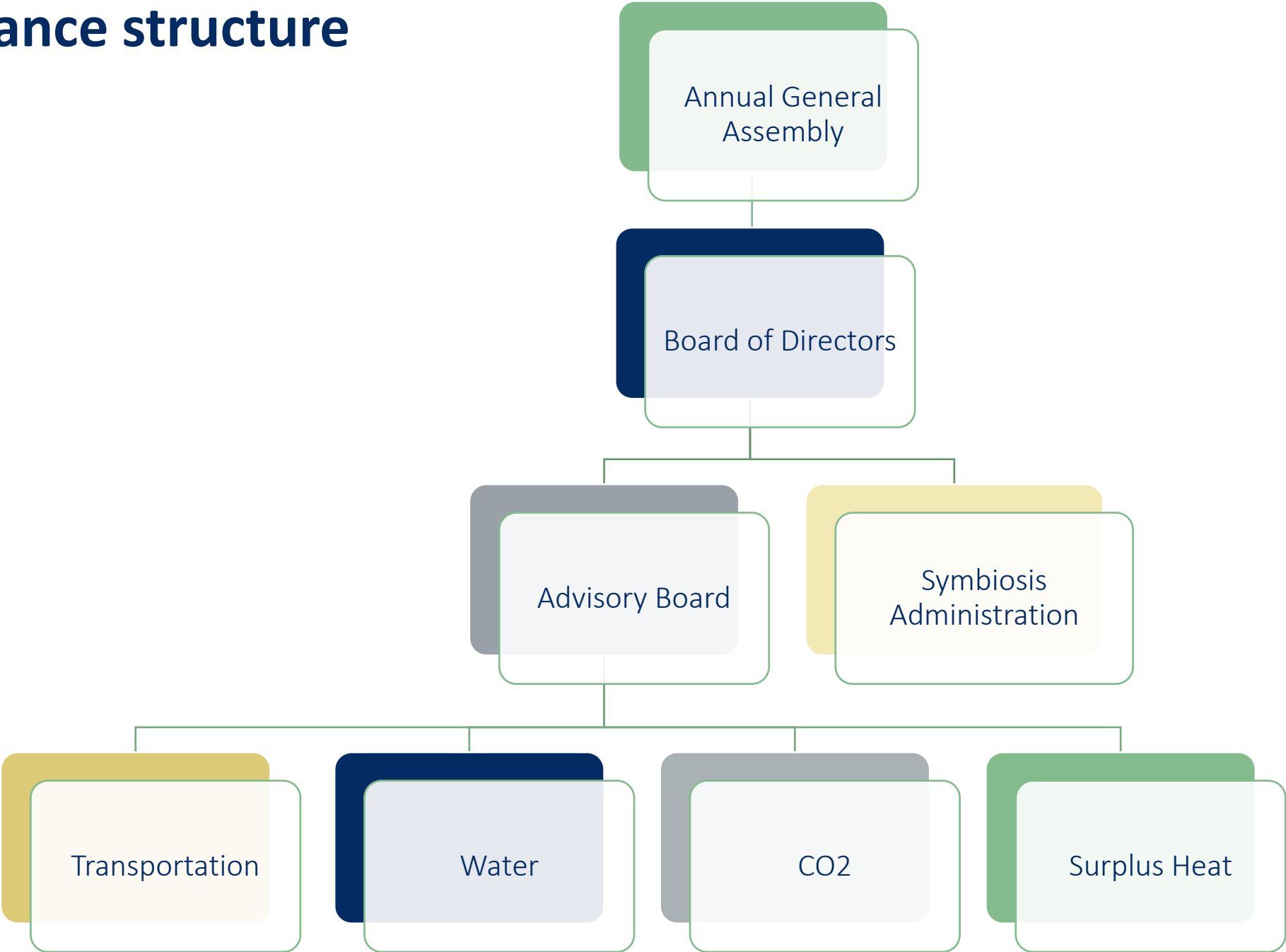


The worlds leading
industrial symbiosis with
a circular approach to
production



Kalundborg Symbiosis
creates sustainable
development in our
companies through joint
projects

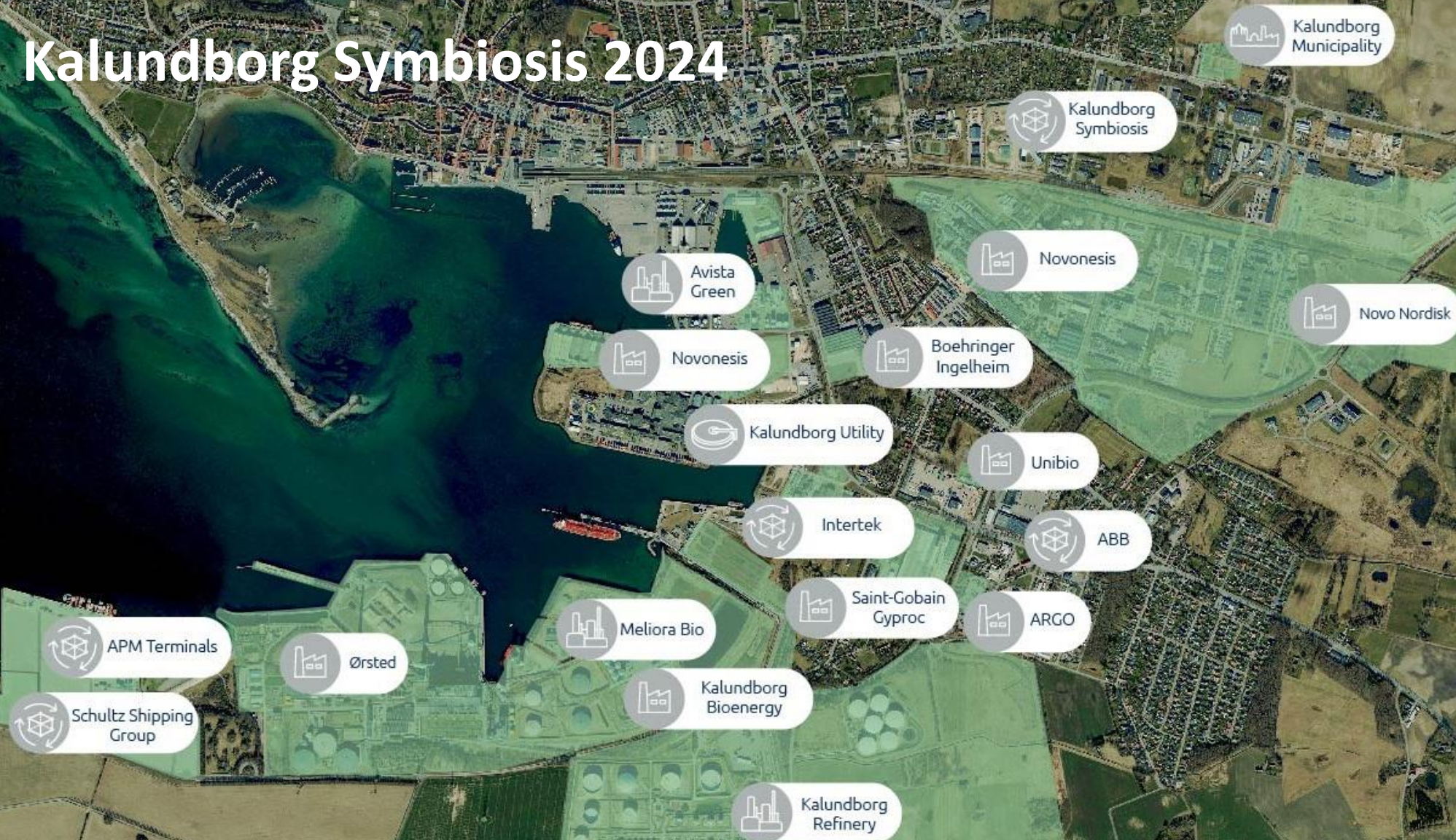
Governance structure



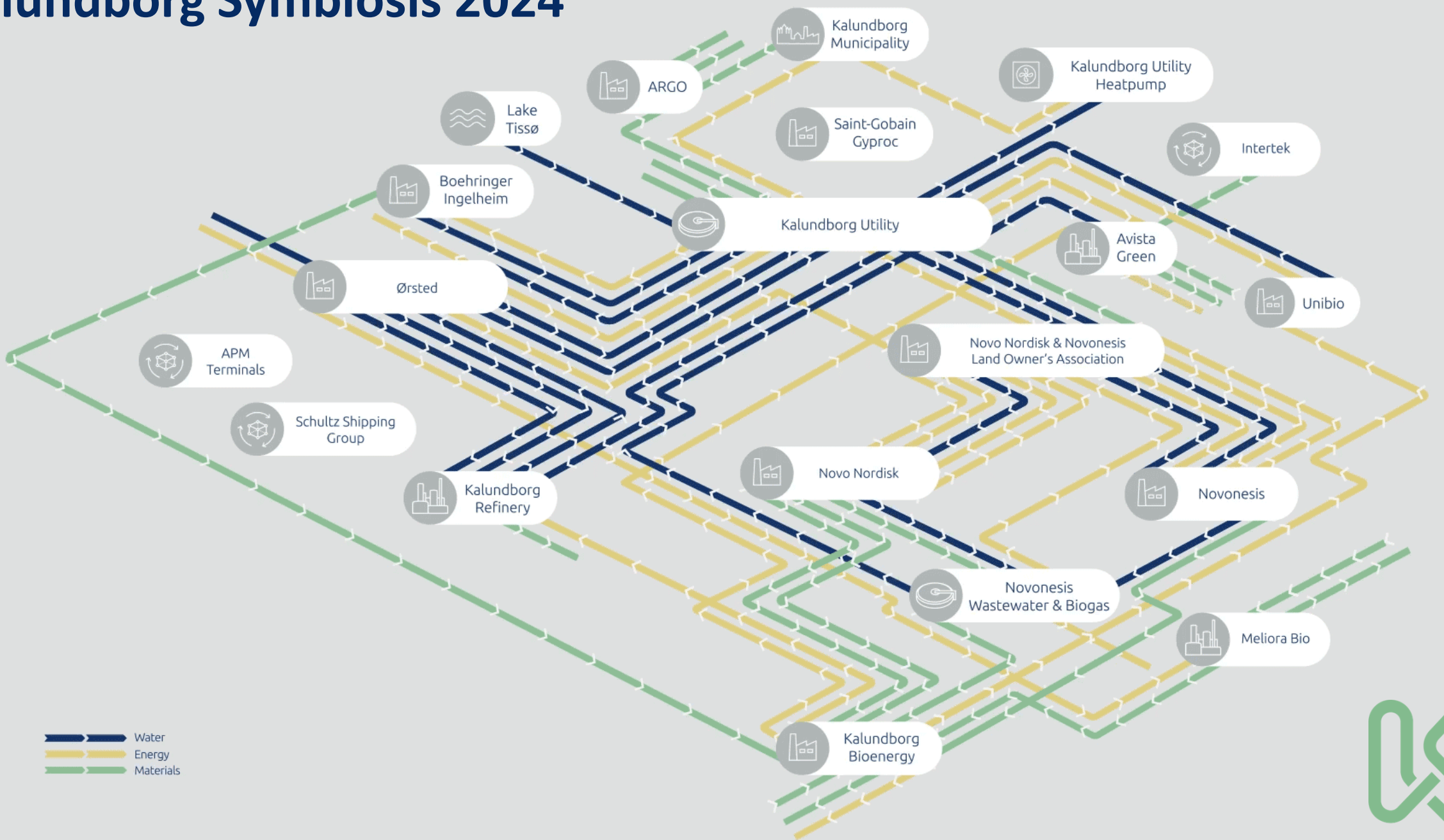
Kalundborg Symbiosis 2025



Kalundborg Symbiosis 2024

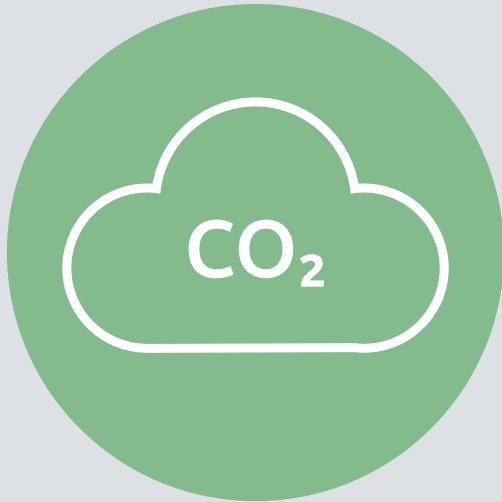


Kalundborg Symbiosis 2024





Annual savings since 2015



586,000 tons CO₂

The local energy production is
now CO₂ neutral



4 million m³

of groundwater



62,000 tons

of residual materials
recycled



Examples of local growth



€10 bn
investment

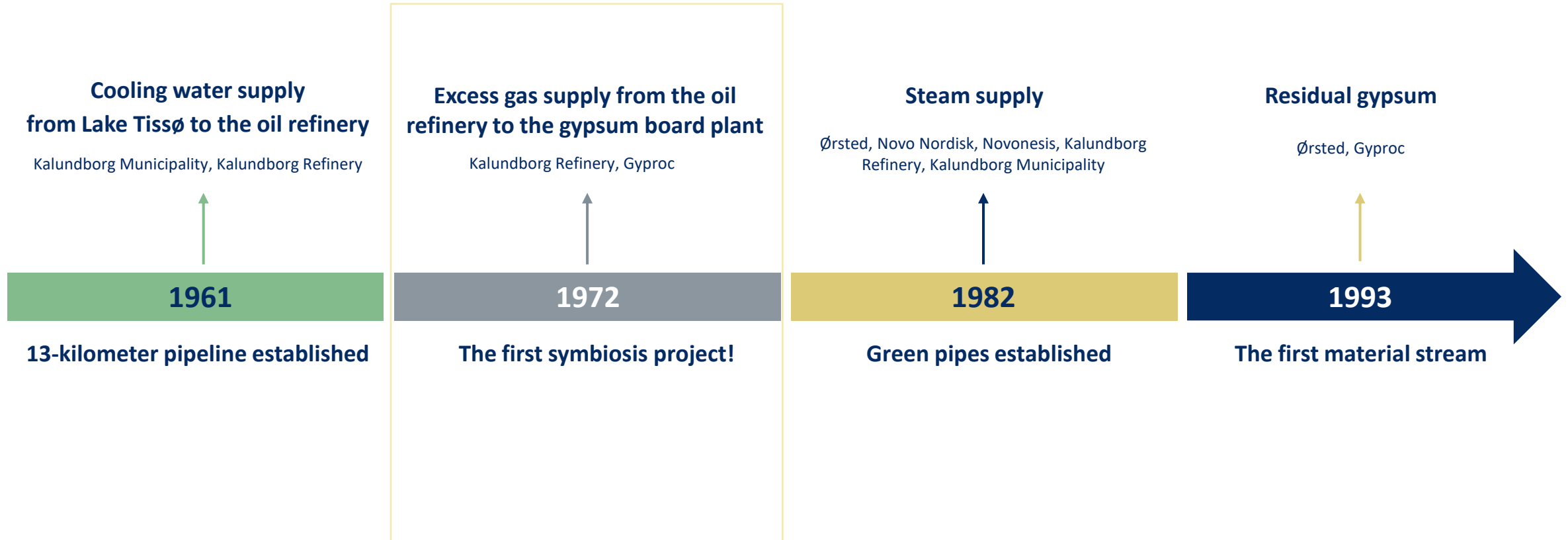


The investments
create
1,300+ new,
permanent jobs



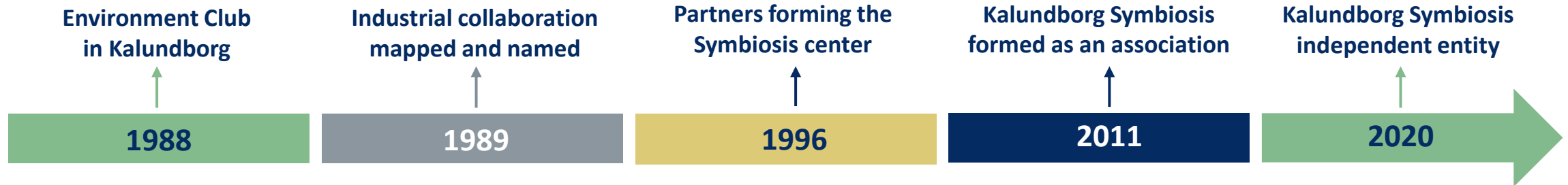
12 new educational
programs
in Kalundborg

How it all started

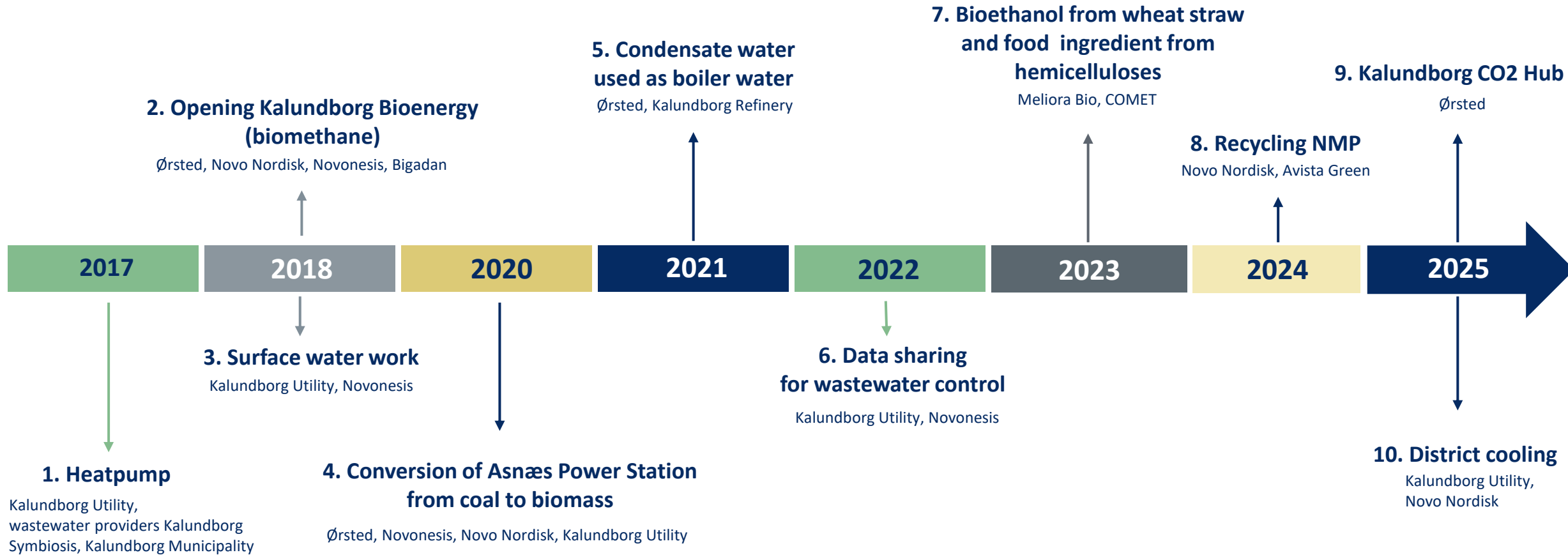




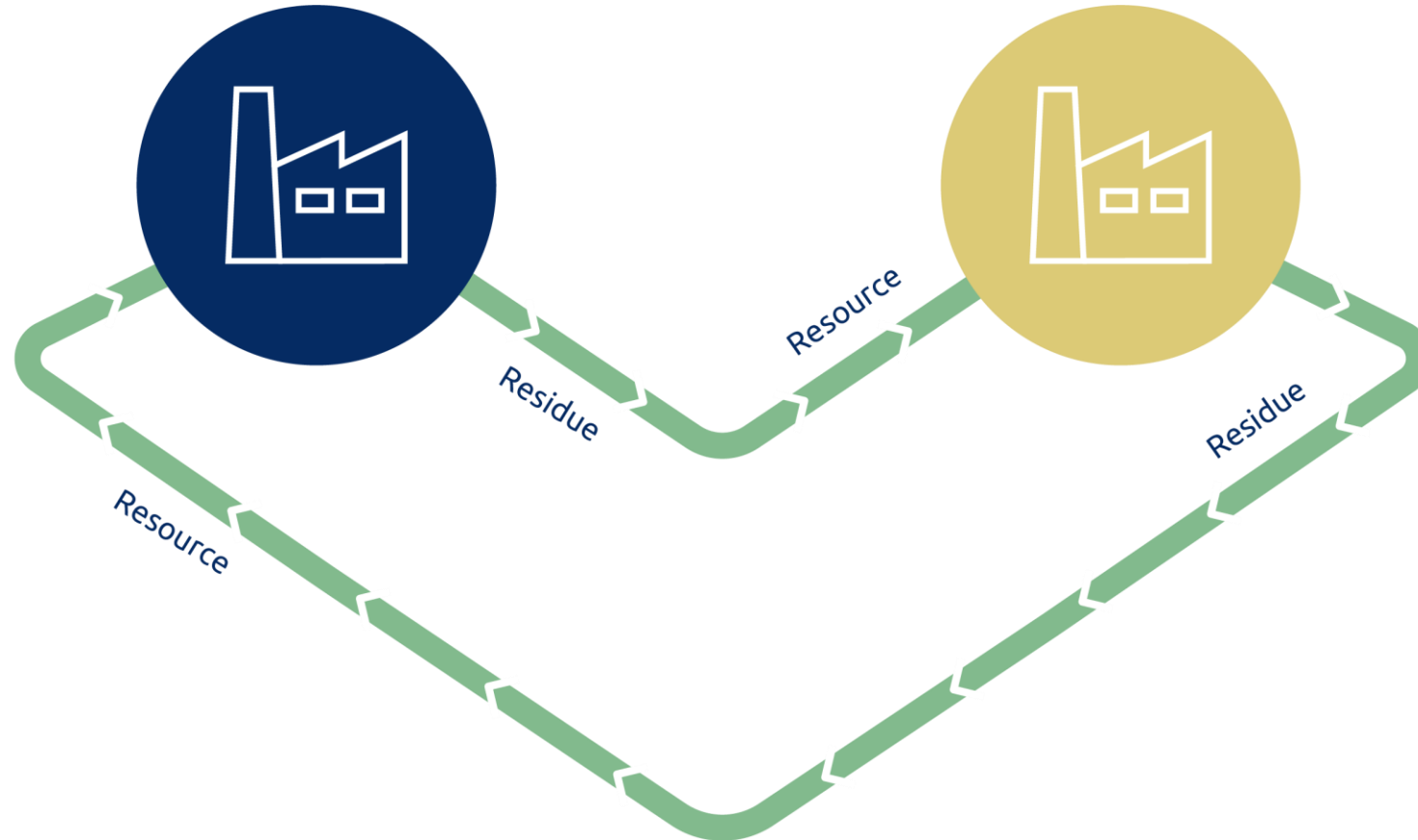
Organizational evolution



10 new streams by 2025



Industrial Symbiosis



The process of creating an industrial symbiosis



Mapping

When establishing a new industrial symbiosis, potential members and partners first need to be identified and mapped



Screening

The screening identifies both the technical development potential of a company and its motivation and readiness to enter a symbiosis partnership



Matchmaking

Successful symbiosis depends on trust, communication, and collaboration between companies, making initial facilitation crucial.



Business case

A symbiosis should be assessed like any investment, with a business case covering technical steps, legal aspects, and benefits for energy security, sales, and marketing.




Anchoring

Anchoring a symbiosis requires solid agreements and, for larger networks, planning and organization around a shared vision.

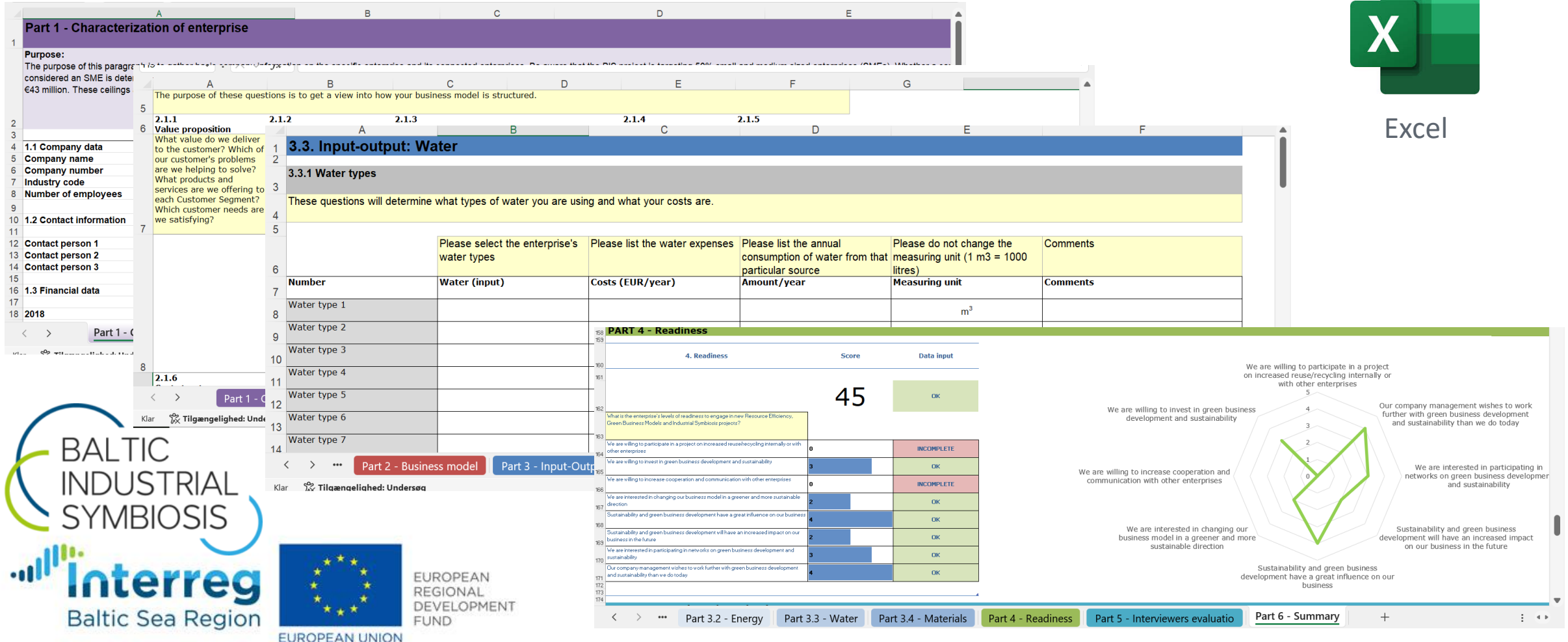
Screening Tool for Symbiosis Partnerships – Version 1



The dialogue-based screening tool assesses both a company's technical development potential and its motivation and readiness to engage in a symbiosis partnership. It was developed within the framework of the Interreg BSR project BIS.




Excel




Number	Water (input)	Costs (EUR/year)	Amount/year	Measuring unit	Comments
Water type 1				m ³	
Water type 2					
Water type 3					
Water type 4					
Water type 5					
Water type 6					
Water type 7					


4. Readiness	Score	Data input
	45	OK

What is the enterprise's level of readiness to engage in new Resource Efficiency, Green Business Models and Industrial Symbiosis projects?	Score	Status
We are willing to participate in a project on increased reuse/recycling internally or with other enterprises	0	INCOMPLETE
We are willing to invest in green business development and sustainability	3	OK
We are willing to increase cooperation and communication with other enterprises	0	INCOMPLETE
We are interested in changing our business model in a greener and more sustainable direction	2	OK
Sustainability and green business development have a great influence on our business	4	OK
Sustainability and green business development will have an increased impact on our business in the future	2	OK
We are interested in participating in networks on green business development and sustainability	3	OK
Our company management wishes to work further with green business development and sustainability than we do today	4	OK







BALTIC INDUSTRIAL SYMBIOSIS



Interreg Baltic Sea Region



EUROPEAN UNION



EUROPEAN REGIONAL DEVELOPMENT FUND

Digital screening tool for Symbiosis Partnerships – Version 2



Motivation (VPI Index)

Discover what drives your company to participate in a symbiosis partnership.
Please rate the importance of the following factors for your company.

14. QuestionValue Propositions Index (VPI) *

Very HighHighMediumLowVery LowCannot Answer

Secure existing jobs

Create new jobs

Strengthen resilience community

Secure and develop infrastructure

Attract strategic invest

WATER Input

Please specify the types of water entering your production facility.

15. Commercial water, Input

☐ Potable water from natural sources

16. Other types of

Skriv dit svar

17. Shared water,

☐ Process water

☐ Surplus water

☐ Wastewater

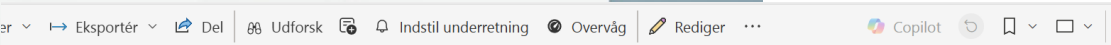


Forms

&



Power BI



Kalundborg Utility

AboutMotivation VPI indexResource flowsInternal EvaluationOpportunitiesReadiness

Question

7 Our company management wishes to work further with green business development and sustainability than we do today

5 Sustainability and green business development have a great influence on our business

6 Sustainability and green business development will have an increased impact on our business in the future

4 We are interested in changing our business model in a greener and more sustainable direction

0 ★ We are interested in participating in networks on green business development and sustainability

3 We are willing to increase cooperation and communication with other enterprises

2 We are willing to invest in green business development and sustainability

1 We are willing to participate in a project on increased reuse/recycling internally or with other enterprises

★ Area with maximum scoring in readiness

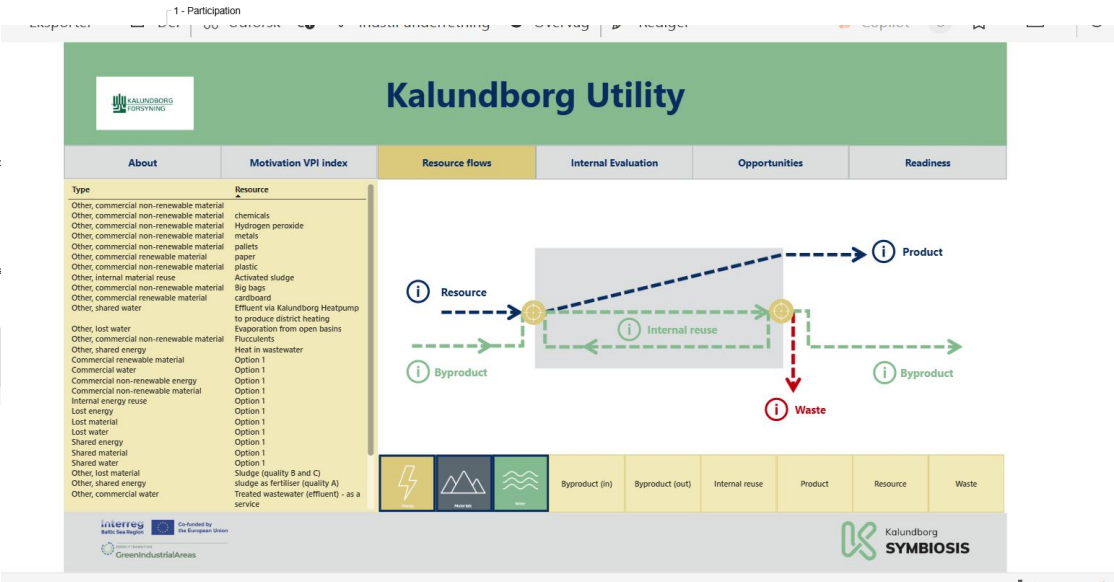
7 - Motivatic

6 - Future s

interreg Baltic Sea Region

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Digital screening tool - Report distribution

Forms link is sent out to intended respondents

Organisation	Site name	Industry/branch	Timestamp

Responses with timestamps are stored in the SharePoint/ excel database



After report refresh the responses can be selected in the BI front-end and presented



The report can be exported to PDF format and forwarded to respondents

Kalundborg Symbiosis

Surplus from circular production



Nadejda Ulstrup-Hansen
Project and Communications Manager
nadh@kalundborg.dk