

STENA RECYCLING GROUP - HOW WE SUPPORT THE TRANSITION TO A CIRCULAR ECONOMY

NORSIK, OSLO, 2023-05-24

Victor Rondahl – Business Area Sales Manager

Jari Saari – Business Area Specialist

Leif Karlsson – Site Manager, Lanna

It starts here.

A HISTORY OF TRUE ENTREPRENEURIAL SPIRIT



It starts here.

THE STENA SPHERE



56,889

TOTAL REVENUE,
MSEK



ACTIVITIES
ALL OVER
THE WORLD



141

VESSELS INCLUDING
NEWBUILDINGS



201

WIND TURBINES



29,700

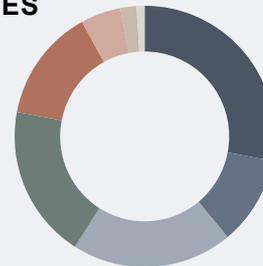
RESIDENTIAL AND
COMMERCIAL UNITS



6,000,000

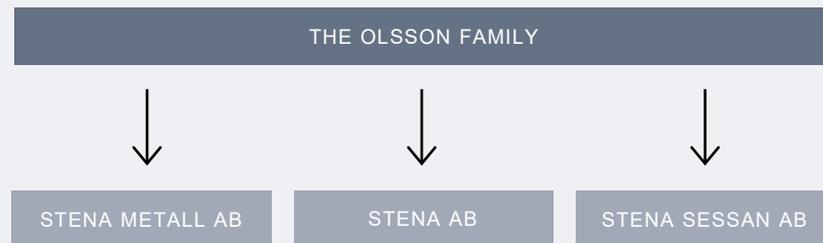
TONNES
WASTE RECYCLED

19 000 EMPLOYEES



- Ferry operations, 28%
- Stena shipping, 11%
- External shipping, 20%
- Stena Metall, 19%
- Adactum, 14%
- Offshore drilling, 5%
- Real estate, 2%
- Finance, 1%

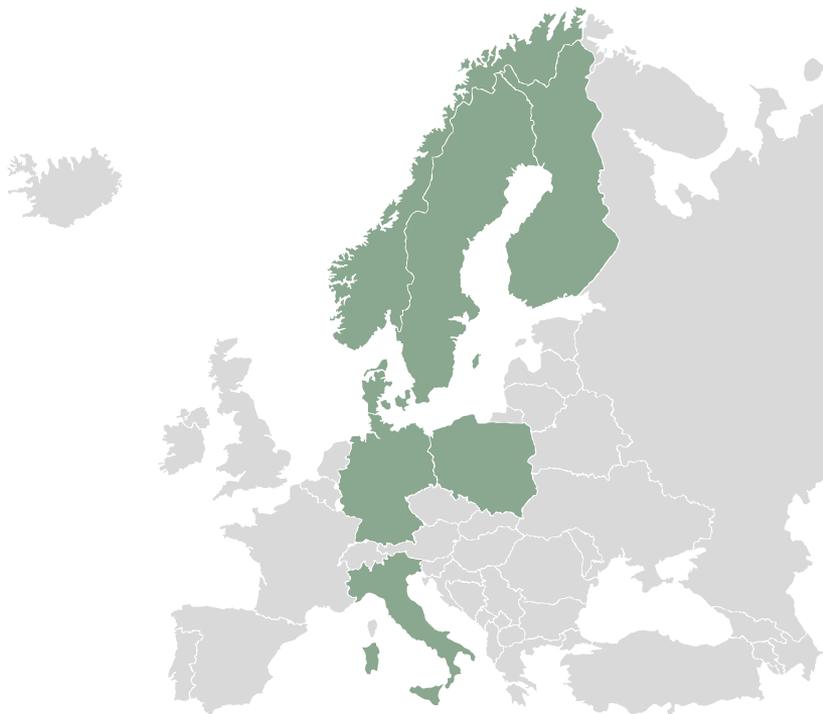
OWNERSHIP STRUCTURE



It starts here.

STENA RECYCLING OPERATES AROUND THE NORDICS AND NORTHERN EUROPE

STENA RECYCLING



200 Location in seven countries



3600 Employees



28 000 Net sales (SEK millions)



6 million tones of recycled waste



It starts here.

SIGNIFICANT GROWTH OUTLOOK FOR EUROPEAN PLASTICS RECYCLING

5

SEVERAL STUDIES AND SURVEYS CLEARLY POINT TO THE FACT THAT PLASTIC WASTE IS EXPECTED TO INCREASE SIGNIFICANTLY IN THE COMING YEARS. A TRIPLE BY 2060. THE SCENARIOS SHOW THAT WE NEED TO WORK WITH BOTH INCREASED MATERIAL RECYCLING AND REDUCED AND MORE RESOURCE EFFICIENT USE.

Key drivers for increased recycling:

- Regulatory development; EU plastic strategy 2030, New Waste Shipment regulations (Basel), evolving producer responsibility (Packaging, ELV, WEEE)
- Export restrictions, i.e China and S.E Asia (National Sword)
- Brand owners marketing use of recycled materials, and increasing demand for circular projects along with companies' sustainability agendas.
- 10 MLN tonnes of recyclate produced in EU by 2025

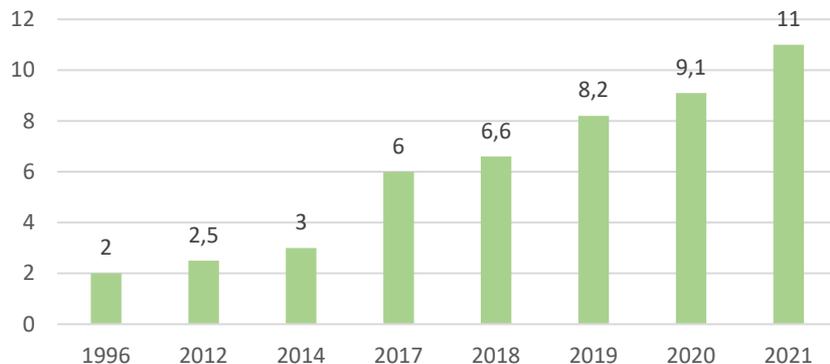
(Circular Plastics Alliance)

It starts here.

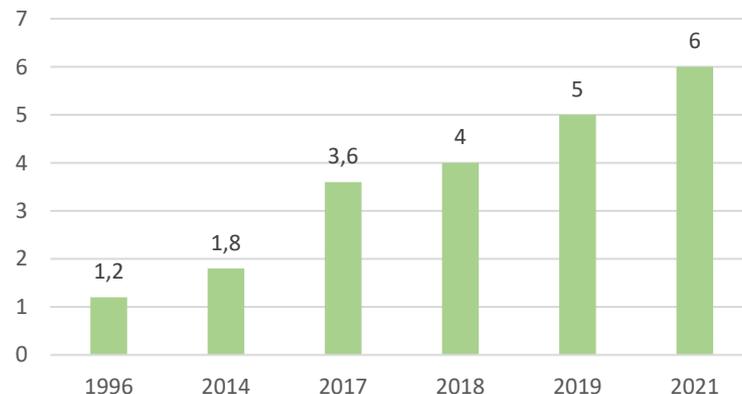


50 MLN TONNES OF PLASTICS USED IN THE EU → 30 % IS COLLECTED FOR RECYCLING → AROUND 10 % IS BEING RECYCLED...

INSTALLED CAPACITY FOR RECYCLING IN EU
(MT)



RECYCLATES PRODUCTION IN EU
(MT)

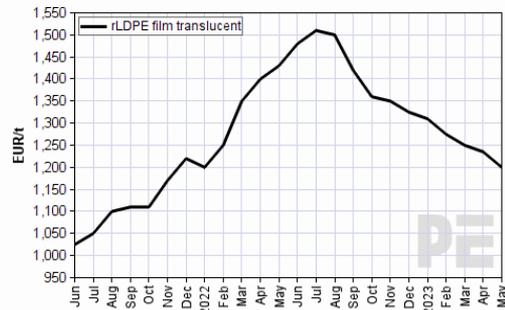


Germany, Spain, Italy, the United Kingdom, and France have the biggest installed capacities, representing 67% of the market. Meanwhile, notable growth is being witnessed in Poland and the Netherlands.

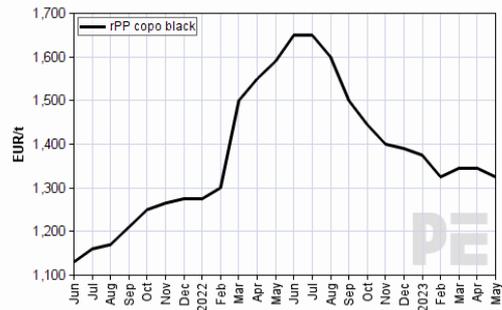
It starts here.

MARKET UPDATE

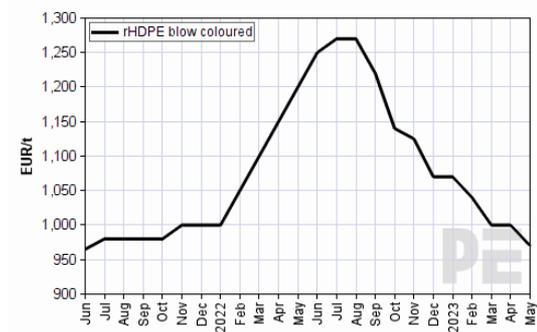
PIE Polymer Prices



PIE Polymer Prices



PIE Polymer Prices



- Low priced virgin, mainly from Far East, competing with recyclates
 - Low economy and weak sales in main markets of automotive, furniture, packaging's and construction
 - High cost for electricity and labor
 - Increasing inflation
- Green transition has lost its momentum

It starts here.

STENA RECYCLING GROUP'S PLASTICS RECYCLING | HOW WE SUPPORT THE TRANSITION TO A CIRCULAR ECONOMY



5 PRODUCTION SITES
IN THREE DIFFERENT MARKETS



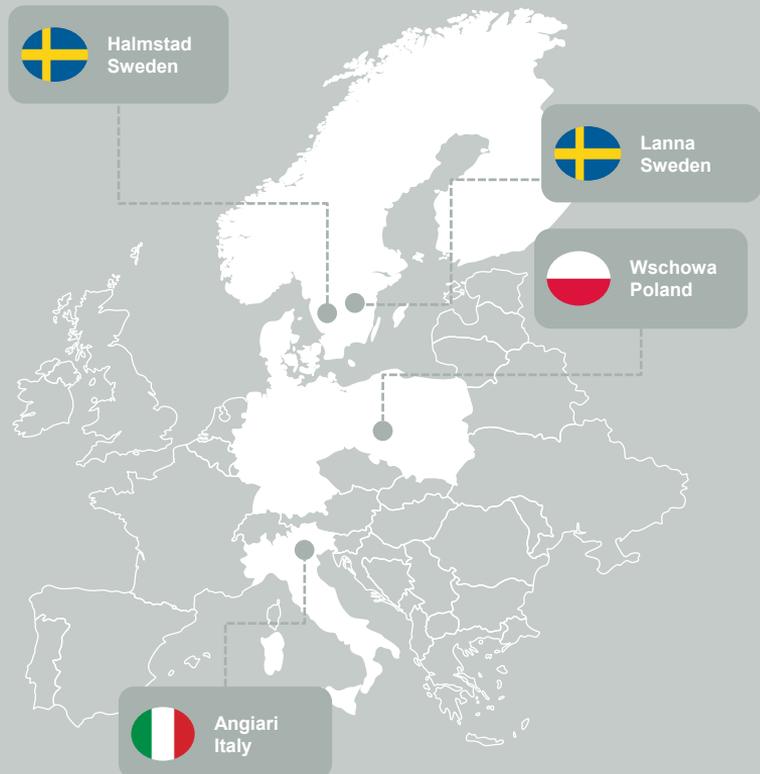
140 000 TONS
OF RECYCLED & TRADED MATERIAL



60 000 TON
OF INSTALLED RECYCLING CAPACITY

OVERALL BUSINESS INFORMATION

- We are managing a huge variety of plastic waste from industry and households every day. This requires a lot of knowledge and experience. At Stena we make sure that plastics are recycled in a safe and sound manner by ourselves or with partners around in Europe.
 - At our facilities in Halmstad, Wschowa and Angiari we process LDPE waste and WEEE (Electronics) into high-quality recycled raw materials. In these facilities we have advanced sorting and subsequent production of LDPE/LLDPE, ABS, PS pellets sold to market.
 - At our facility in Lanna (Bredaryd) we mainly process mixed rigids from industry, households and municipalities.
 - On top of traditional recycling operations, we are also developing partnerships in the field of chemical recycling in order to manage the fractions that are not suitable for material recycling.
- *Stena Recycling's strategy regarding plastics is very clear – we will take further steps to become a market leader within plastics recycling in order to support our customers in their circular ambitions.*

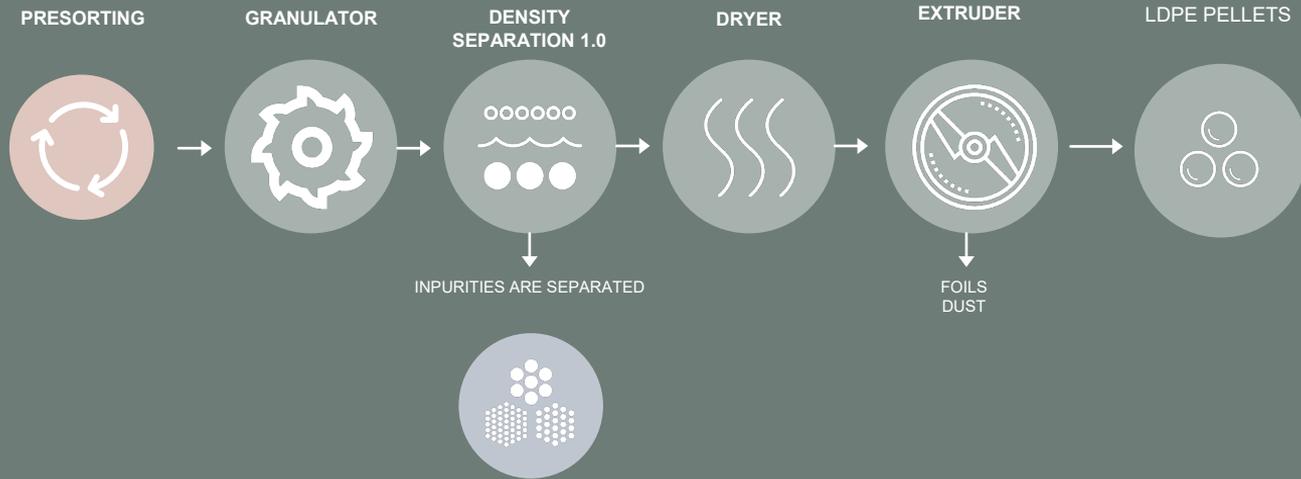


WEEE-RECYCLING LINE



It starts here.

LDPE RECYCLING LINE



It starts here.

STRATEGIC DIRECTION | The acquisition of Swerec is an important step in achieving our goal of becoming a European leader in plastics recycling and a circular sustainability partner

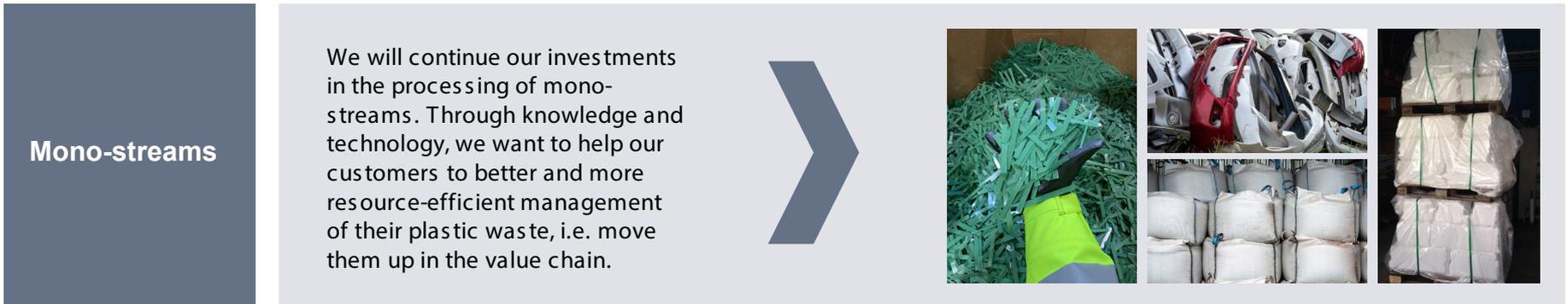
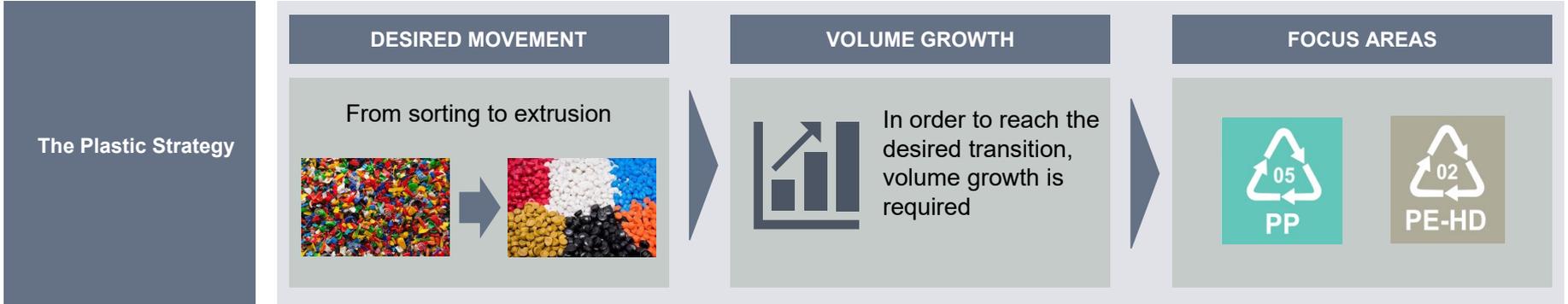
Stena Recycling, Lanna



- ✓ Fully functioning sorting facility
- ✓ Permission
- ✓ Area
- ✓ Competence
- ✓ Strategic location

It starts here.

FOCUS DURING 22/23 | To take these steps forward, we need to increase the volume of plastics and invest in new recycling capacity.



It starts here.

1 Pålastning löst, lastoptimerat eller balat ÄVC-material



2 Kvarn för storleksreduering



3 Magnet för avskiljning av järn



4 Flip-flow för avskiljning av fines och överstort



FÖRÄDLING TILL NY RÅVARA

12 Big-bag-station för utgående material



13 Labb för kvalitetssäkring



11 Polymersortering



10 Granulator (flakes) för PP och PE



9 Centrifug för torkning av material



5

Eddy Current Separator (ECS) för avskiljning av icke magnetiska metaller

6

Zig-Zag för avskiljning av folie och lättmaterial (luftström)

7

Friktionstvätt som löser upp och tar bort grov smuts och säkerställt att materialet betar sig rätt i sink and float

8

Sink and float separation av lätta (PP och PE) och tunga plaster (ABS, PS, PVC, PC, etc...)



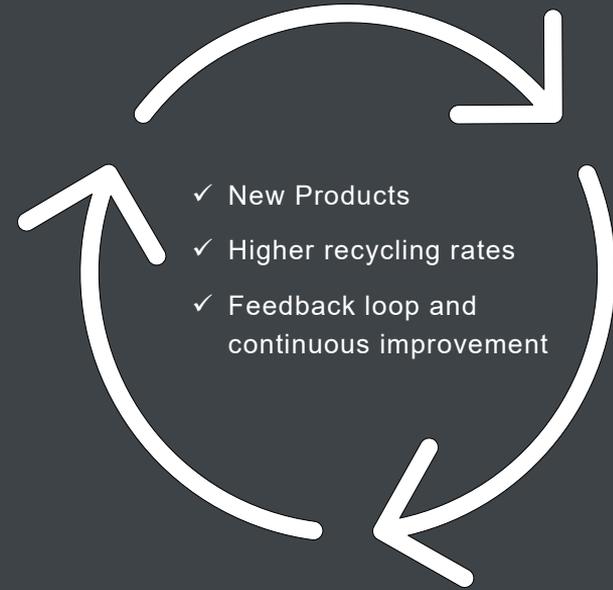
Vattenrening (slutet system)

KEY IN OUR BUSINESS: OVERALL RESPONSIBILITY AND CONTINUOUS IMPROVEMENT

Stena's contribution to the circular economy

- Large-scale industrial recycling solutions
- Efficient logistics solutions with high fill rates throughout the transport chain
- Use our collective experience and expertise to implement the best technology
- Collaborations with more than 100,000 customers in seven countries.
- Supplier of high-quality and quality-assured raw material.

"We are the bridge in the circular economy"



IT'S WORKING TOGETHER WITH OUR CUSTOMERS THAT MAKES IT POSSIBLE – FROM DESIGNING THE PRODUCTS THAT LATER BECOME WASTE AND EVENTUALLY GET RE-BORN AS NEW PRODUCTS.

KRISTOFER SUNDSGÅRD, CEO STENA RECYCLING GROUP



It starts here.

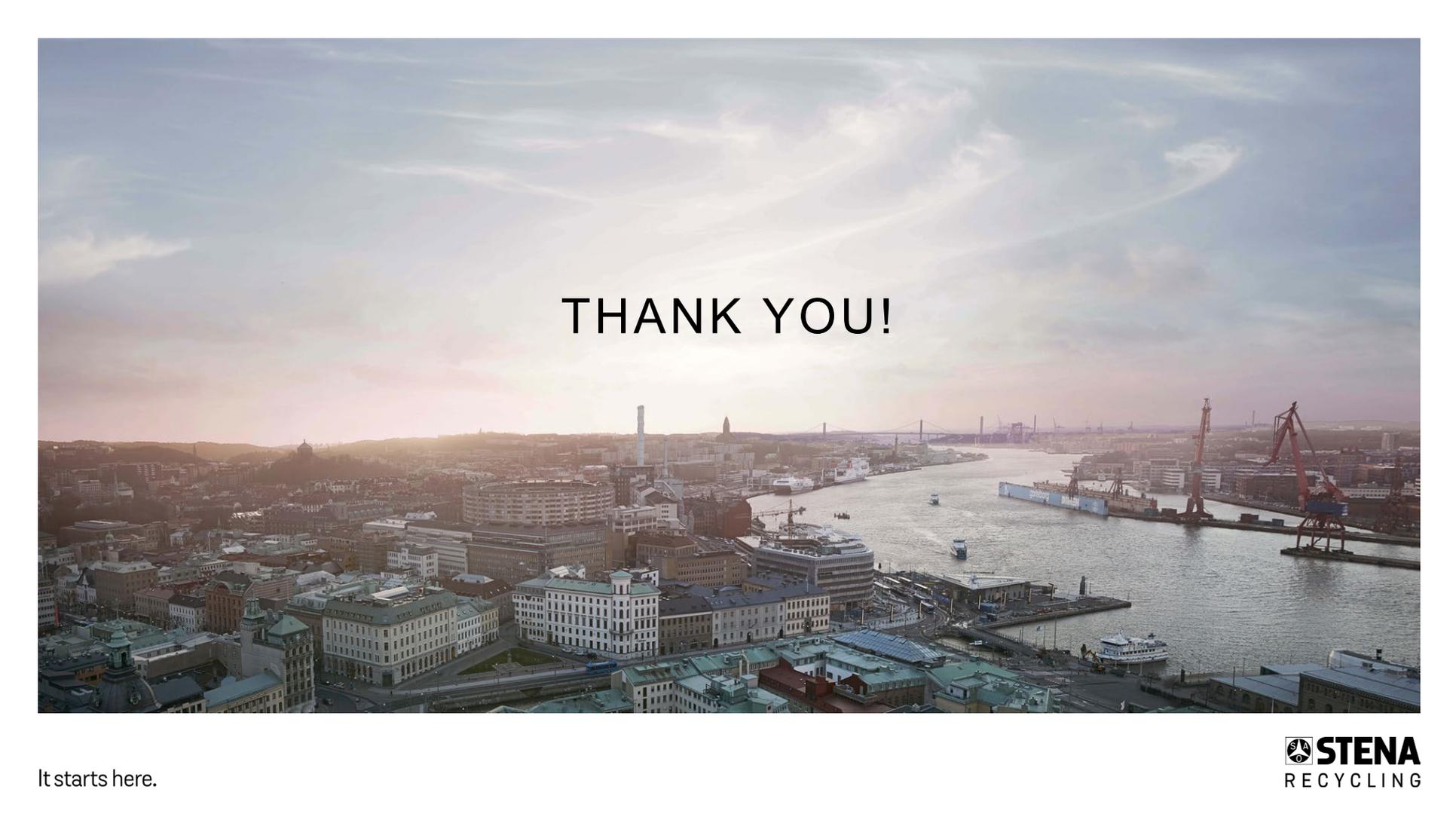


WE ARE OPERATING IN A WIDE NETWORK – ENABLING US TO MONITOR MATERIAL AND MARKET TRENDS, LEGAL CHANGES AND TECHNICAL DEVELOPMENTS.



It starts here.



An aerial photograph of a city harbor at sunset. The sky is filled with soft, wispy clouds in shades of blue, purple, and orange. The city buildings are visible in the foreground and middle ground, with a prominent white building with a green roof. The harbor is filled with water, and several large ships and cranes are visible on the right side. The text "THANK YOU!" is centered in the upper half of the image.

THANK YOU!

It starts here.

 **STENA**
RECYCLING