

Tree of life

Creating a sustainable future
with pine chemicals



BIOBASED SOLUTIONS 



LEADING TALL OIL REFINER

- We are the world's leading Tall Oil refiner with an unsurpassed global sourcing position and advanced technology
- Our raw material is from renewable resources and a real alternative to petrochemical products
- Our manufacturing processes have been granted various environmental certificates
- We help our customers go green by supplying them sustainable raw material





OUR VISION AND MISSION

- Our vision is to be the leading, most innovative provider of natural pine-based chemicals, which enable our customers to make the world healthier, cleaner, brighter, safer and more efficient.
- Our mission is to optimize the forest products value chain by transforming pine chemicals from pulp and paper into high value end products.





LEADING PRODUCER OF PINE CHEMICALS

- The largest producer of pine chemicals
 - ✓ Greatest Crude Tall Oil distillation capacity in the world, 800 000 tons/year, 50% of total capacity
 - ✓ Largest integrated producer of resins from pine chemicals
- World class manufacturing practices and facilities
 - ✓ Generating the highest value from Crude Tall Oil
 - ✓ Minimized emissions and waste
 - ✓ High energy efficiency
- Committed to continuous improvement
 - ✓ ISO 14001
 - ✓ ISO 9000
 - ✓ Responsible Care® program



SERVING CUSTOMERS GLOBALLY

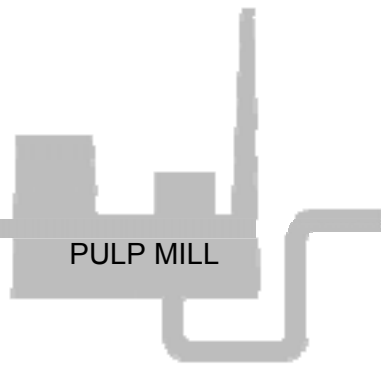


VALUE FROM THE TREE

Using renewable raw material



Utilising the co-product of pulp production



Refining and producing chemicals

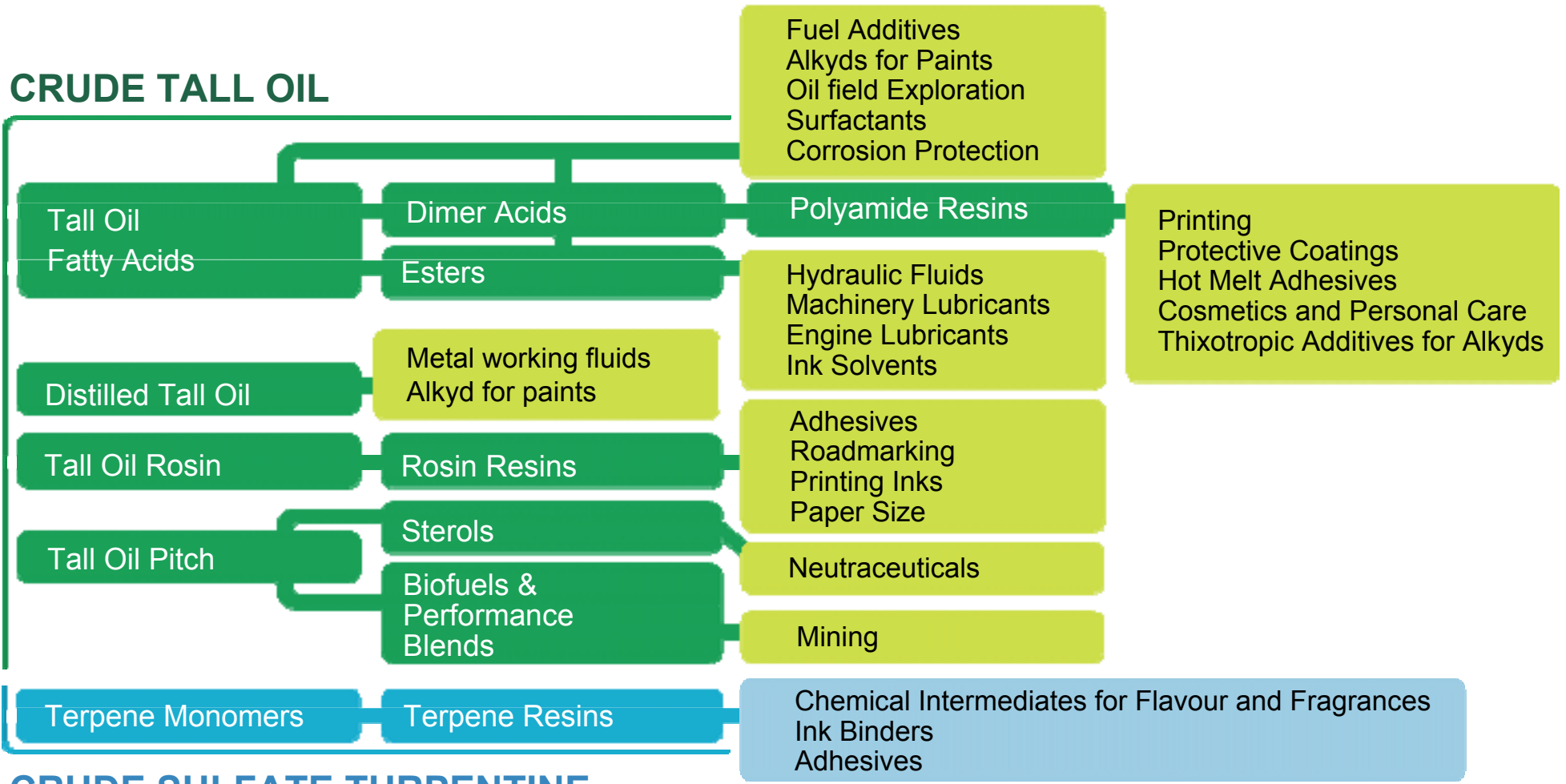


**ARIZONA
CHEMICAL**

Providing sophisticated products for the global chemical industry



CRUDE TALL OIL



CRUDE SULFATE TURPENTINE

PINE CHEMICALS ARE EVERYWHERE





DECADES OF GREEN INNOVATION

HOT MELT POLYAMIDE ADHESIVES

Solvent free

FLOATATION CHEMICALS

Replaces diesel

TERPENE RESINS FOR POLYMER ADDITIVES

Replaces hydrocarbon polymers

HIGH SOLID POLYAMIDE

Low VOC flexo inks and coatings

BIODEGRADABLE CHAINSAW LUBRICANTS

Less hydrocarbon based waste in environment

FATTY ACID ESTER SOLVENTS FOR INKS

Replacement of hydrocarbon solvents

SYLVAPRINT HSR LITHO INK RESINS

Less use of metallic based gelling agents

1970.....

..... TODAY

TACKIFIERS FOR HOT MELT ADHESIVES

Reduces solvent usage

TOFA AS A LUBRICITY ADDITIVE FOR LOW SULFUR DIESEL

Lower SO_x emissions

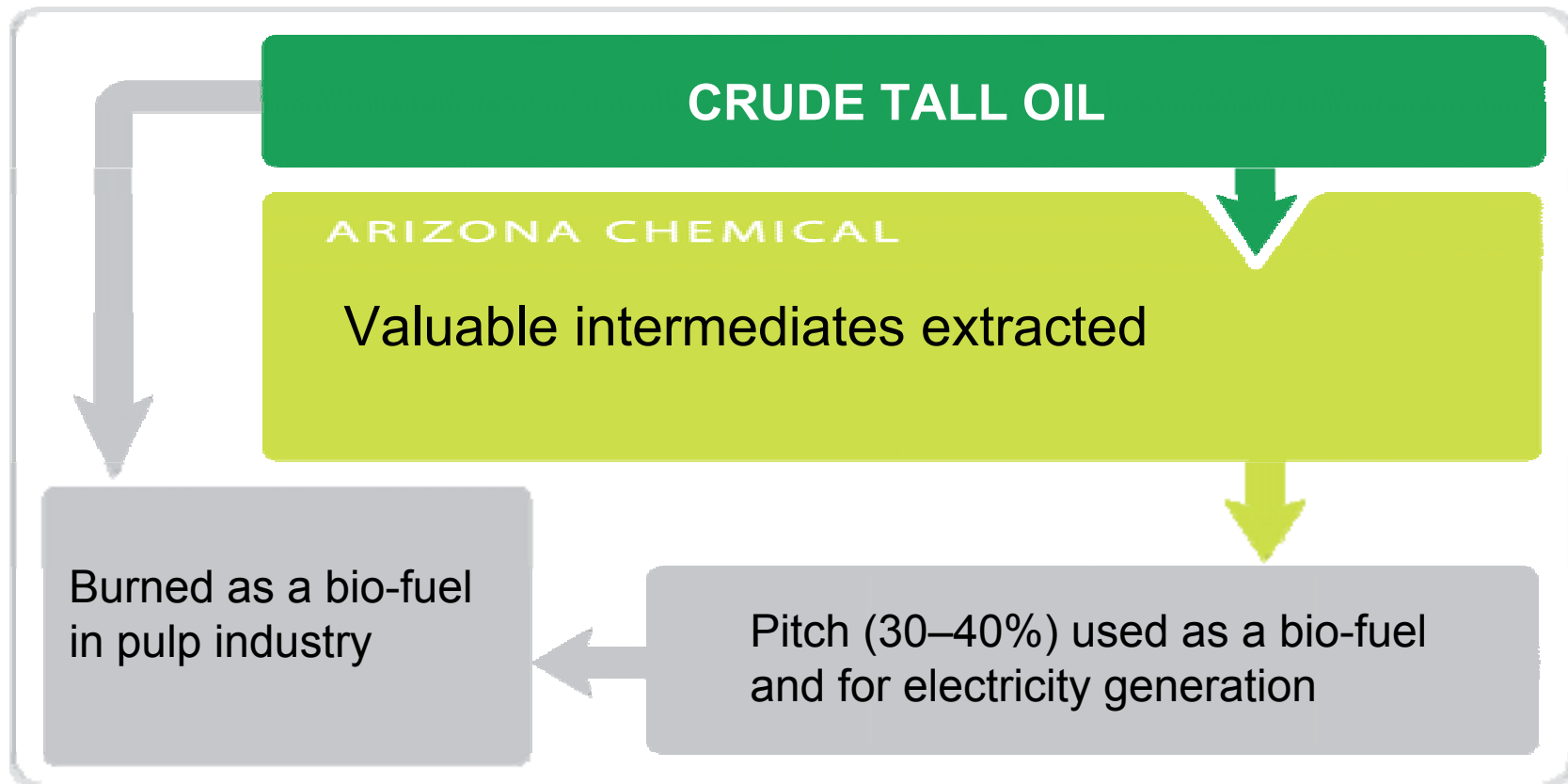
BIODEGRADABLE HYDRAULIC FLUIDS

Less hydrocarbon based waste in environment

LOW SULFUR TOFA AS A LUBRICITY ADDITIVE

Lower SO_x emissions

CREATING HIGHEST VALUE WITH CTO



Renewable raw material replaces fossil fuels

END USER

Low emission driving, natural base for cosmetics, bio-degradable hydraulic fluid

CUSTOMER

Bio-based solutions such as road marking, ink resin, reduced sulphur level in fuel



SUPPLIER

Additional value from pulp industry waste stream

CLEAN MANUFACTURING

Strictest EHS
Added value with sustainable high technology refining

- Eco-labeled biodegradable formulated lubricants
 - ✓ To reduce the environmental damage of spilt lubricant, especially from total-loss applications such as hydraulic systems or chainsaw oils
- Sylvaprint Tall Oil based esters used as ink solvents
 - ✓ To reduce harmful VOCs in the ink solvents of the printing industry
- Tall Oil Fatty Acid lubricity additives in fuel
 - ✓ To reduce emissions of sulphur dioxide from car and truck exhausts, the fuel producers reduced the sulphur levels in diesel. Additives are necessary to avoid the resulting damaging engine wear.

- Products for new applications
 - ✓ Tall Oil Fatty Acids as a base for high solid alkyd resins allow over 50% reduction of VOCs in paints
 - ✓ Gellants made of Tall Oil based polyamides are used in cosmetics, sunscreens and lipsticks
- Biopolymers
 - ✓ Tall Oil building blocks like dimer are used as a renewable resource for the plastics industry
- Processing additives
 - ✓ To reduce energy consumption in plastics industry
 - ✓ To reduce fuel consumption of roll resistance of tread compounds in tire industry



MAKING YOUR FUTURE GREEN

**Our green tradition drives
your green future.**

