

WELCOME TO SUNPINE IN PITEÅ IN SWEDEN





Sustainable forestry



1917



The Swedish Forest Industry



2017



Natural CO₂ consumption

THROUGH PHOTOSYNTHESIS OUR SUSTAINABLE FORESTRY
PROVIDE CLEAN AIR AND AN ENVIRONMENTALLY FRIENDLY
SOLUTION TO THE TREATMENT OF CO₂ EMISSIONS



I AM A NEW TREE

Sustainable Forestry

2 TREES ARE PLANTED FOR EACH TREE BEING CUT.
THIS ENSURES THE CONTINUED NATURAL
REGENERATION OF OUR FORESTS

I AM A NEW TREE

Our Perpetuum Mobile





SUNPINE

THE SWEDISH OIL RESERVE

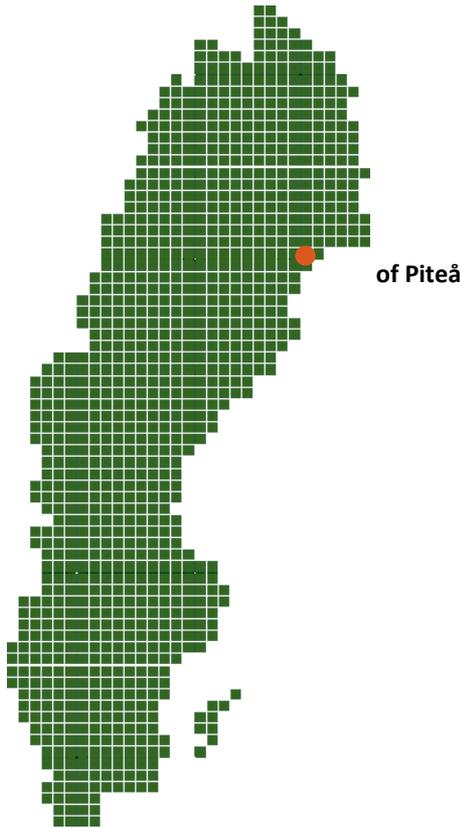
SunPine 2006



SunPine 2010 – Inauguration in May



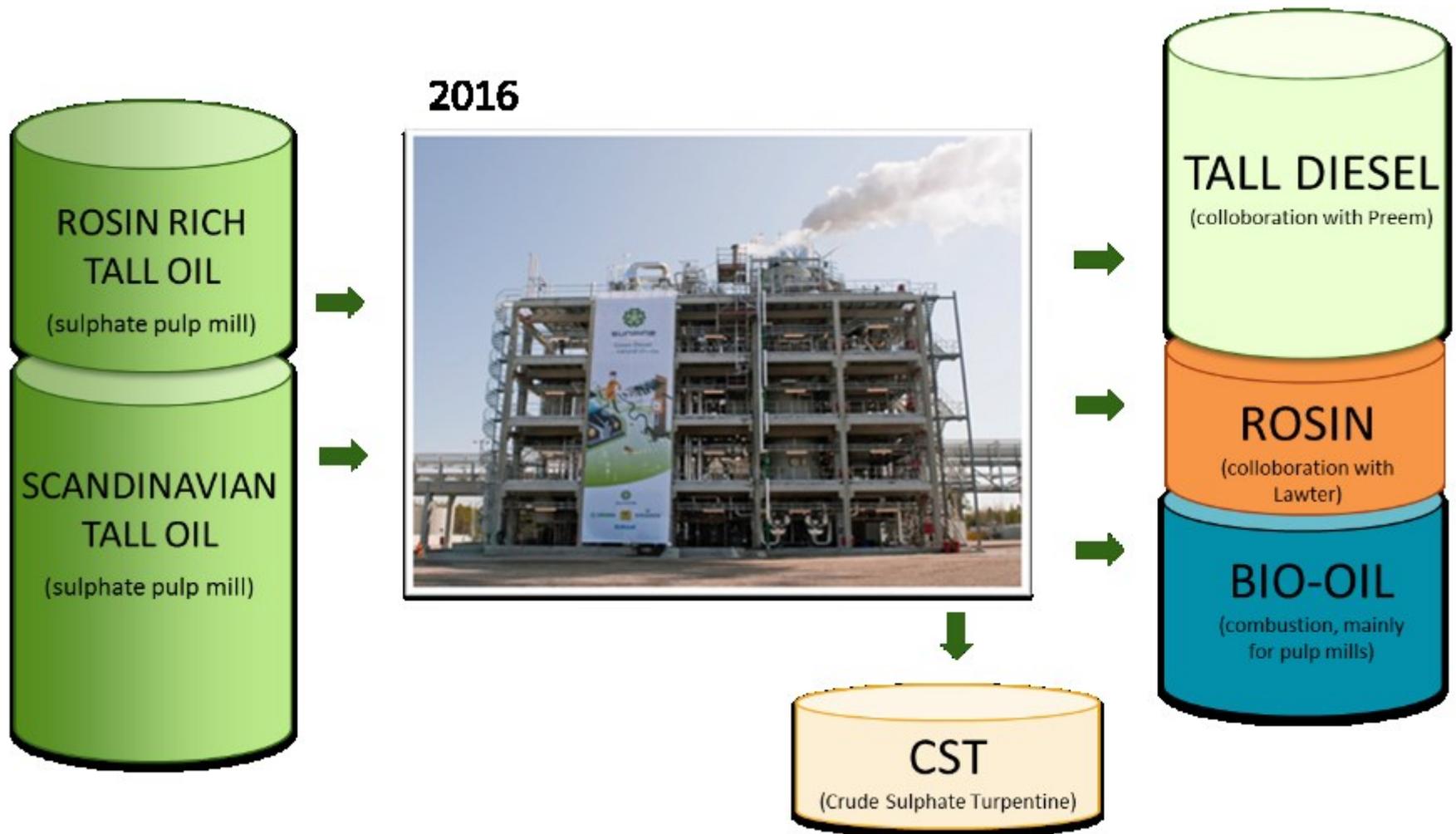
SunPine summer 2010 – Haraholmen in Piteå



Crude Tall Oil became Crude Tall Diesel and Bio Oil



Biorefinery - Two raw materials and four products





**100,000 m³ of Tall Diesel
reduces CO₂ emissions with 250,000 mt.
Renewable Diesel every year!**



SUNPINE – A UNIQUE FACILITY

FIRST IN THE WORLD TO PRODUCE DIESEL FROM THE FOREST

Utilising a residual product from the Pulp industry

The foundation is a sustainable forestry

PRODUCING TALL DIESEL AND ROSIN

Additional products TOP and CST

A unique mix of products & raw material

The investment & the energy consumption



SUNPINE

Sunpine AB – facts and summary

SALES

> 1 billion SEK

54

EMPLOYEES

Target for recruitments 2017

CREATED MORE THAN 100 JOBS

Direct and indirectly



SUNPINE

The owners of SunPine AB



25%

SWEDEN'S LARGEST FOREST OWNER AND A LEADING SUPPLIER OF SAWLOGS, PULPWOOD AND BIOFUEL.



25%

SWEDEN'S LARGEST FUEL COMPANY, WITH OVER 600 FUEL STATIONS FOR PRIVATE AND COMMERCIAL TRAFFIC. PREEM HAS TWO REFINERIES IN SWEDEN: PREEMRAFF LYSEKIL AND PREEMRAFF GÖTEBORG.



25%

SWEDEN'S LARGEST FOREST-OWNER ASSOCIATION AND A LEADING GLOBAL PRODUCER OF PAPER PULP.

KIRAM

15%

A DEVELOPMENT COMPANY IN THE BIOREFINERY TECHNOLOGY FIELD AND THE FOUNDER OF SUNPINE.

LAWTER™

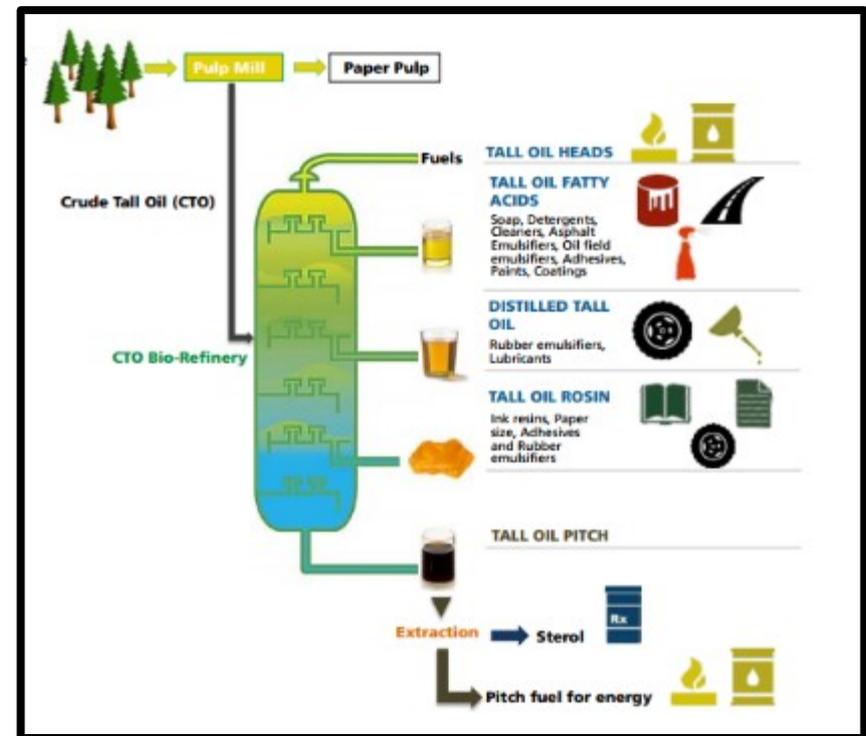
10%

LAWTER IS A DUTCH COMPANY OWNED BY HARIMA CHEMICALS (JAPAN). A STRONG POSITION IN TERMS OF CHEMICAL PRODUCTS EXTRACTED FROM TALL OIL.



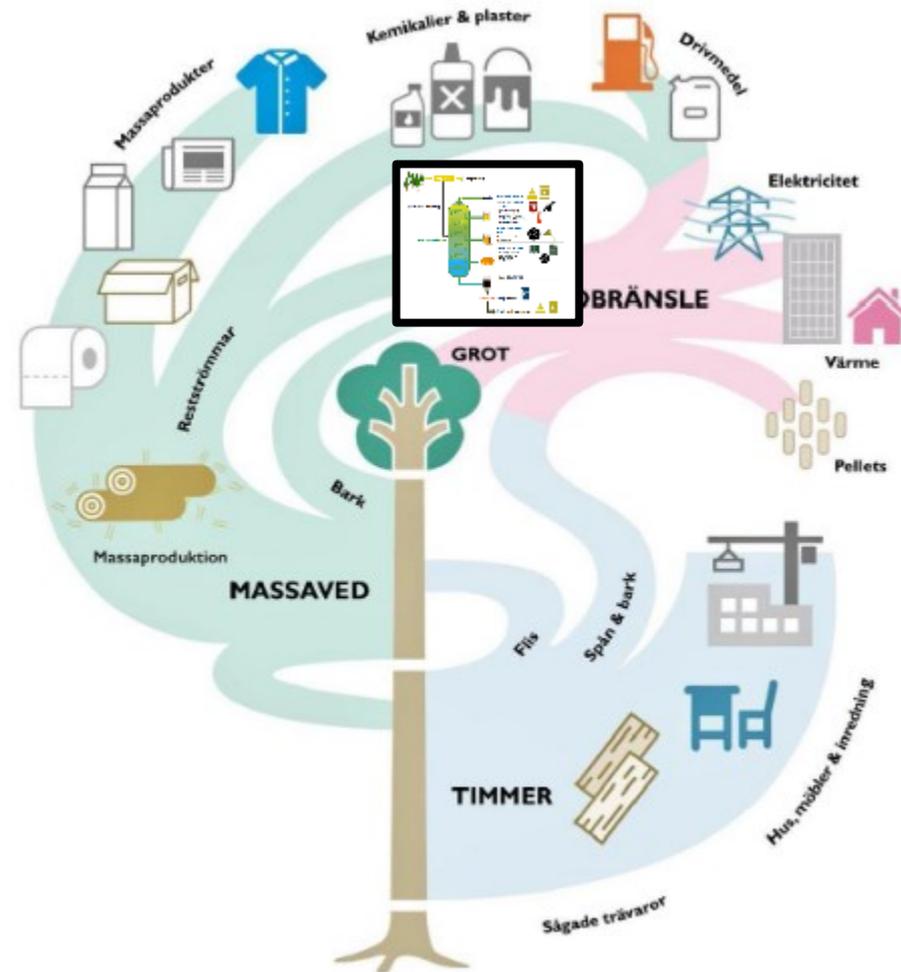
The Cascading Principle – Misconceptions

- **Arguments regarding Cascading**
Chemical companies
- **Good to start to understand**
Principle behind cascading is OK
- **Cascading developed in Scandinavia**
Forest industry has developed during 100 years



The Cascading Principle – Misconceptions

- **Cascading developed for 100 years**
Sustainable forestry in Scandinavia
- **Important with a holistic view**
Need to look into full forest industry
- **Chemical industry is a small part**
Small parts will have sub optimisation
- **Cascading Principle - Misconceptions**
Will be suboptimisation and misunderstanding
OK principle, needs sustainable implementation
- **Welcome to Sweden**
Display the value chain in Sustainable Forestry



SUNPINE

Important Political Decisions

- **Need to focus on tough regulations**
Focus on the targets
- **Need to demand Total Climate effect**
Not specific products
Not specific raw materials
- **OK to produce advanced biofuels from the Forest**
Using any raw material or product from the forest
Not controlling how to use material from the forest
- **Focus on the targets and total Climate Effect**
Not trying to stipulate “how” to produce “what”
Create the demands in the long term regulations
- **Long term rules to promote Investments**
It cannot be possible to change the rules (RED II)
Need to be trustworthy to attract investments



SUNPINE



SUNPINE



Thank you for your attention