Biodiesel Chains

"Promoting favourable conditions to establish biodiesel market actions"

Contract No: EIE/05/113/SI2.A20022

Tuesday 28 February 2006

Athens, Greece

Nikos Liapis

Supply and Operation Director

ELINOIL –HELLENIC PETROLEUM COMPANY SA.

biofuels

- 1998 … the vision
- 2005… the reality
- From now on … the future

Elin approach

- We start from the consumer

1st ALTENER PROJECT

Penetration of Biodiesel into the Greek Fuel Market

LFTL-NTUA

ELINOIL S.A

IMU-AUSTRIA

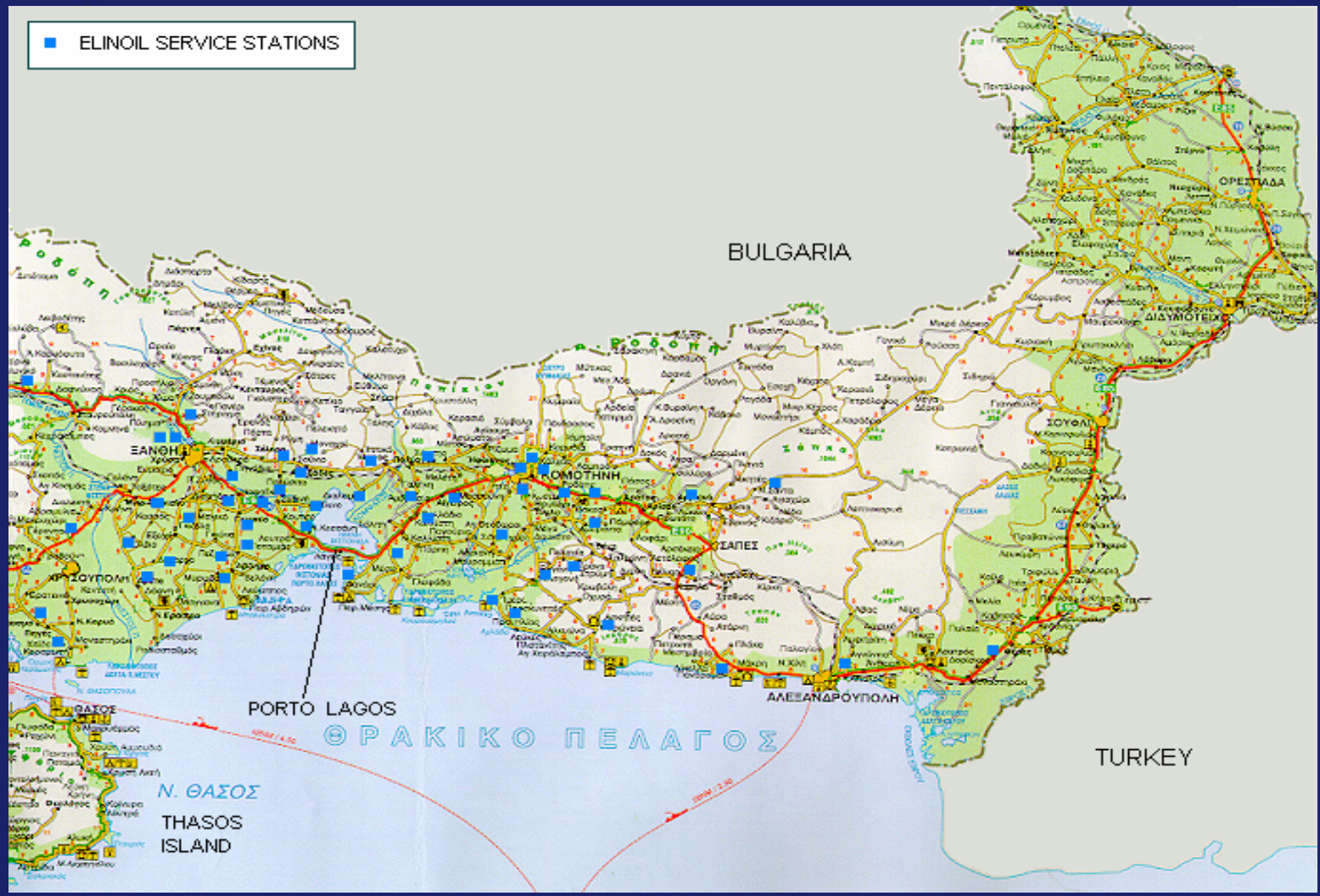
Mixture of 7% Rapeseed Oil Methyl Ester

A PHASE : 1999, 5 PETROL STATIONS

B PHASE : 2000, 25 PETROL STATIONS

BULGARIA
F.Y.R.O.M.
ALBANIA
Alexandroúpolis
Kilkis
Kavála
Thessaloníki
Komotiní
Ioánnina
Límnos
Kérkyra
Lárisa
Vólos
Lésvos
TURKEY
Aegean Sea
Chalkís
Pátrai
Chíos
Elefsís
Ionian Sea
Peiraiéfs
ATHENS
Sámos
Náxos
Kos
Rhodes
Sea of Crete
Mediterranean Sea
Irákleion
Crete
0 75 150km
0 75 150 mi

PETROL STATIONS IN NORTHEASTERN GREECE



Biodiesel
Diesel φυτικής προέλευσης
Από 15/6 έως 15/9

Πιλοτικό Πρόγραμμα
για τη διάδοση του
Biodiesel
Biodiesel
ελιν

2nd ALTENER PROJECT

IMPLEMENTATION OF A BIODIESEL PRODUCTION PLANT IN NORTHERN GREECE

LFTL-NTUA

ELINOIL S.A

CRES

ABI

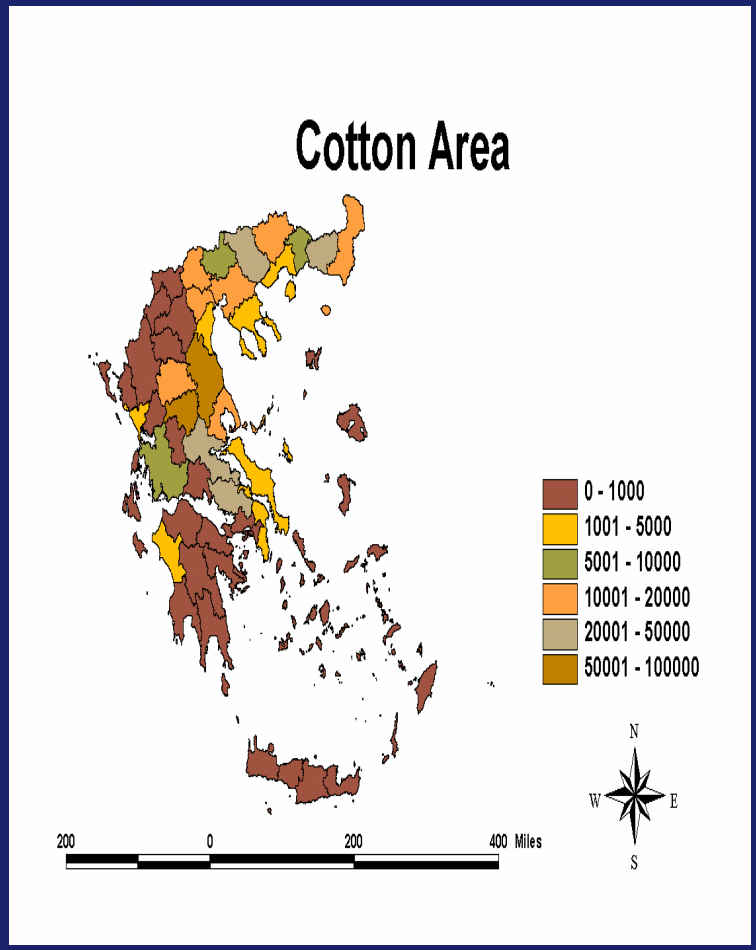
FEEDSTOCK ASSESMENT

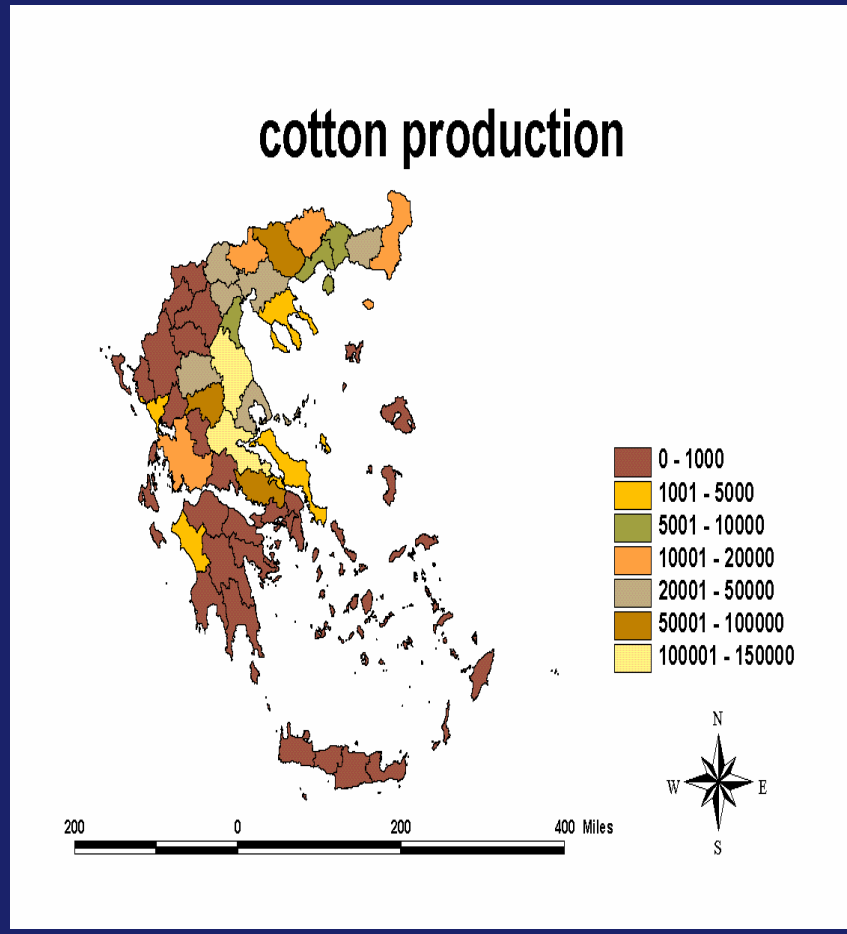
Feedstock Availability assesment specially for :

1. Cottonseed oil
2. Sunflower oil
3. Rapeseed oil
4. Animal fat
5. Tomatoseed oil
6. Seta aside areas

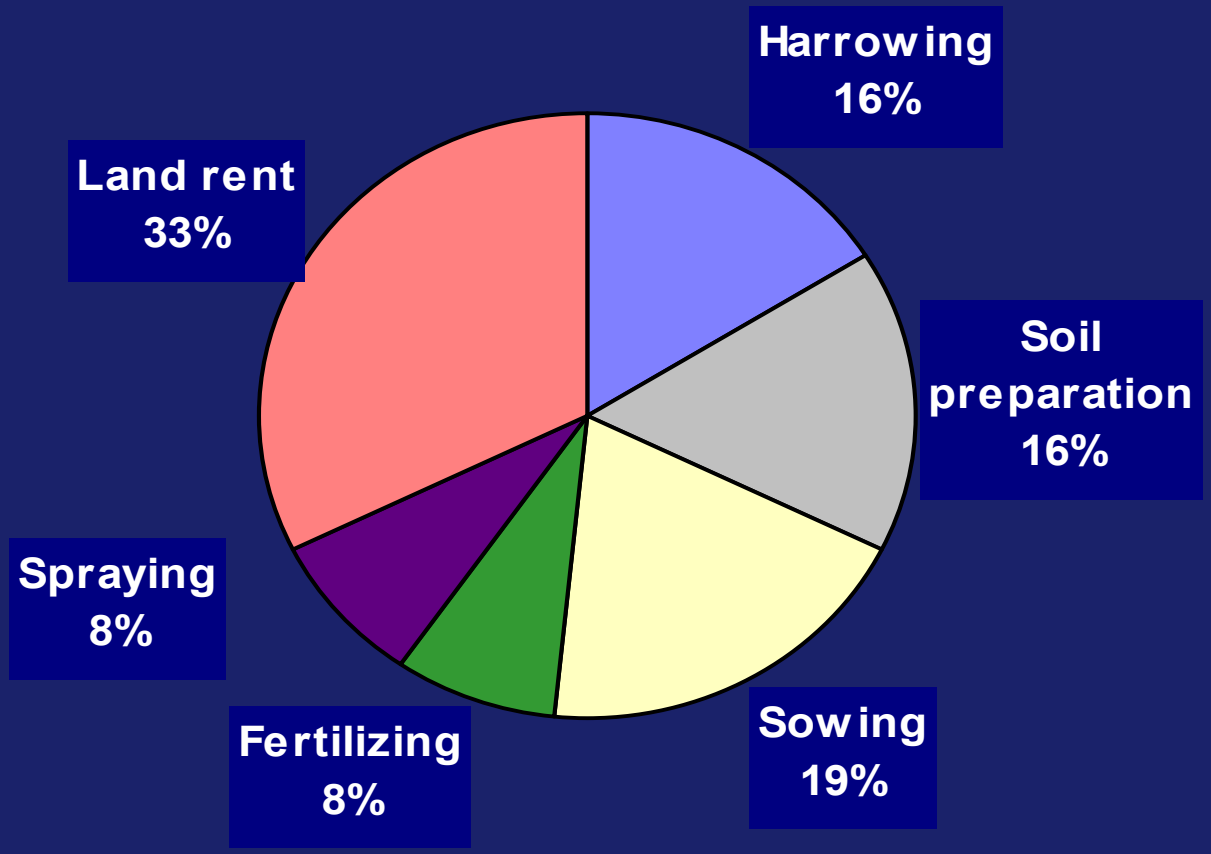
Production cost estimation for :

1. Cottonseed oil
2. Sunflower oil
3. Rapeseed oil


Cotton Area
0 - 1000
1001 - 5000
5001 - 10000
10001 - 20000
20001 - 50000
50001 - 100000
N
W
E
S
200
0
200
400 Miles

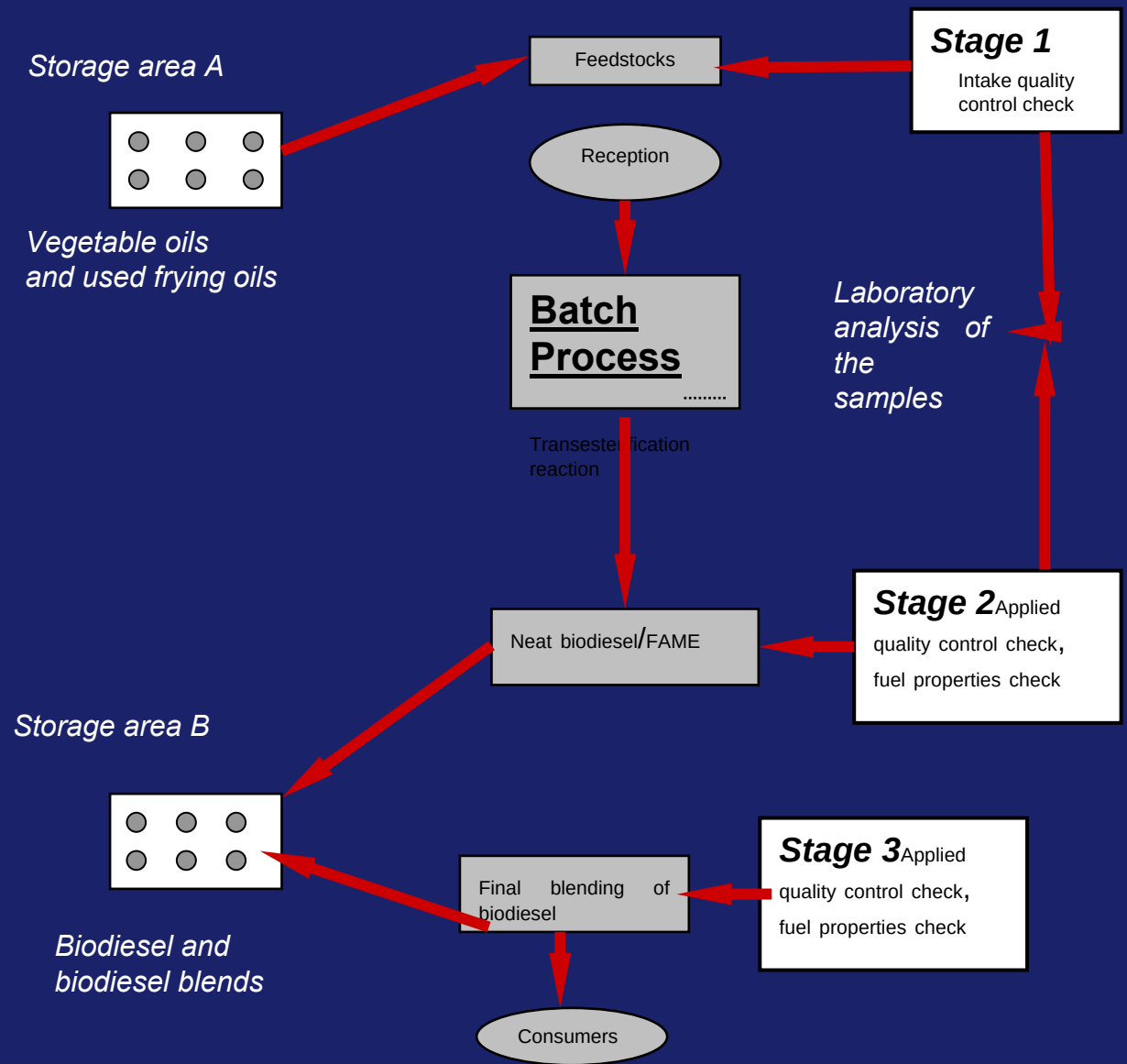

cotton production
0 - 1000
1001 - 5000
5001 - 10000
10001 - 20000
20001 - 50000
50001 - 100000
100001 - 150000
N
W
E
S
200
0
200
400 Miles

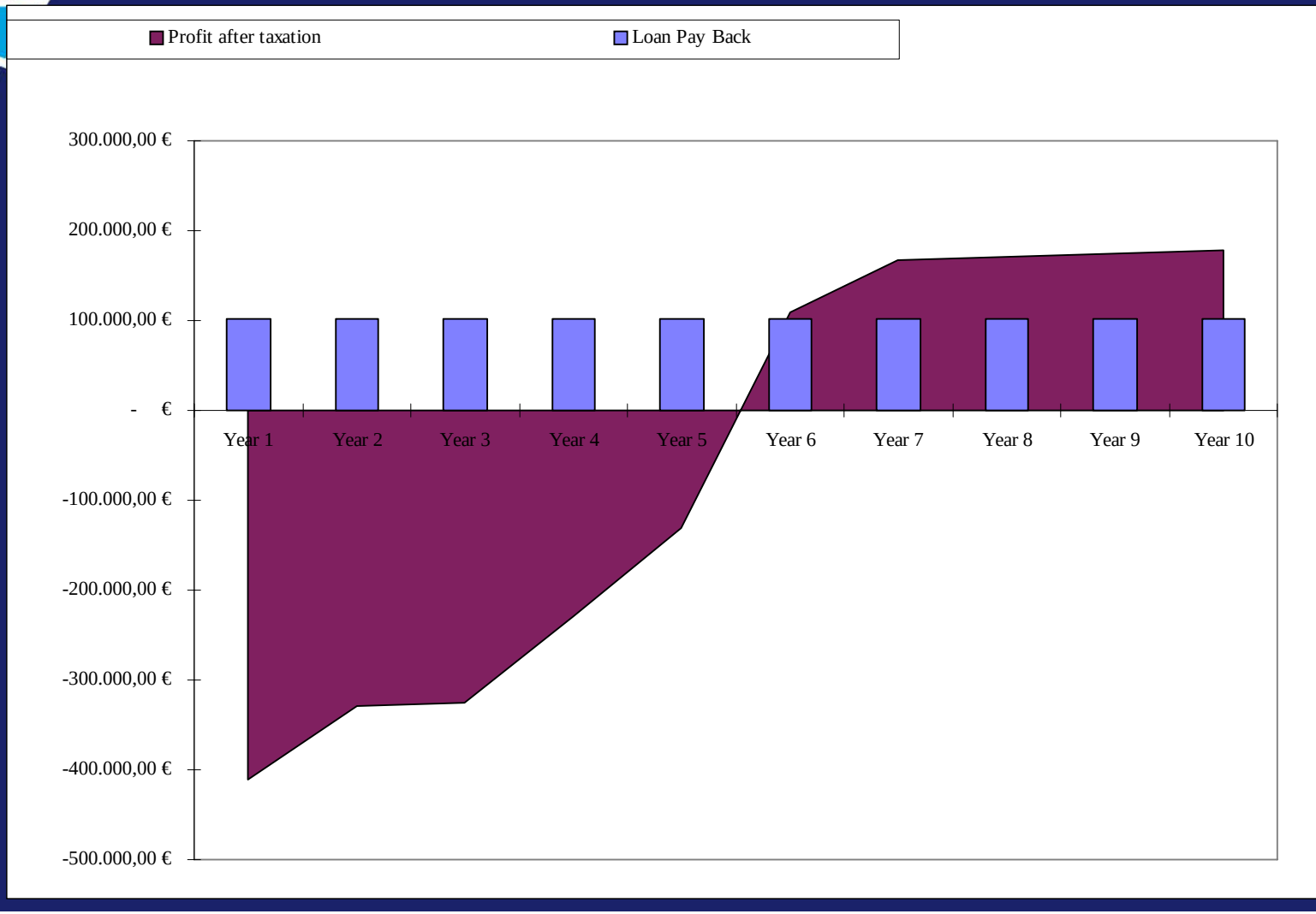
FEEDSTOCK PRODUCTION COST



Cost breakdown of the establishment costs for 1 ha of Brassica carinata in Rodopi, northern Greece during the third growing period

QUALITY CONTROL





The Loan Pay Back against the profit after taxation for a biodiesel plant with the use of **multi-feedstock**

STRATEGY FOR THE DEPLOYMENT OF BIOFUELS FOR TRANSPORT IN THE EASTERN EUROPEAN MARKET

Trading Considerations & Assessment

Final step: production

- Strategic partner: PETROTEC GmbH
- Multi feedstock technology
- Used Frying Oil process unit
- 40.000 tones per year
- 5.000 tones storage capacity

BULGARIA
F.Y.R.O.M.
ALBANIA
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Kilkis
Kavála
Komotini
Thessaloníki
Ioánnina
Límnos
Kérkyra
Lárisa
Vólos
Lésvos
TURKEY
Aegean Sea
Chalkis
Pátrai
Chíos
Elefsís
Peiraiéfs
ATHENS
Sámos
Ionian Sea
Náxos
Kos
Rhodes
Sea of Crete
Mediterranean Sea
Irákleion
Crete
0 75 150km
0 75 150 mi

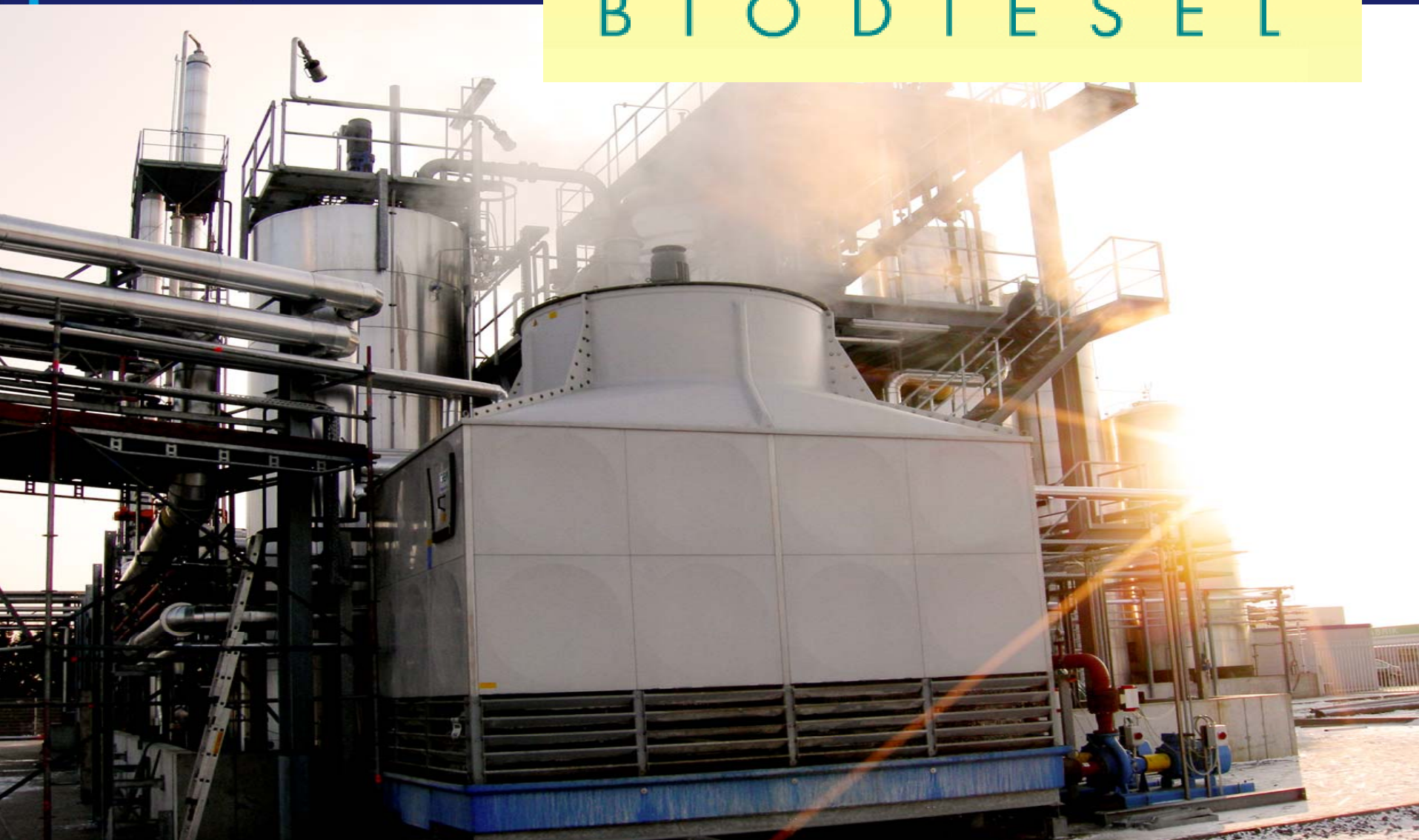
PETROTEC®

BIODIESEL

PETROTEC® BIODIESEL

PETROTEC®

BIODIESEL



PETROTEC®

BIODIESEL

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ΕΛΙΝ ΤΕΧΝΙΚΗ Α.Τ.Ε

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video

THANK YOU FOR YOUR ATTENTION