

Port project Sines

95% capacity won't be used by refinery

what can be done with that break-water?

• it is not a good place for transshipment

namurille - Haave

oil in the Northern sea

location not ideal for

• opening of Suez canal → it changes the transshipment

unlikely that it will be used (for coal? grain?)
no

- Sines is not on the route

- what will be the port-charges in Sines?

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Railroad

- planned to carry oil, petrochemical

in the early years of Sines proj. railroad

is not necessary, because it will be exported

- no rationale for railway rates

not to build the railroad but to use the shipping

→ not big concern it/s

refinery, petrochem., fertilizers

→ Italy, Spain over-refinery

- Petrobrás - 10^7 tons → $15 \cdot 10^6$ tons to be by
 $> 380,000$ barrels/day

vs. Chile 1.000

Cuba 100.000

Brasil

Scand. 830.000 $\approx 2x$

excess capacity all over Europe

projeção: $17 \cdot 10^6 - 7580$

$17 \cdot 10^6 - 8085$ ($10 \cdot 10^6$)

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cut made of other sources

→ what to do with excess capacity

- to close it half/year

- processing

- how to save money

- cut refinery until it doesn't make
loss

$10^7 \rightarrow 5 \cdot 10^6 \rightarrow 1.800.000$ contos (12%)

|| $5 \cdot 10^6$ - refinery

|| $7 \cdot 10^6$ - building another in the future

Fertilizers (N, Ph, K)

N → no comparative possibility with Arabian countries

Ph → Namour, Florida

→ pyrites → SO_2 → research needed
↓ doubled in price in last year

ant benefit: based on Japanese process

Amount needed below economic size of plant

K - imported from Spain

Petrochemicals Fundação Cuidar o Futuro

polietileno - o mínimo é + do que precisamos
technology needed ∴ help of international
oil supply - where? like ICI

Steel-mill

fuel - oil imported
Small scale enterprise
it depends on the economics of pyrite process

1) to unify the system → how ≠ benefits are given
basic pension → which are the more important

→ to chose the ≠ recipients (not to give to those who don't need)
income level as a scale

or
size of benefits to related

2) who would be included?

family allowance not included in any tax

3) how to change the system for future costs
e.g. old age pensions

1 older person → 4 workers 25% port.
60-70 → 75 need to increase
in 1980/80 15% USA

4) connecting benefits to mini-wage
complicates enormously

↓
the productivity
↓
impossibility
of invest

* below mini-wage