

12- 3 renewable energy and flexible energy storage

how to manage the renewable
energy sources
on the electrical network
by
chemical energy storage

Why

because of the size of the European
program: 20% that mean 10.000MW or ten
nuclear plants only for French country

development of renewable energy from 2008 to 2020

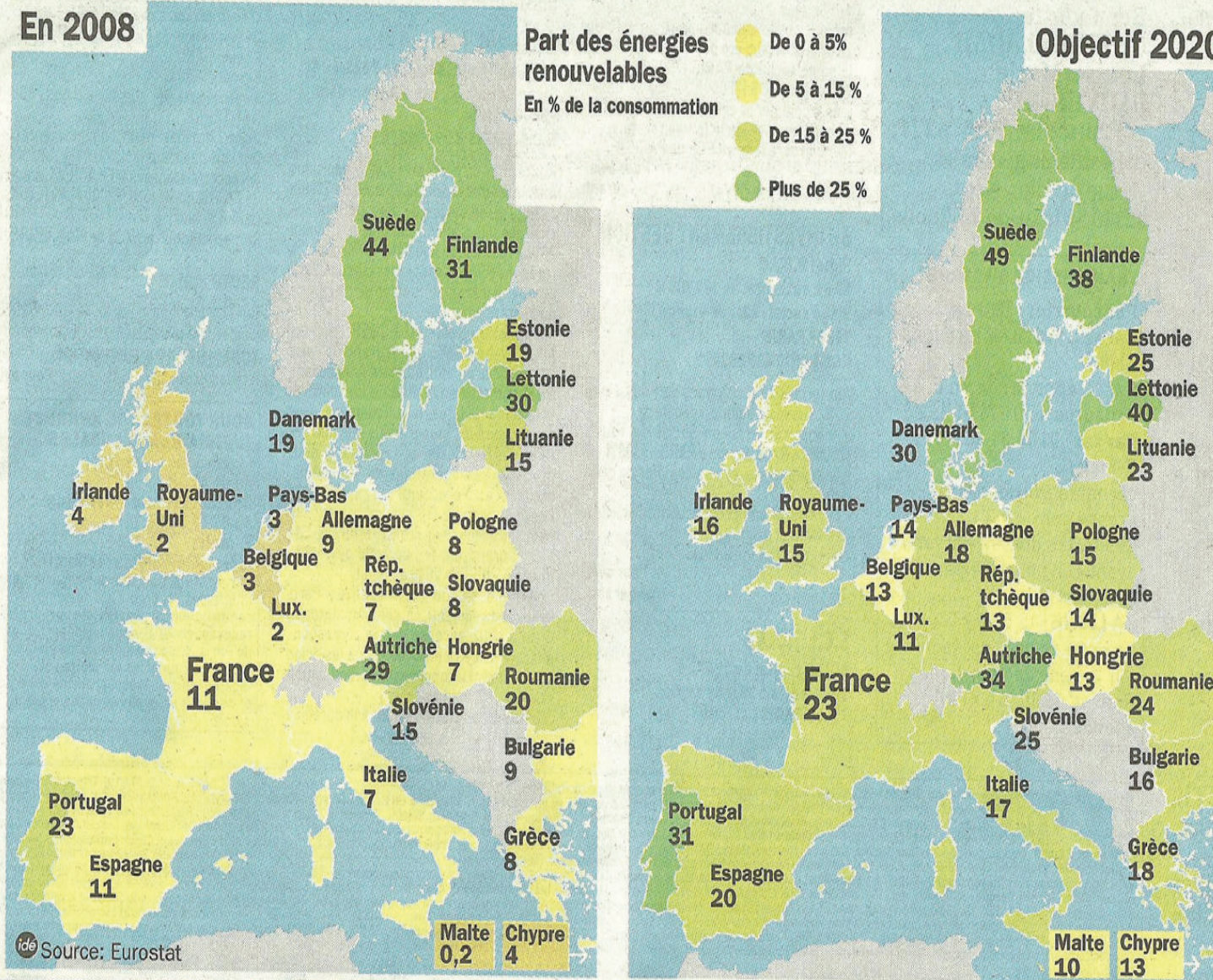
Les énergies renouvelables dans l'UE

En 2008

Part des énergies renouvelables
En % de la consommation

- De 0 à 5%
- De 5 à 15%
- De 15 à 25%
- Plus de 25%

Objectif 2020



Source: Eurostat

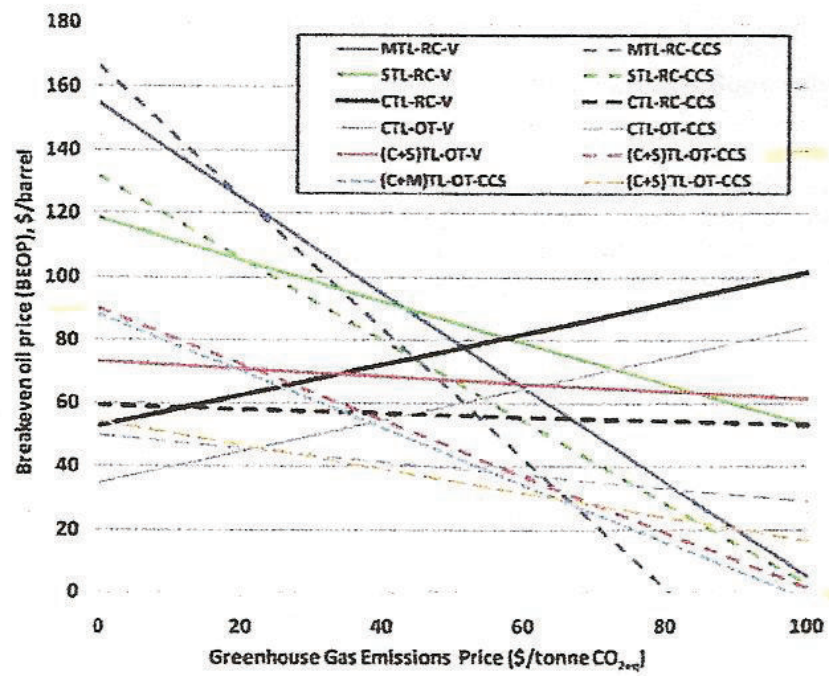
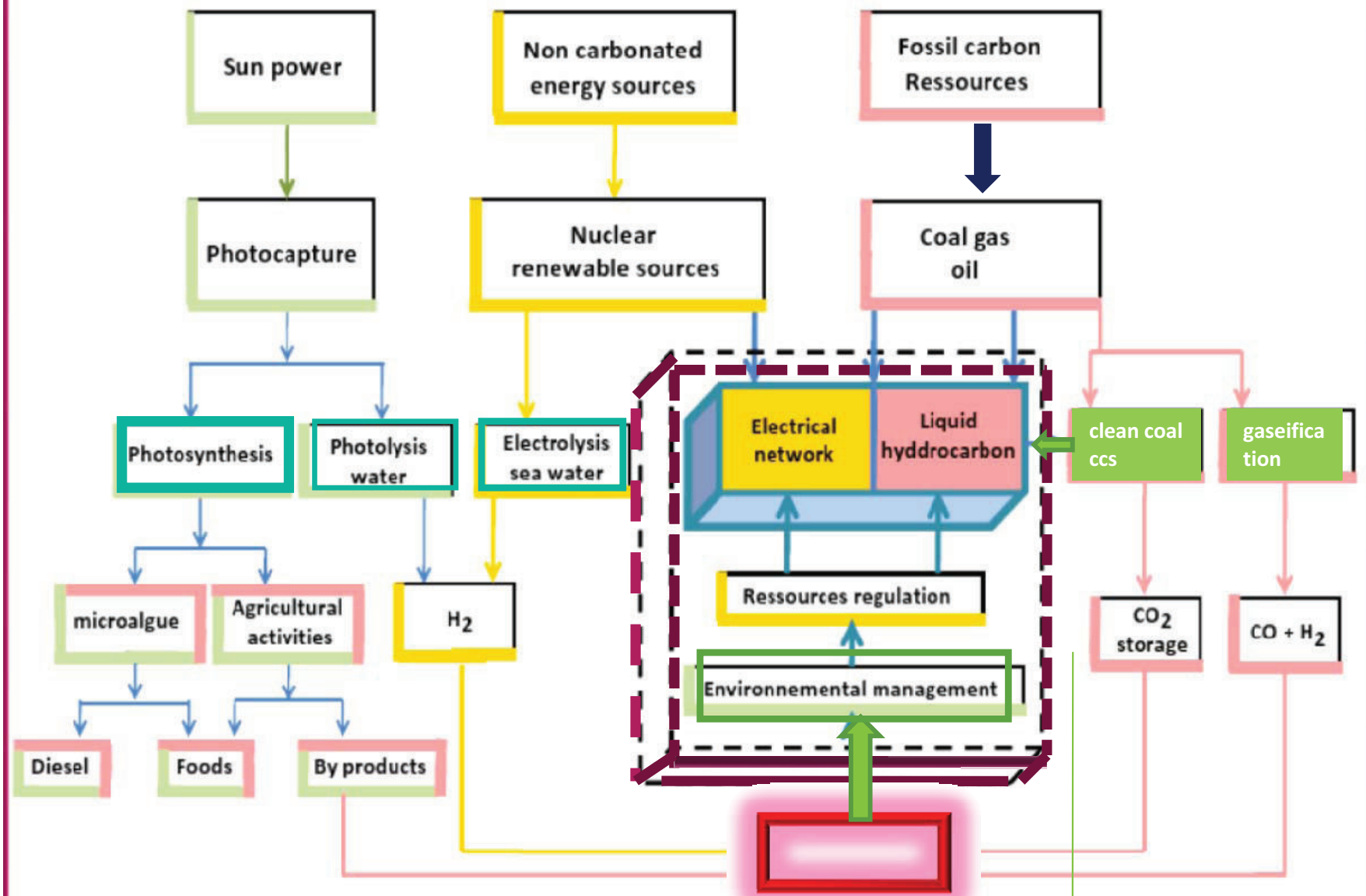


Fig. 7 FTL breakeven oil price estimates corresponding to production cost estimates shown in Fig. 6.

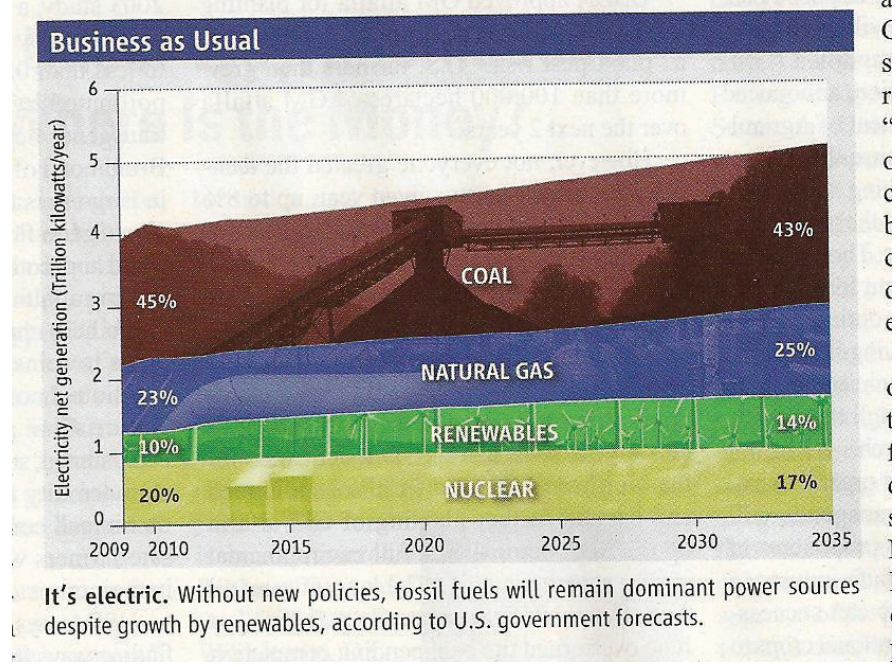
Carbon dioxide to synfuel



Key parameters

- Geopolitical cost / Jobi / energy dependency
- European regulation ETC
- Waster consumption
- Energy cost (electrical / oil)
- Energy recovery through CO₂
- CAPEX OPEX scale up
- , interest cost

President's move An RFF modeling study last year led by greenhouse gas



It's electric. Without new policies, fossil fuels will remain dominant power sources despite growth by renewables, according to U.S. government forecasts.

