Long term energy scenarios for the Basque Country

Álvaro Pérez de Laborda
Área de Estudios y Planificación
Ente Vasco de la Energía

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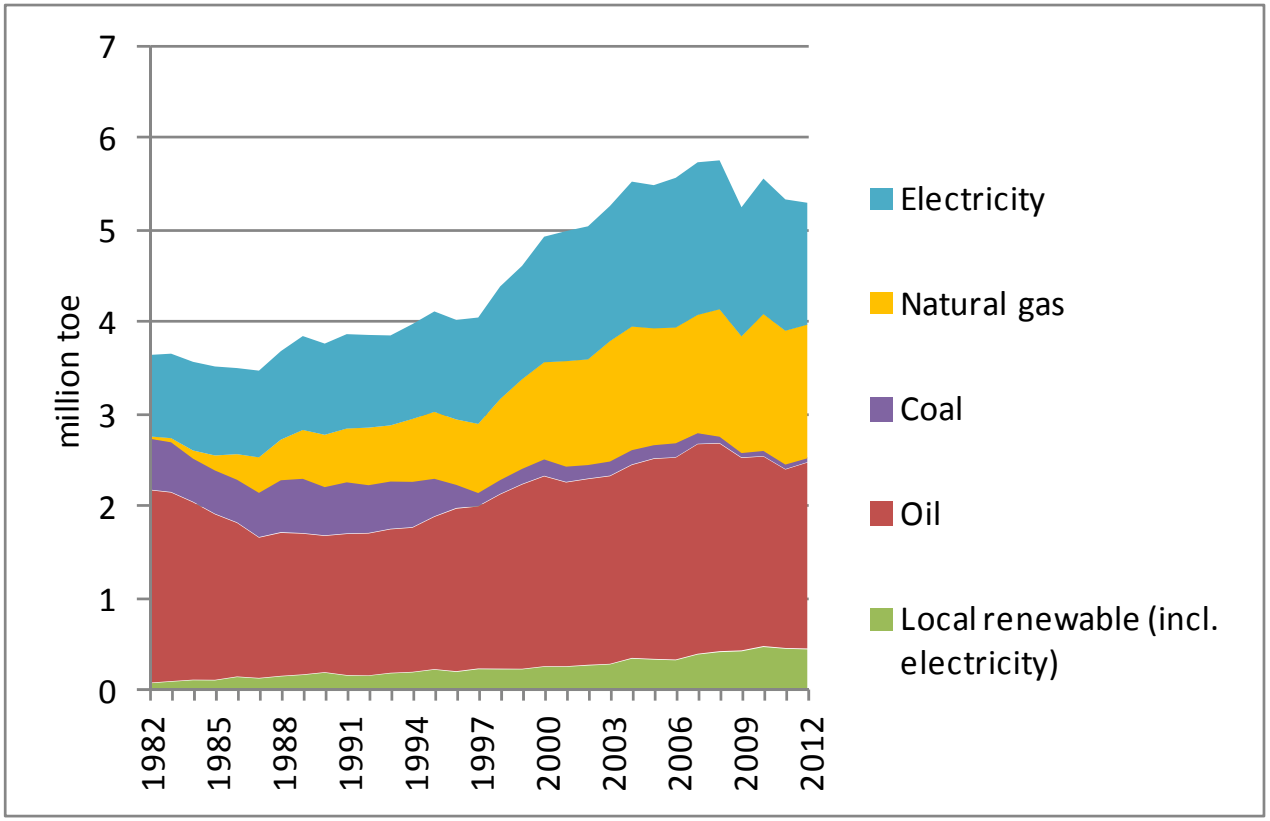
The ideas and scenarios in this document are presented for the purpose of contributing to the debate in Klimagune 2013 and do not represent official opinions of EVE.

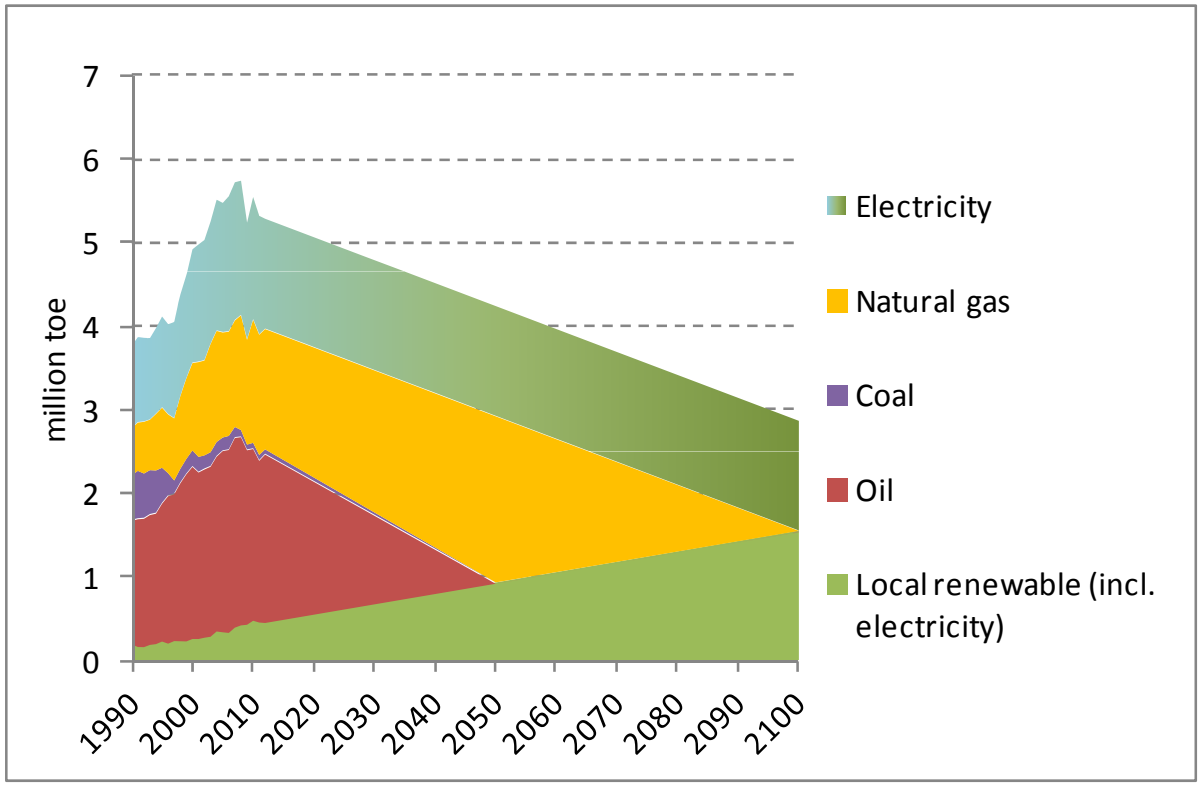
Final energy consumption in Euskadi



Long term vision of Basque energy policy

- Zero consumption of oil by 2050
- Zero consumption of fuel by 2100
- Transition through energy saving and renewables

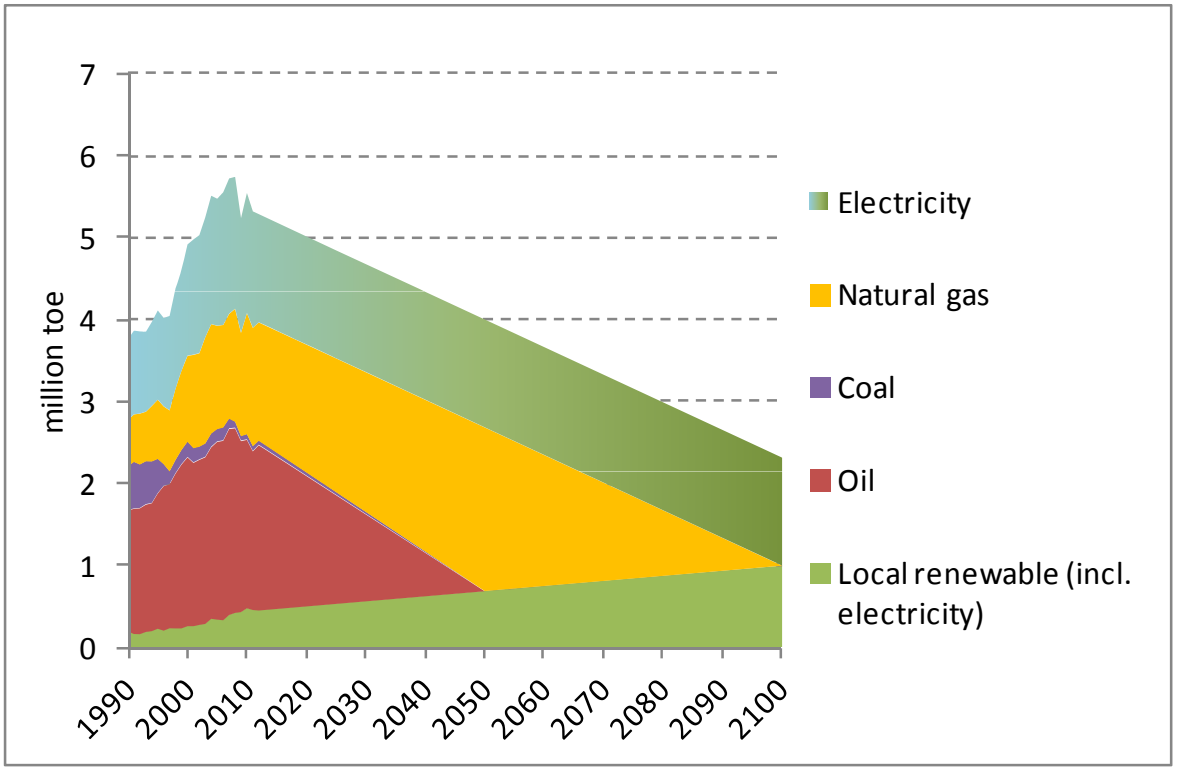
Scenario 1 – Soft decline



SCENARIO
- Renewable energy increase rate: constant
- Use of non-distributed electricity: constant

RESULT
- Final energy use: 54% of today's

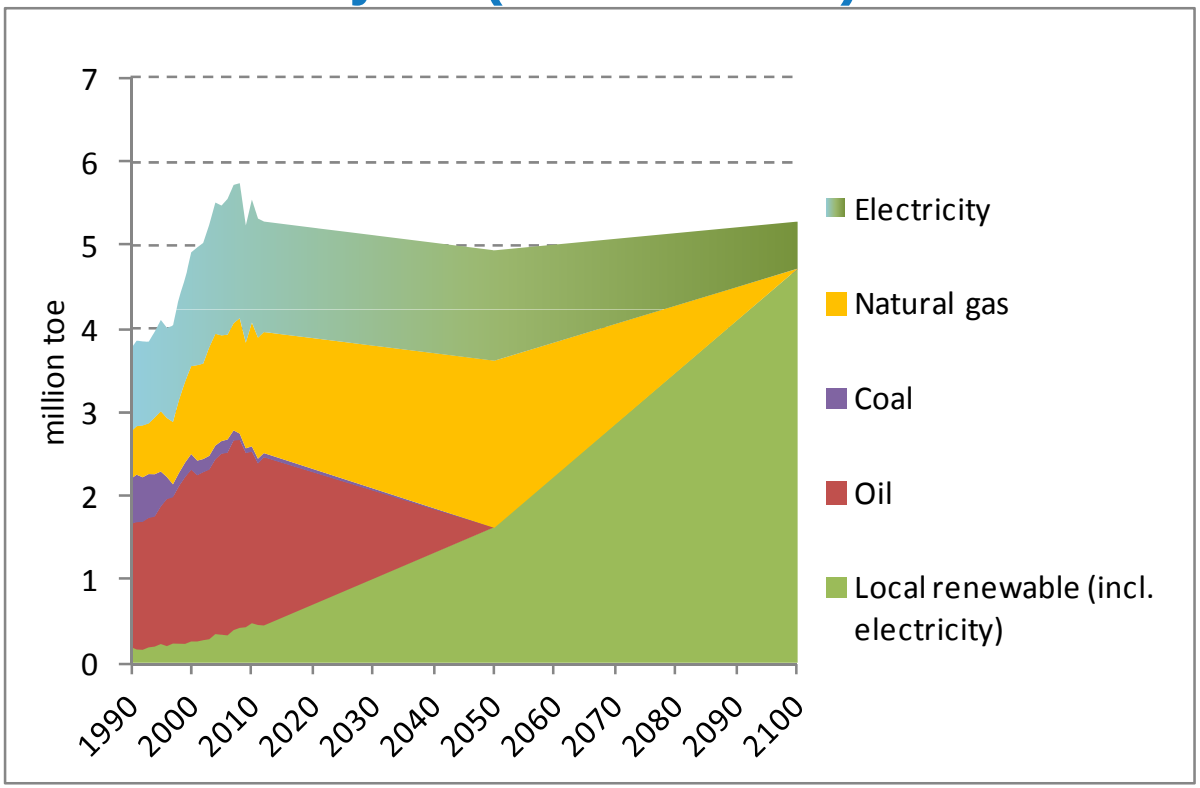
Scenario 2 – Strong restrictions to accessing energy



SCENARIO
- Renewable energy increase rate x 0.5
- Use of non-distributed electricity: constant

RESULT
- Final energy use: 44% of today's

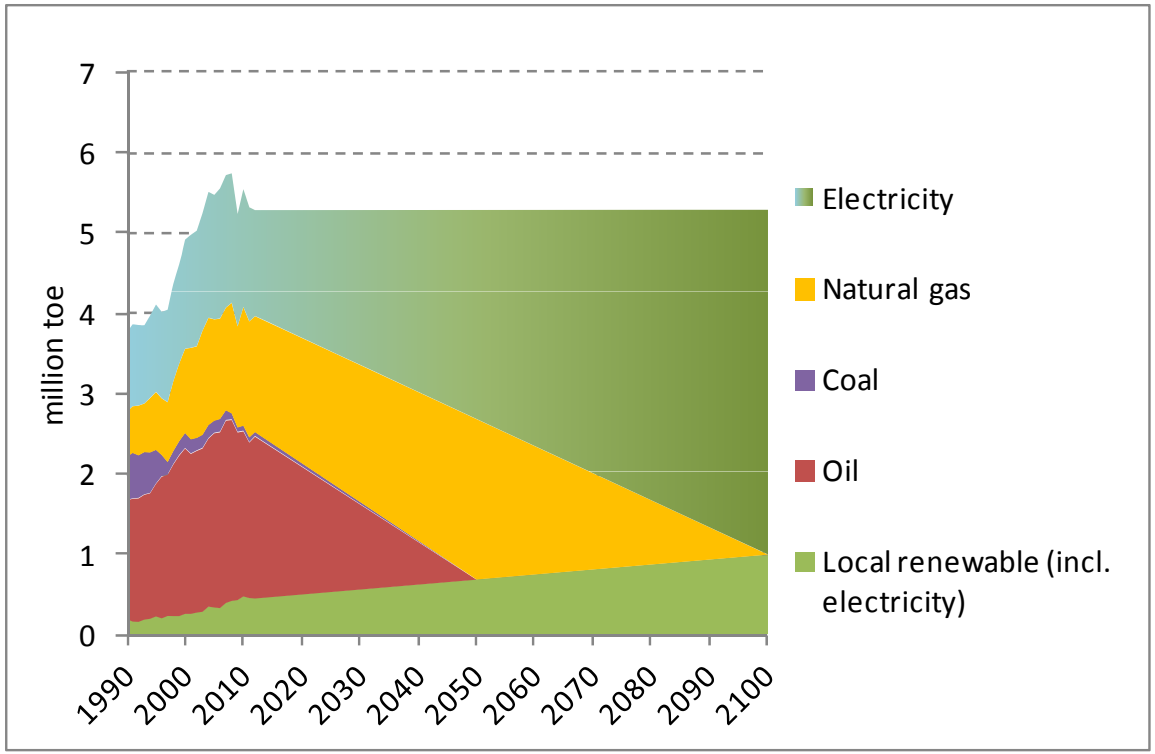
Scenario 3. Plenty of (distributed) renewables



SCENARIO
- Renewable energy increase rate x 2.5 / x 5
- Final energy use: 100% of today's (or more!!)

RESULT
- Use of non-distributed electricity: 43% of today's

Scenario 4. Plenty of renewables (but not here)



SCENARIO
- Renewable energy increase rate x 0.5
- Final energy use: constant

RESULT
- Use of non-distributed electricity x 3.3

Conclusions

- Energy efficiency is basic for better adaptation
- Our energy future depends on **technological development**
  - Renewable energy
  - Storage
  - Energy efficiency
- The role of the **electricity grid** is essential
- We may have to resign ourselves to less energy…
- Disruptive technologies cannot be planned!

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Thank you

Álvaro Pérez de Laborda
alaborda@eve.es