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AZORES (Ponta Delgada) - 20 & 21 May 2010

## Energy policy in the Azores

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## Main Concerns:

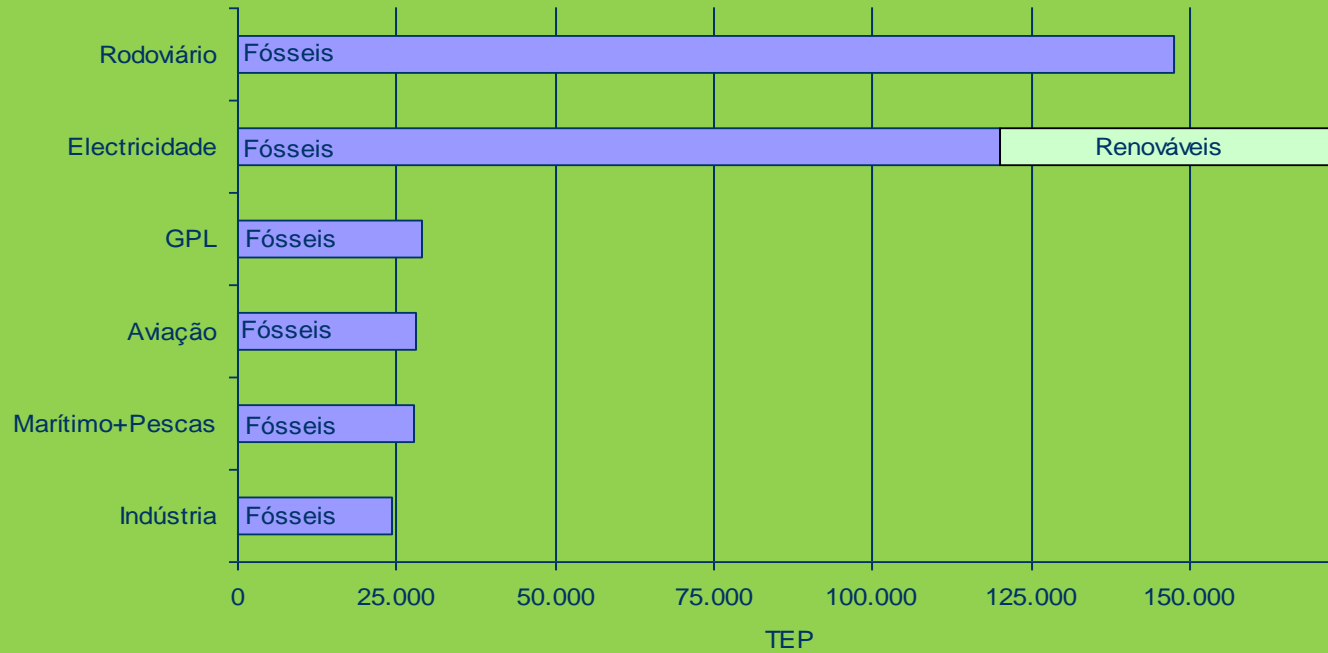
- Climate change
- Reduce oil dependence (price fluctuations,...)

## Strategy:

- More renewables
- Higher efficiency



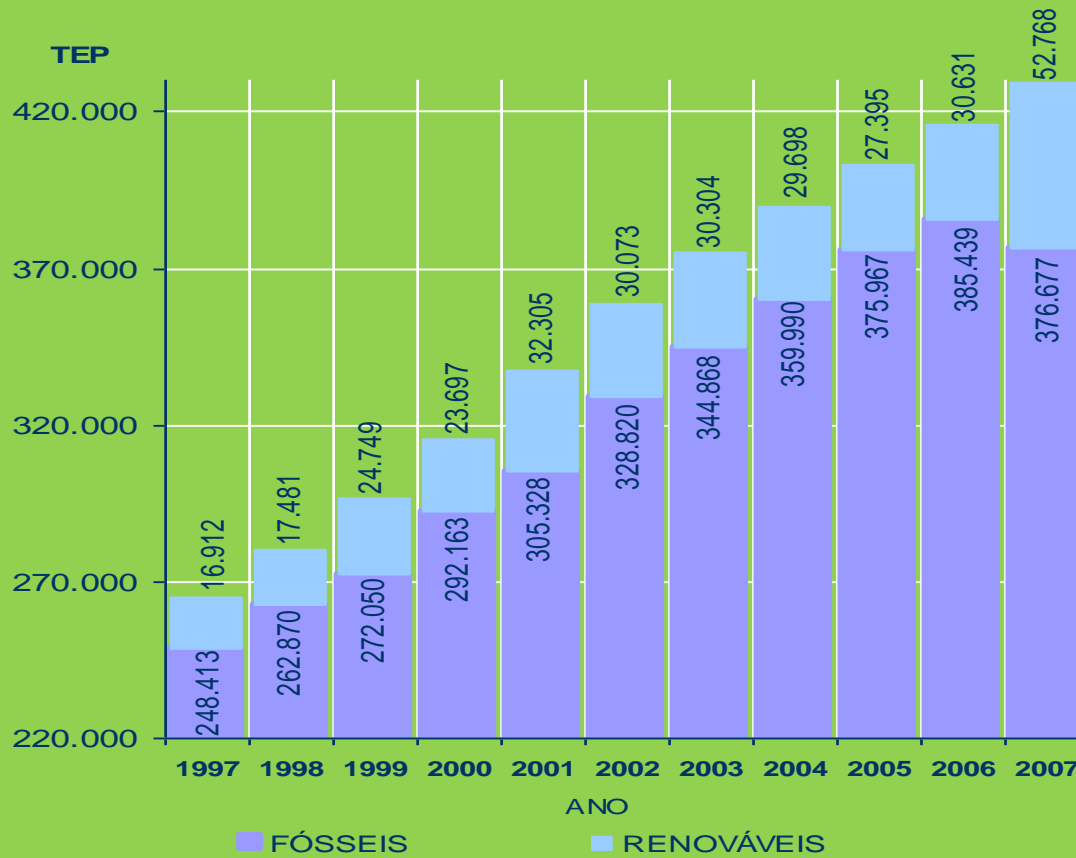
# Azores - Primary Energy Consumption



87% of the primary energy comes from oil and is mostly used in vehicles and electricity generation.



# Azores: Primary Energy 1997-2007



| Primary Energy (TEP) |           |               |        | GDP  | CPI   | GDPp1997 | Dep  | Energy Int |
|----------------------|-----------|---------------|--------|------|-------|----------|------|------------|
| Year                 | Renewable | Non Renewable | Total  |      |       |          |      |            |
| 1997                 | 16912     | 248413        | 265325 | 1785 | 100   | 1785     | 93,6 | 148,6      |
| 1998                 | 17481     | 262870        | 280351 | 1955 | 103,2 | 1894     | 93,8 | 148,0      |
| 1999                 | 24749     | 272050        | 296799 | 2155 | 105,9 | 2035     | 91,7 | 145,8      |
| 2000                 | 23697     | 292163        | 315860 | 2274 | 108,0 | 2106     | 92,5 | 150,0      |
| 2001                 | 32305     | 305328        | 337633 | 2488 | 111,2 | 2237     | 90,4 | 151,0      |
| 2002                 | 30073     | 328820        | 358893 | 2666 | 115,6 | 2307     | 91,6 | 155,6      |
| 2003                 | 30034     | 344868        | 374902 | 2785 | 119,4 | 2333     | 92,0 | 160,7      |
| 2004                 | 29698     | 359990        | 389688 | 2887 | 122,6 | 2354     | 92,4 | 165,5      |
| 2005                 | 27395     | 375967        | 403362 | 3018 | 125,7 | 2401     | 93,2 | 168,0      |
| 2006                 | 30631     | 385439        | 416070 | 3199 | 130,2 | 2457     | 92,6 | 169,4      |
| 2007                 | 52768     | 376677        | 429445 | 3343 | 134,8 | 2481     | 87,7 | 173,1      |

Growth Rate (97-2007)%

61,86

38,97

Yearly Growth Rate %

4,93

3,35



## Electricity production by source (%)

- 26-28% from renewable sources
- Renewable energy is quite high in Flores and S. Miguel (sometimes nealy 50%).



## Geothermal Energy

In 2009 the production of electricity from the two geothermal plants equalled 161 GWh representing 36,5% of the total electricity produced in S. Miguel Island and 19,5% of the total electricity produced in the Azores.



# CO2 emissions

- 3% of Portugal's emissions;
- CO2 emissions grew 59% between 1990 and 2004);
- Main source: oil;
- Main polluting activities: transportation and electricity generation.



## Some Goals (2018):

- Rise the share of renewables in electricity production to 75%
- Rise the share renewables in total primary energy consumption to 40%
- Promote energy efficiency

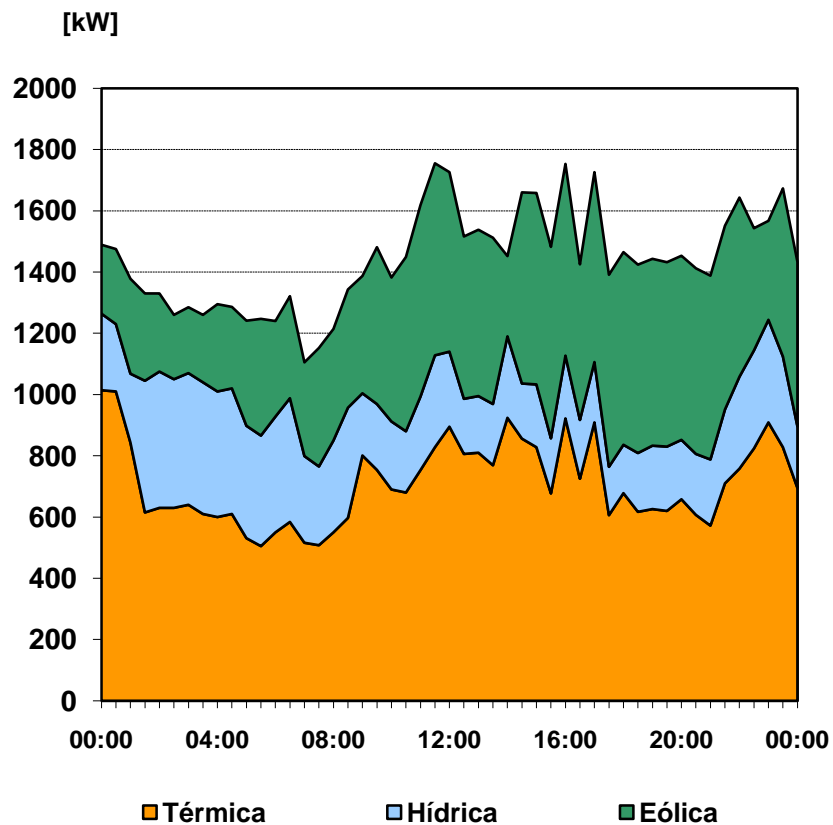


## Tools:

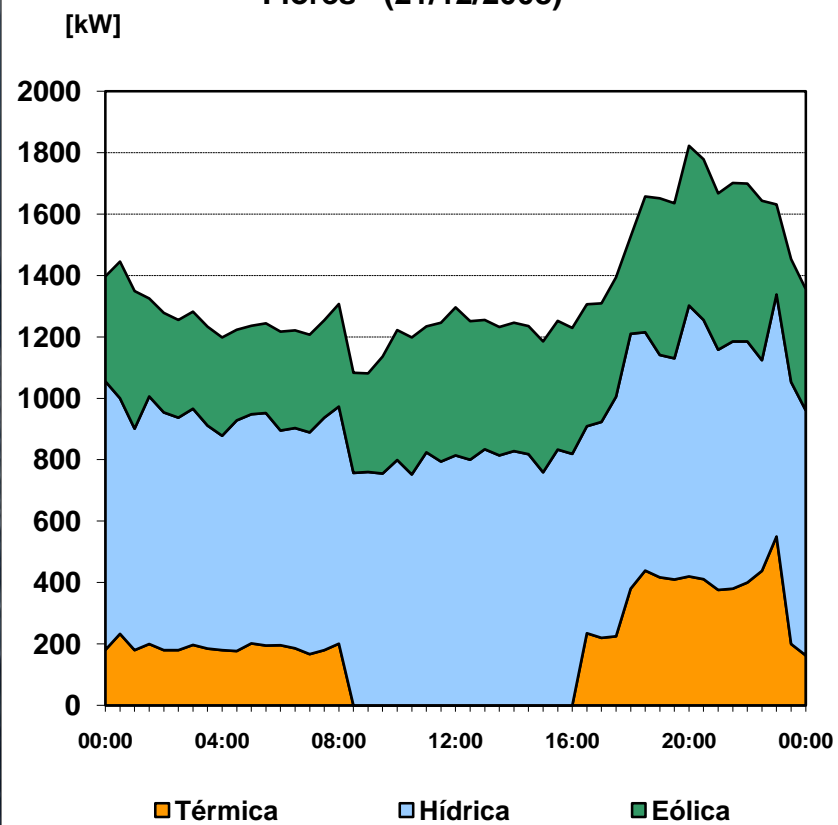
- Investing in renewables (geothermal, wind, hydro, solar...)
- Electric car
- [Buildings certification](#)
- EN 16001
- ISO 50001



Flores - (18/06/2008)



Flores - (21/12/2008)



Thank You!

