



Sustainability in the Dutch Power Sector

Fact Sheet Series

Electricity Generation

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Fuel mix of electricity generation capacity in Europe

1 Introduction

This series of fact sheets is designed to investigate the Dutch power sector and raise public awareness about the sustainability of power companies operating in the Netherlands. The series consists of ten company fact sheets and four thematic fact sheets, for a total of 14. The ten company fact sheets focus on ten of the Netherlands' leading power companies: DELTA, Electrabel, Eneco, E.ON, Essent, Greenchoice, Nuon, Oxxio, RWE, and Windunie. For each company, the fact sheet will contain information on four measures of sustainability: the company's current fuel mix for installed electricity generation capacity in Europe, current fuel mix of electricity supplied in the Netherlands, investments in new generating capacity in Europe, and initiatives to encourage consumers to become more sustainable in their energy use by conserving energy and reducing overall use (demand-side initiatives) in the Netherlands. The thematic fact sheets focus on these same four areas and compare the ten companies' performance in each area. Information for the fact sheets has been gathered from news articles and databases; company sources such as websites, annual reports and CSR reports; and personal interviews with the companies. All of the companies were given and used the opportunity to review a draft of their fact sheet, provide comments, and correct any factual errors. Funding for the fact sheets was provided by Greenpeace. All fact sheets in this series are available on the SOMO website at www.somo.nl.

This fact sheet provides a comparison of the current installed electricity generation capacity fuel mixes of the ten power companies.¹

2 Overall electricity generation capacity in Europe

In terms of overall generation capacity, a clear distinction can be made between the large multinational companies, which have a very large generation portfolio, and the smaller Dutch companies, which operate on a more limited scale. A number of companies taken up in the research own no or very limited generation capacity. These figures include all the European generation capacity of each company.

Table 1: Overall generation capacity (MW)

Fuel type	DEL-TA	Electrabel	Eneco	E.ON	Essent	Green-choice	Nuon	Oxxio	RWE	Windunie
Renewable	52.5	5,208	663.6	9,142	1,009.6	0.0045	144	0	1,348	396
Gas	240	9,075	850	13,203	3,176.3	0	2,465	0	7,098	0
Coal	210	9,512	0	18,205 ²	1,503.4	0	1,499	0	24,819	0
Nuclear	247.5	6,300	0	11,148	242.5	0	0	0	6,295	0
Other	0	1,092	0	4,962	0	0	0	0	4,973	0
Total	750	31,187	1,513.6	56,660	5,931.8	0.0045	4,108	0	44,533	396

3 Percentage of European generation capacity dedicated to renewables

While the scale of operations does affect the relative share of renewable capacity, several differences between companies can still be identified. Of the three large international firms, Electrabel and E.ON have a clear lead over its multinational counterpart RWE. RWE has a mere 3% renewable capacity. Of the larger Dutch companies, Eneco is more sustainable than Essent, Nuon or Delta when it comes to renewables in the generation fuel mix. With 100% wind capacity, Windunie is clearly the most renewable electricity generator active on the Dutch market. Greenchoice also has 100% sustainable generation capacity, but this is such a small amount (45 kW) that it makes it difficult to compare to the others.

Figure 1: Electricity generation capacity in Europe dedicated to renewables, 2007

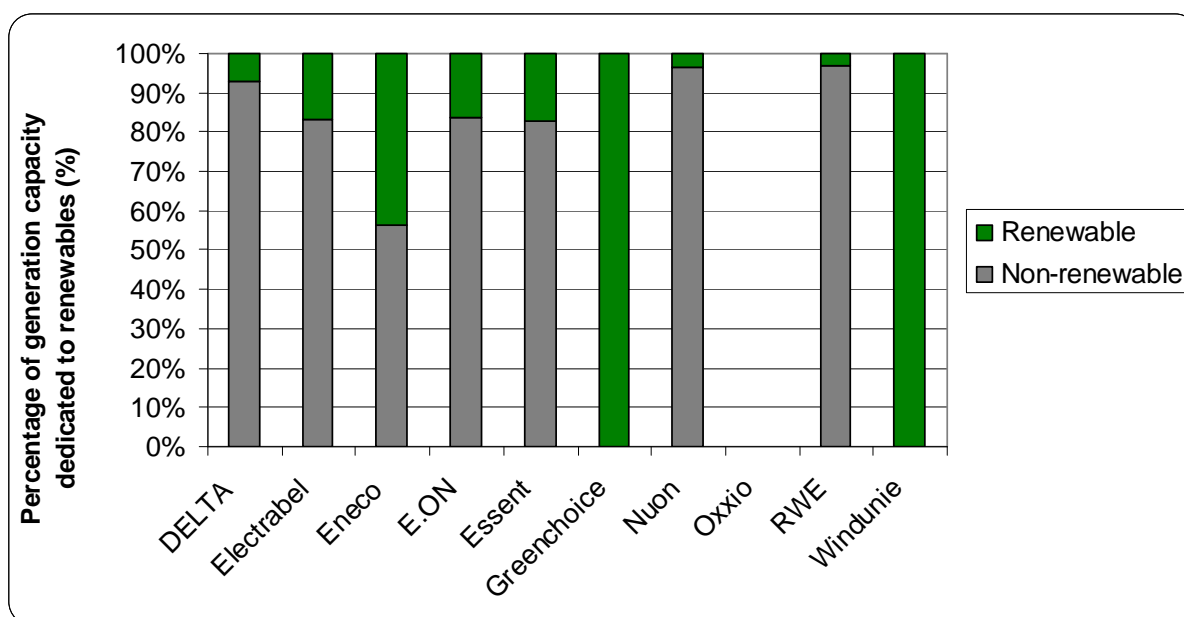


Table 2: Percentage fuel type of installed generation capacity in Europe, by company, 2007

Fuel type (%)	Delta	Electra bel	Eneco	E.ON	Essent	Green choice	Nuon	Oxxio	RWE	Wind unie
Renewable	7.0	16.7	43.8	16.2	17.1	100	3.5	-	3.0	100
Gas	32.0	29.1	56.2	23.3	53.5	0	60.0	-	15.9	0
Coal	28.0	30.5	0	32.1 ³	25.3	0	36.5	-	55.8	0
Nuclear	33.0	20.2	0	19.7	4.1	0	0	-	14.1	0
Other	0	3.5	0	8.7	0	0	0	-	11.2	0

¹ The data and figures found in this fact sheet are based on information in the individual company fact sheets, a draft of which was reviewed and commented on by each company. Visit www.somo.nl for all fact sheets.

² Including lignite.

³ Including lignite.