

Statistics Bulletin

06 Feb 2008

Association of Issuing Bodies

In 2007, increasing environmental awareness among the public has led to companies "greening up" their profiles, and consumers seeking to buy greener electricity,

MEMBERSHIP

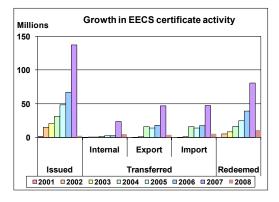
Brussels is applying for, and Wallonia recently gained, membership, while Spain left due to the regulator gaining responsibility for renewable energy guarantees of origin (RES GO). Sweden joined the Disclosure scheme, and Netherlands plans to do so. Several countries are applying for membership of the CHP GO scheme.

MARKET ACTIVITY

The market continues to grow. Annual issuing, international transfers and redemption more than doubled in 2007, while internal transfers grew to nine-fold, driven by redemption of RES GO for disclosure purposes.

Norway and Flanders continued to increase their share of redemptions, joined by France and Germany, while Sweden and Netherlands retained their market share. The major certificate issuing countries remain Norway, Sweden, Finland and Netherlands. The largest exporters are Norway, Sweden and Finland; while major importers are now Netherlands, France, Austria, Germany and Flanders.

The proportion of certificates that were redeemed rose to 59% of those issued, which may be misleadingly low as many RES GO are expected to be redeemed early in 2008.



Technology / energy sources

Hydropower consolidated its pole position with 93% of all issued certificates, most other technologies having virtually ceased to contribute; although wind power still contributes 4% and biomass 4%. Almost all redemptions are hydro (and to a far lesser extent energy crops), at the expense of all other technologies.

MEMBERS

In **Benelux**, *Wallonia* has join the RES GO scheme but may not yet issue certificates. *Flemish* certificate issue and redemption was similar to 2006, while imports increased. *Dutch* redemption continued to grow, issuing was lower, exports were a little larger and imports marginally greater.

Of **Nordic** countries, *Denmark* remains a minor participant, but activity is increasing. *Finland* issued the same and redeemed far less, but remains a major participant, recently commencing import. *Norway* continues to issue, export and redeem certificates more than ever, facilitating very large trades and recently commencing import. *Sweden* issues and redeems more certificates than ever, exporting more and importing considerably more. Nordic market growth is due to change in legislation and practice requiring redemption of RES GO for disclosure relating to 2007 by spring 2008. Many resulting redemptions are expected.

Of the **Mediterranean** countries, the *French* market grows rapidly: international trade and redemption outstripped previous years, with a particularly large transfer in summer. The Italian market is similar to last year, with no international trade but higher redemption. *Slovenia* redeemed some certificates, but was otherwise inactive. *Spanish* issuing and redemption continued until autumn 2007, when many certificates were issued and redeemed. All activity has ceased when RED Electrica left AIB at the end of 2007.

For **central Europe**, *Austria* is reemerging as a major importer, and increasingly importing and redeeming RES GO. While *Swiss* RECS certificate issuing was low this year, redemption is rising and international trade has markedly picked up, perhaps anticipating the arrival of Swiss RES GO. *Germany* has imported and redeemed considerably more certificates than in previous years.

Finally, on the **Atlantic** coast, the *Irish* certificates were issued and exported, but activity ceased in summer. *Portugal* continues to issue similar numbers of certificates as previous years and is now redeeming them, but there has been no international trade.

(all figures 1MWh certificates)

Since 2001:

- ISSUED: 322 million
 TRANSFERRED: 100 million
 REDEEMED: 185 million
 In 2007:
 ISSUED: 137 million
 TRANSFERRED: 47 million
 REDEEMED: 80 million
- In 2008 (so far...):
- ISSUED: 2 million
 TRANSFERRED: 5 million
- REDEEMED: 11 million

In this issue

| Th | e Raw Data | <u>2</u> |
|----|---|----------|
| 0 | Sources of certificates — country | <u>3</u> |
| 0 | Sources of certificates — technology | |
| 0 | Destination of certificates — technology | |
| 0 | Redeemed certificates — technology | |
| Сι | Imulatives | 4 |
| 0 | Issue and redemption | |
| 0 | Realisation of value | |
| 0 | Technology contribution | |
| 0 | Growth | |
| 0 | Trade | |
| 0 | National participation | |
| Eu | ropean activity | 7 |
| 0 | Austria | <u>+</u> |
| 0 | Belgium | |
| 0 | Denmark | |
| 0 | Finland | |
| 0 | France | |
| 0 | Germany | |
| 0 | Ireland | |
| 0 | Italy | |
| 0 | Netherlands | |
| 0 | Norway | |
| 0 | Portugal | |
| 0 | Slovenia | |
| 0 | Spain | |
| 0 | Sweden | |
| 0 | Switzerland | |
| | | |

2008 events

<u>24</u>



Statistics Bulletin

THE RAW DATA-BY COUNTRY

| | | | | | | | | Issuing & Red | Issuing & Redemption for all technologies | echnologies | | | | | | | | | |
|---|---------------------|-------------|-------------|-----------|------------|-------------|------------|---------------|---|-------------|------------|------------|------------|-----------|-------------|------------|-----------|-----------|----------|
| Issued Redented Issued Issued <th></th> <th>Tota</th> <th>1</th> <th>200</th> <th>8(</th> <th>200</th> <th>2</th> <th>200</th> <th>90</th> <th>20</th> <th>05</th> <th>201</th> <th>4</th> <th>200</th> <th>3</th> <th>200</th> <th>2</th> <th>2001</th> <th>-</th> | | Tota | 1 | 200 | 8(| 200 | 2 | 200 | 90 | 20 | 05 | 201 | 4 | 200 | 3 | 200 | 2 | 2001 | - |
| 7.263.341 1.7.700.66 1.8.61.66 2.8.61.68 2.8.61.68 2.8.61.66 3.1.6.111 3.1.2.1.46 6.1.22.7.00 1.8.60.56 9.1.7.00 1.8.60.56 9.1.7.00 1.8.60.56 9.1.60 1.8.60.56 9.1.60 1.8.60.56 9.1.60 1.8.60.56 9.1.60 1.8.60.56 9.1.60 1.8.60.56 9.1.60 1.8.60.70 1.8.60.70 9.1.60 1.8.60.70 9.1.60 1.8.60.70 9.1.60 1.8.60.70 9.1.6 | | lssued | Redeemed | Issued | Redeemed | lssued | Redeemed | Issued | Redeemed | | Redeemed | | Redeemed | | | | Redeemed | Issued R | Redeemed |
| 1 | Austria | 7,625,351 | 17,709,668 | | 7 | 285,885 | 2,851,824 | 316,911 | 4,602,618 | 1,560,474 | 3,122,146 | 2,452,748 | 6,129,706 | 1,950,584 | 918,704 | 1,057,599 | 84,669 | 1,150 | |
| 2.419.43 1.7.106 0 1.136.66 0.656.45 1.7.307 1.116.76 00 | Belgium Brussels | | | | | | | | | | | | | | | | | | |
| (113.30) (17.16.06) (10.000) (11.3.42) (12.3.4) (17.2.4) (17.000) | Belgium Flanders | 2,419,943 | 12,076,596 | | | 1,185,546 | 8,635,485 | 1,234,397 | 3,441,111 | | | | | | | | | | |
| 1 | Belg & Lux RECS | 113,390 | 1,716,605 | | 100,000 | | 671,224 | | 437,651 | | 450,730 | | 50,000 | | 7,000 | 59,150 | | 54,240 | |
| 1 1 1 1 1 1 1 1 1 2 1 3 | Belgium Wallonia | | | | | | | | | | | | | | | | | | |
| 4 4 6 7 5 5 6 6 6 7 | Switzerland | 1,887,025 | 1,016,592 | | | 118,242 | 162,986 | 820,502 | 215,399 | 59,782 | 495,653 | 512,442 | 102,924 | 276,837 | 35,530 | 99,220 | 4,100 | | |
| 1 1315 23156 14,326 14,326 1004.623 182.062 52.98.82 56.13 24.713 74.733 74.733 74.733 74.733 74.233 | Germany | 48,351 | 6,481,361 | | 501,302 | | 5,289,723 | | 616,653 | | 25,036 | 5,963 | 48,647 | 41,789 | | 450 | | 149 | |
| 5 125.561 2.605.512 0 1771.213 1771.213 1771.213 1771.213 1771.213 1771.213 1771.216 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 4.66.51 5.34.376 5.34.376 5.36.36 7.11.2.961 5.34.376 7.66.276 5.46.61 5.46.71 5.62.56 5.40.30 7.55.26 7.56.276 5.46.61 5.47.56 5.46.76 7.56.276 5.46.75 7.56.276 5.46.75 7.56.76 5.46.75 7.56.76 5.46.75 7.56.76 5.46.75 7.56.76 5.46.75 7.56.76 5.46.75 7.56.76 5.46.75 7.56.76 5.46.75 7.56.76 5.46.75 7.56.76 5.46.75 7.56.76 5.26.56 7.56.76 7.56.76 7.56.76 7.56.76 7.56.76 7.56.76 7.56.76 7.56.76 7.56.76 7.56.7 | Denmark | 3,195,821 | 231,564 | | 14,324 | 1,004,623 | 192,062 | 529,882 | 564 | 631,304 | | 777,965 | | 24,686 | 24,614 | 74,233 | | 153,128 | |
| 44,960.061 11,165.053 3,322 7,171,364 8,323,565 1,112,145 6,734,147 2,254,194 8,206,161 1,412,30 7,177,954 4,122,610 5,40,401 7,177,954 17,7054 17,064 17,064 1,123,91 86,757 4,560,61 1,412,30 7,177,954 4,122,610 5,40,401 7,177,954 17,7054 17,105 11,01 4,93,657 4,13,667 2,48,78 1,42,991 86,757 4,566 7,177,954 17,105 17,105 11,01 4,13,667 4,13,667 4,13,567 4,13,567 4,152,61 86,757 4,152,61 4,152,71 4,152,71 4,152,716 4,152,716 4,152,716 4 | Spain | 5,125,591 | 2,605,512 | | | 1,771,213 | 1,719,744 | 604,270 | 571,403 | 126,319 | 174,334 | 901,135 | 93,400 | | 46,631 | 534,378 | | 392,989 | |
| 3.673 683 11.72.9.61 11.20.961 11.406.600 10.366.326 960.346 11.903 11.903 14.3662 21.4,876 14.2,991 66.757 4.550 11.163 | Finland | 44,960,081 | 11,185,053 | | 3,927 | 7,900,171 | 682,821 | 8,333,595 | 1,112,145 | 6,734,247 | 2,254,194 | 8,260,681 | 1,412,330 | 7,177,954 | 4, 192, 610 | 5,840,401 | 1,527,025 | 713,032 | 1 |
| 1 | France | 3,679,683 | 11,729,961 | | | 1,408,699 | 10,356,326 | 960, 349 | 610,996 | 719,430 | 461,004 | 443,662 | 214,878 | 142,991 | 86,757 | 4,552 | | | |
| 11 11< | Greece | | | | | | | | | | | | | | | | | | |
| 1 | Ireland | 11,163 | | | | 11,163 | | | | | | | | | | | | | |
| 3.336/0 1.831.908 0.831.670 1.288.271 928.670 1.185.323 673.660 418.307 241.048 7.3970 7.6.873 66.549 10.667 300.281 2.338.647 54.766.116 0.0 1.023.145 6.432.883 16.615.270 7.382.399 14.306.506 6.689.885 14.669.822 2.926.947 7.64.71 26.75.76 25.05.56 20.30.55 1.349.071 28.106.116 0.0 1.023.148 1.616.720 7.382.309 14.306.56 6.689.885 14.569.822 2.926.947 7.817.149 7.57.76 25.03.65 1.349.071 28.106 1.317.37 1.430.657.149 1.769.566 6.689.885 1.4569.822 2.926.947 7.517.149 7.55.706 5.60.556 5.60.556 5.60.567 5.60.567 5.60.567 2.61.062 5.60.556 5.60.566 5.60.566 5.60.566 5.60.566 5.60.566 5.60.566 5.60.566 5.60.566 5.60.566 5.60.566 5.60.566 5.60.566 5.60.767 7.61.71.49 7.61.71.49 7.61.71.49 | Iceland | | | | | | | | | | | | | | | | | | |
| 23,885,647 54,766,116 1,623,145 6,432,838 16,615,70 7,382,389 14,306,508 6,689,885 14,606,852 2,206,947 7,54,276 250,556 7,792,276 250,556 7,792,276 250,556 7,792,276 250,556 7,792,276 250,556 2,00,566 2,00,566 2,00,56< | Italy | 3,339,670 | 1,831,938 | | | 1,288,221 | 928,675 | 1,185,323 | 573,660 | 418,397 | 241,048 | 73,970 | 76,873 | 59,549 | 10,557 | 302,814 | 1,125 | 11,396 | |
| 134,344,617 28,046,762 2,057,648 8,454,903 81,574,808 15,626,614 2,711,968 14,506,286 1,101,274 5,625,516 827,342 7,817,149 725,706 3,500,555 1 2,390,575 2,111,968 1,101,274 5,625,516 827,342 7,817,149 725,706 3,500,555 1 2,390,480 1,235 5,250 173,857 5,250 173,857 8,602 5,625,516 7,617,149 725,706 3,500,556 1 2,390,480 1,330 8,707 2,429 9,749,209 16,589,875 8,802 5,936 2,040,632 2,106,088 3,160,712 1 3,799,763 1,824,297 34,67 1,799,485 1,799,485 1,799,485 1,799,48 1,702,08 1 3,799,763 1,854,729 3,1652,719 1,659,475 1,670,492 2,106,083 3,160,714 1 3,799,763 1,859,475 16,599,485 1,799,485 1,670,712 1,670,722 2,106,083 1,617,726 1 | Netherlands | 23,885,647 | 54,766,116 | | 1,623,145 | 6,432,838 | 16,615,270 | 7,382,389 | 14,306,508 | 6,689,885 | 14,569,852 | 2,926,947 | 7,542,276 | 250,536 | 107,962 | 203,052 | 1,103 | | |
| 1 339,071 5,250 1,430 22,203,491 9,749,209 6,520,10 29,736 2,10,70 20,001 20,001 20,000 20, | Norway | 134,844,617 | 28,916,762 | 2,057,648 | 8,454,993 | 81,574,809 | 12,636,718 | 19,762,654 | 2,711,968 | 14,506,286 | 1,101,274 | 5,625,516 | 827,342 | 7,817,149 | 725,706 | 3,500,555 | 2,458,761 | | |
| 349,071 5,250 1,430 123,583 5,250 173,567 5,001 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,201 60,202 2106,068 2106,028 316,071 200 200,012 200,012 2106,028 316,071 200,014 200,014 200,012 2106,028 316,071 200,014 200,014 200,014 200,014 200,014 200,014 200,014 200,016 200,014 | Poland | | | | | | | | | | | | | | | | | | |
| 87 (075,242 33.034,808 (173,797 34,067,611 9,732,466 25,233,491 9,749,209 16,589,875 88,602 5,832,690 29,666 2,106,032 2,106,032 3,160,710 3,195,763 1,824,297 1,824,297 1,01 2,106,032 <th>Portugal</th> <th>349,071</th> <th>5,250</th> <th>1,430</th> <th></th> <th>123,583</th> <th>5,250</th> <th>173,857</th> <th></th> <th>50,201</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | Portugal | 349,071 | 5,250 | 1,430 | | 123,583 | 5,250 | 173,857 | | 50,201 | | | | | | | | | |
| 3.799.763 1.824.237 9.1.63 3.1.653 3.1.653 3.1.653 3.1.653 1.769.182 3.600.714 9 <th>Sweden</th> <th>87,075,242</th> <th>33,034,808</th> <th></th> <th>173,797</th> <th>34,067,611</th> <th>19,732,466</th> <th>25,293,491</th> <th>9,749,209</th> <th>16,589,875</th> <th>88,602</th> <th>5,832,690</th> <th>59,596</th> <th></th> <th>2, 106, 088</th> <th>3,150,720</th> <th>1,125,050</th> <th>100,223</th> <th></th> | Sweden | 87,075,242 | 33,034,808 | | 173,797 | 34,067,611 | 19,732,466 | 25,293,491 | 9,749,209 | 16,589,875 | 88,602 | 5,832,690 | 59,596 | | 2, 106, 088 | 3,150,720 | 1,125,050 | 100,223 | |
| 00,168 00,168 0.0168 0.017,168 0.017,060 0.017,128 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,260 0.017,270 0.013,33,371 0.012,320 0.014,41,433 0.017,7904 0.017,280 | Slovenia | 3,799,763 | 1,824,297 | | | | 31,653 | 31,653 | 23,462 | 167,396 | 1,769,182 | 3,600,714 | | | | | | | |
| 90,158 90,168 91,014,033 91,014,033 91,014,033 91,016,014 91,016 | Turkey | | | | | | | | | | | | | | | | | | |
| 322,450,567 185,132,083 2,059,078 10,871,489 137,172,604 80,512,227 66,629,273 38,973,347 48,253,596 24,753,055 31,414,433 16,567,972 20,577,994 8,262,159 14,917,282 557,505 5157,592 52,577,994 8,262,159 14,917,282 557,505 5157,595 515 | UK | 90,158 | | | | | | | | | | | | | | 90,158 | | | |
| 57% 53% 58% 53% 53% | All countries | 322,450,567 | 185,132,083 | 2,059,078 | 10,871,489 | 137,172,604 | 80,512,227 | 66,629,273 | 38,973,347 | 48,253,596 | 24,753,055 | 31,414,433 | 16,557,972 | | 8,262,159 | 14,917,282 | 5,201,833 | 1,426,307 | 1 |
| | Percentage redeemed | | 57% | | 528% | | 29% | | 58% | | 51% | | 53% | | 40% | | 35% | | %0 |

All certificates are 1MWh. As metering data is the basis for issuing certificates, there is always delay in gaining accurate statistics for a particular month, so the most recent quarter is understated and corresponding information should be treated with care. International trade statistics continue to be misleading due to the practice of redeeming certificates in one country and transferring the renewable benefit over national borders by means of redemption statements rather than via electronic certificate transfer.



Statistics Bulletin

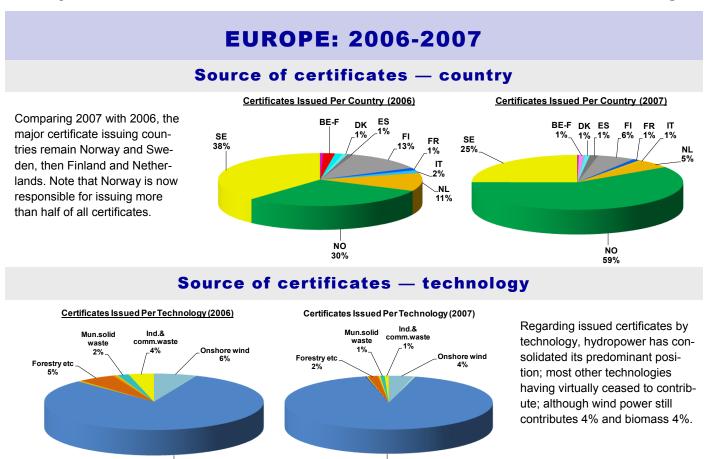
THE RAW DATA—BY TECHNOLOGY

| | | | | | | | Issuing & ret | Issuing & redemption for all countries | l countries | | | | | | | | | |
|----------------|--------------------------|-------------|-----------|------------|-------------|------------|---------------|--|-------------|------------|------------|------------|------------|-----------|------------|-----------|-----------|--------|
| | Report for all countries | l countries | 2008 | 8 | 2007 | 2 | 2006 | 6 | 2005 | 5 | 2004 | | 2003 | 3 | 2002 | 2 | 2001 | |
| | lssue | Redeem | Issued | Redeemed | Issued | Redeemed | Issued | Redeemed | Issued F | Redeemed | Issue R | Redeem | Issue F | Redeem | Issue R | Redeem | lssue | Redeem |
| Onshore wind | 15,400,670 | 9,293,789 | 16,956 | 262,218 | 5,339,100 | 3,849,728 | 4,151,110 | 2,231,463 | 3,260,994 | 1,945,381 | 2,131,530 | 804,795 | 309,845 | 153,738 | 166,708 | 46,465 | 24,427 | 4 |
| Offshore wind | 423,359 | 986'66 | | 18,000 | 340,711 | 76,266 | 68,202 | | 1,542 | 2,995 | 9,636 | 2,539 | 4 | 186 | 2,008 | | 1,256 | |
| Photovoltaic | 13,840 | 9,192 | | 145 | 3,432 | 3,039 | 4,535 | 3,095 | 4,125 | 2,895 | 1,735 | 18 | 13 | | | | | |
| Themal | ę | + | | | + | 1 | 2 | | | | | | | | | | | |
| Hydropower | 260,817,915 | 138,048,666 | 2,042,122 | 10,335,905 | 126,557,306 | 68,775,057 | 54,294,209 | 30,059,778 | 38,080,648 | 16,185,307 | 19,947,178 | 7,995,473 | 11,967,734 | 1,759,895 | 7,325,326 | 2,937,251 | 603, 392 | |
| Onshore tidal | | | | | | | | | | | | | | | | | | |
| Offshore tidal | | | | | | | | | | | | | | | | | | |
| Onshore wave | | | | | | | | | | | | | | | | | | |
| Offshore wave | | | | | | | | | | | | | | | | | | |
| Geothermal | 396,646 | 209,817 | | | 135,130 | 106,919 | | | 35,627 | 36,081 | 53,431 | 55,175 | 6,434 | 10,517 | 166,024 | 1,125 | | |
| Energy crops | 993,094 | 4,236,774 | | 1,043 | 351,614 | 2,892,216 | 367,016 | 1,149,815 | 68,909 | 70,643 | 59,023 | 56,457 | 66,513 | 52,078 | 36,033 | 14,522 | 43,986 | |
| Forestry etc | 32,342,204 | 25,557,957 | | 172,048 | 2,067,167 | 2,819,419 | 3,614,498 | 2,708,333 | 3,435,969 | 4,579,255 | 7,767,140 | 6,917,876 | 7,945,838 | 6,201,910 | 6,850,232 | 2,159,116 | 661,360 | |
| Landfill gas | 1,014,505 | 427,935 | | 17,621 | 289,264 | 209,357 | 354,006 | 108,838 | 242,856 | 45,974 | 105,368 | 36,968 | 3,890 | 742 | 19,121 | 8,435 | | |
| Sewage gas | 36,205 | 35,577 | | | | | 996 | 4,825 | 3,646 | 546 | 6,364 | 5,025 | 1,075 | 25,181 | 24,154 | | | |
| Other biogas | 473,348 | 163,668 | | 6,735 | 295,486 | 103,515 | 141,715 | 35,603 | 26,405 | 16,316 | 9,112 | 1,499 | 630 | | | | | |
| MSW | 4,126,028 | 2,274,113 | | 18,200 | 918,827 | 976,864 | 1,133,051 | 705,196 | 943,379 | 284,092 | 536,345 | 283,780 | 257,630 | 3,026 | 244,910 | 2,955 | 91,886 | |
| IB&CW | 6,412,751 | 4,774,608 | | 39,574 | 874,567 | 699,846 | 2,499,963 | 1,966,401 | 2,149,496 | 1,583,570 | 787,571 | 398,367 | 18,388 | 54,886 | 82,766 | 31,964 | | |
| Total | 322,450,567 | 185,132,083 | 2,059,078 | 10,871,489 | 137,172,604 | 80,512,227 | 66,629,273 | 38,973,347 | 48,253,596 | 24,753,055 | 31,414,433 | 16,557,972 | 20,577,994 | 8,262,159 | 14,917,282 | 5,201,833 | 1,426,307 | 1 |
| | | | | | | | | | | | | | | | | | | |

The tables above display issue and redemption statistics for each year to date, and for 2001-8 in total. These, and the following charts, show that volumes issued, transferred and redeemed continue to increase at a far greater rate — more than double — during 2007 than in previous years.



Page 4

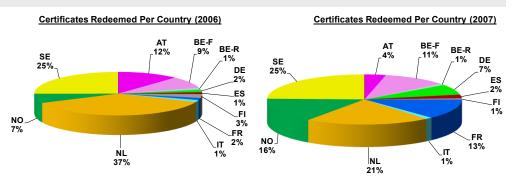


Destination of certificates — country

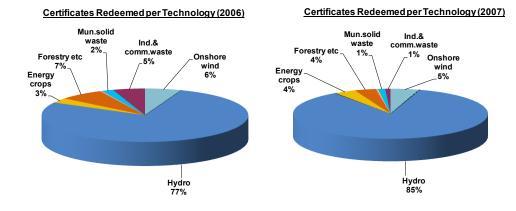
Hydro 92%

Comparing 2006 with 2007, but for redeemed certificates, Norway and Flanders have continued to increase their share joined by two newcomers - France and Germany while Sweden has retained the same share of the market. Netherlands continues to redeem the same number of certificates, while Austria has having virtually ceased to do so this year.

Hydro 81%



Redeemed certificates — technology



Again comparing 2006 with 2007, but this time for redeemed certificates by technology, hydro continues to increase its market share along with energy crops, at the expense of every other technology.



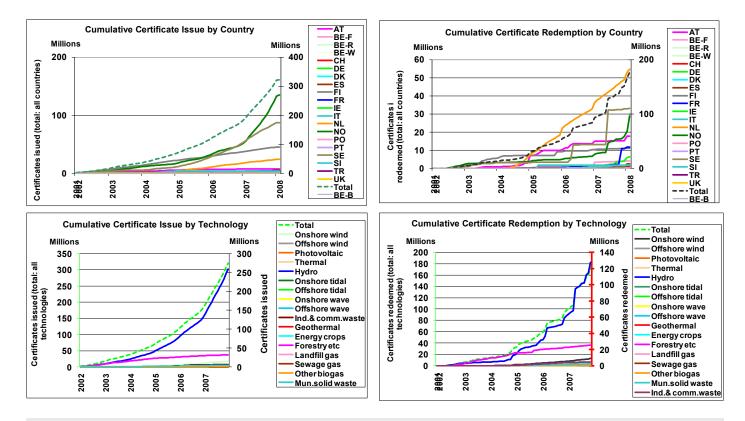
2001-2007: CUMULATIVES

Cumulative issue

Cumulative redemption

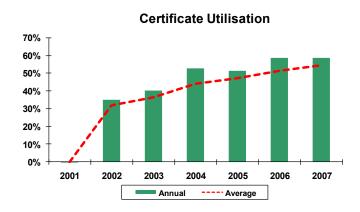
Overall, issuing and redemption are increasing more rapidly as guarantees of origin are increasingly used for disclosure purposes in Nordic countries, and also as certificates are used for similar purposes in Germany, Austria, Flanders and France.

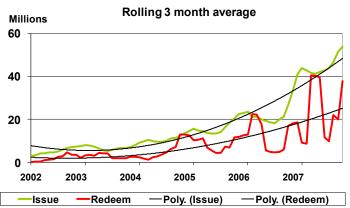
The volume of hydro issued and redeemed continues to increase substantially at the expense of everything else (except wind and forestry).



Realisation of value

The proportion of certificates that were redeemed has continued to rise to 57% overall, and 59% during 2007 — although this may be misleadingly low, as a large number of guarantees of origin are expected to be redeemed in early 2008 by Nordic suppliers, wishing to use them as evidence for disclosure purposes.



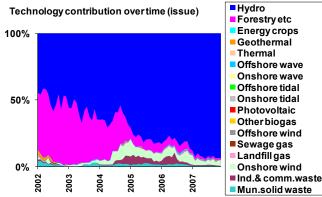


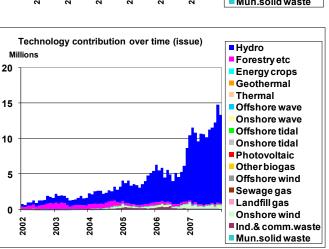
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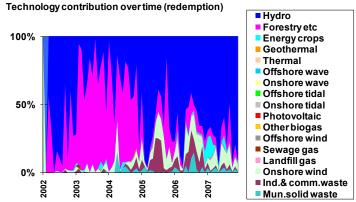


Technology contribution

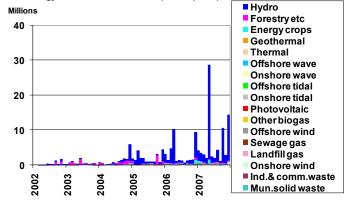
Another way of considering the changing trends in technology is to consider the blend for which certificates are being issued and redeemed at any point in time. The following graphs show that the significant growth in hydropower certificates is not wholly matched by the market for these certificates – although around 93% of issued certificates are for hydropower, only 85% of the re-





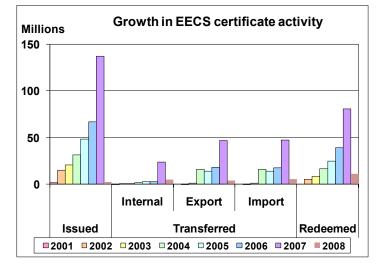


Technology contribution over time (redemption)

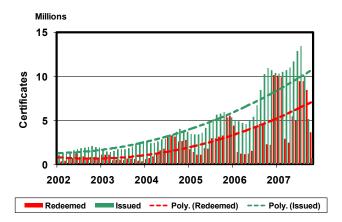


Growth

Concerning the growth in issuing, transfers and redemption, it is interesting to see that transfers are now rising significantly (nearly 9 times as many certificates were transferred in 2007 as there were in 2006), having remained fairly consistent for the last three



Rolling 3-monthly average Certificate Activity



years, at a time while issuing, international transfers and redemption have doubled year on year.

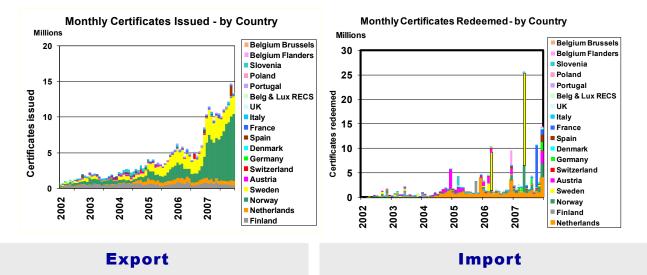
Rolling three month averages show that the market continues to grow at a cyclical and increasing, rate.

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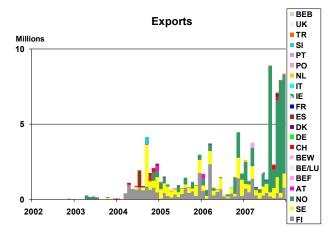


TRADE

The following graphs summarise monthly issuing and redemption, clearly showing the influence on international trade of the producing countries - Norway, and to a lesser extent Sweden, Finland and the Netherlands; and of the consuming countries - Netherlands (the largest by far); Sweden, Finland and Norway (for domestic disclosure); and then Austria, France, Germany & Flanders.



The largest exporters remain Norway (by far) and then Sweden and Finland; while Netherlands, Austria, Flanders and increasingly Germany remain the major importers, joined this year by France – which is making its presence felt, with major imports over the summer overshadowing all other importers.

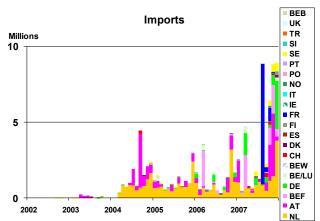


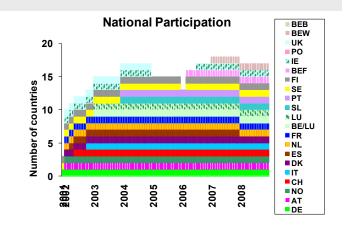
NATIONAL PARTICIPATION

Membership continues to grow, with Brussels now having applied for membership; and Wallonia recently being granted membership.

Sweden has now joined the Disclosure scheme, and Netherlands plans to do so in 2008. Several countries are applying for membership of the CHP GO scheme.

(Note: the short gaps are between Fingrid and Svenska Kraftnat ceasing membership, and Grexel taking over their roles; and Ireland temporarily ceasing membership.)



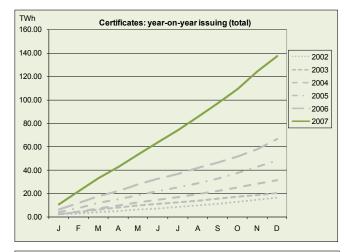




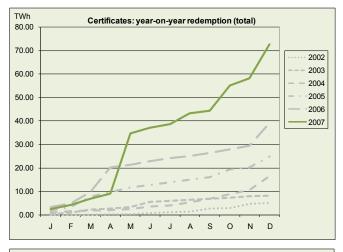
EUROPEAN ACTIVITY

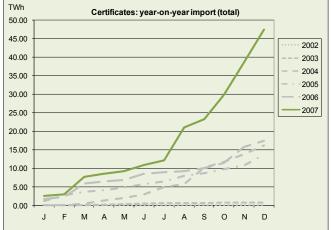
Issuing, international transfers and redemption all continue to grow increasingly this year, at a rate unmatched in previous yearsin fact, activity in all areas has more than doubled that of 2006.

This has been driven by the Nordic countries requiring the redemption of guarantees of origin as evidence for disclosure purposes, and by increasing interest from Austria and Germany.









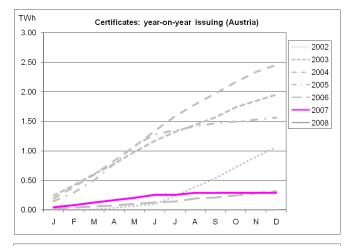


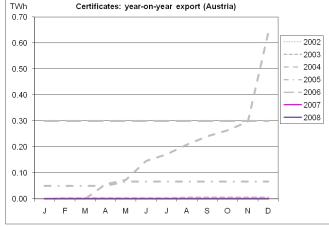
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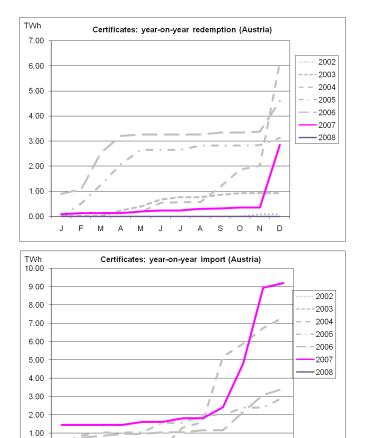
COUNTRY REPORTS Austria

Austria is emerging once more as a major importer, and is increasingly using its guarantee of origin database (which will be transferred to an EECS database when connected to the HUB).

In the meantime, it is importing (mostly from Norway) and redeeming certificates.







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For more information, contact: Christian Schönbauer E-Control (Issuing body for Austria) Tel: +43 (1) 24724 707 Email: christian.schoenbauer@e-control.at

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Belgium (Brussels)

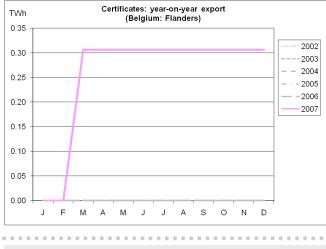
Brugel (the guarantee of origin issuing body for Brussels) is currently considering membership of AIB, with the intention of commencing issuing during 2008.

Belgium (Flanders)

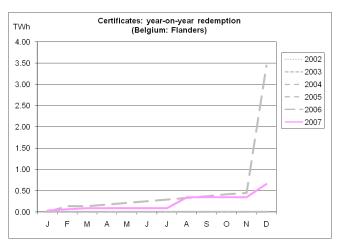
Certificate issue has been broadly the same as last year, and redemption - which will not be reported for a while - is likely to be similar.

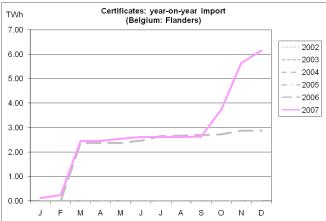
Imports have been up on last year, originating mostly from the Nordic countries, but for the first time there have been limited exports. The ongoing redesign of the registry will result in better data being made available soon.





For more information, contact: **Thierry von Craenenbroeck** VREG (Issuing body for Flanders) Tel: +32 (0) 2 553 13 59 Email: thierry.vancraenenbroeck@vreg.be





Belgium (Wallonia)

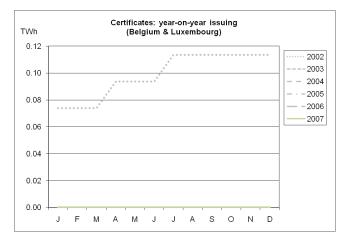
Wallonia has now been granted membership of the RES GO scheme, on condition that (until permitted by the PRO) it will not issue EECS certificates for energy for which any other certificate will be issued (this specifically relates to Walloon support certificates).

For more information, contact: **Pierre-Yves Cornélis** CWaPE (Issuing body for Wallonia) Tel: +32 (0) 81 33 08 14 Email: pierre-yves.cornelis@cwape.be

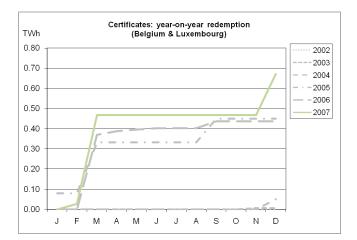


Belgium & Luxembourg (RECS)

RECS activity, as expected, virtually ceased with the promise of Wallonia commencing operations. However, the delay in Wallonia commencing issuing (due to issues surrounding the accommodation into EECS of Wallonian support certificates) has led to renewed import and redemption activity.









 For more information, contact:

 Paul Verhaegen

 eCERTe (RECS Issuing body for Belgium & Luxembourg)

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 +32 (2217) 5868

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 paul.verhaegen@3e.be



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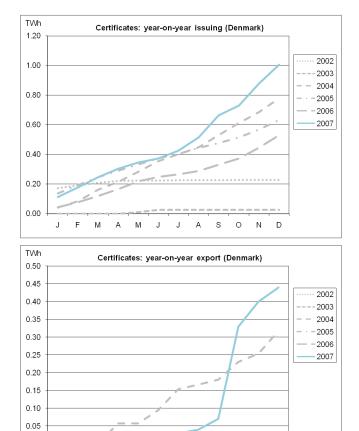
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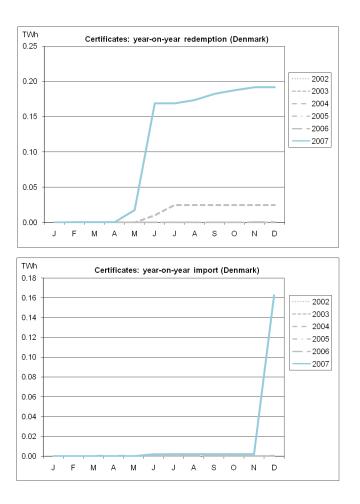
Denmark

Denmark continues to be a minor participant in the market, but activity in all areas is now increasing to the extent that Denmark has recently commenced importing, exporting and redeeming certificates.

This appears to be due to last year's changes in legislation requiring the redemption of guarantees of origin as evidence of consumption of renewable electricity. The deadline for this redemption is April 2008, when redemption volumes are expected to rise significantly.

It has also been stimulated by increased public interest in environmental matters, such that traders as well as producers are now interested in account-holding; and companies are interested in improving their environmental footprint.





For more information, contact: Louise Rønne Energient.dk (Issuing body for Denmark) Tel: +45 7622 4439 Email: Iro@energinet.dk



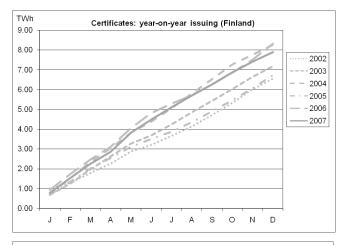
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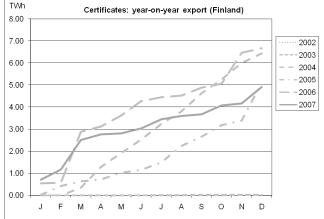
Finland

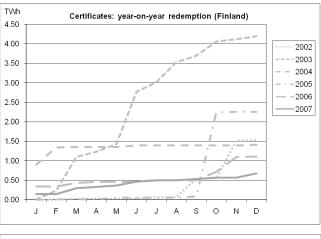
During 2007, Finland issued broadly the same as in previous years, but redeemed far less than its usual large number of certificates. However, it still remains a major participant.

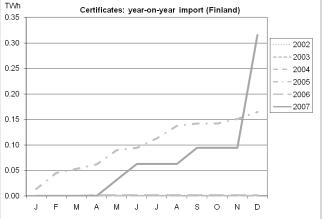
While Finland is exporting (to Flanders and Netherlands) close to the same as in previous years, it has recently commenced importing certificates.

A major factor in market behaviour has been last summer's update to the recommendations of the association of electricity producers. This clarifies the treatment of energy source disclosure, recommending guarantees of origin be redeemed as evidence of the consumption of renewable electricity. Given that it will naturally take time for these provisions to be implemented, the major impact will probably be seen during 2008. The deadline for redemptions for 2007 is sometime in spring 2008, when redemption volumes are expected to rise substantially.









For more information, contact: Marko Lehtovaara Grexel (Issuing body for Finland) Tel: +358 (9) 251 22211 Email: marko.lehtovaara@grexel.com



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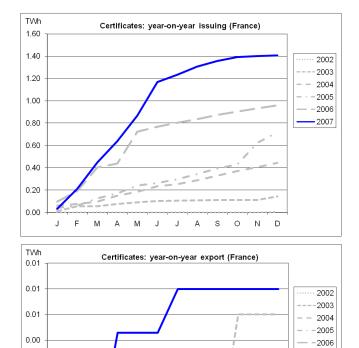
France

The French market continues to grow rapidly, with international trade and redemption far outstripping that of previous years – and of many other members. At present, there are no details of the reasons for this huge growth in demand: it is hoped that the will be available by the next issue of this bulletin.

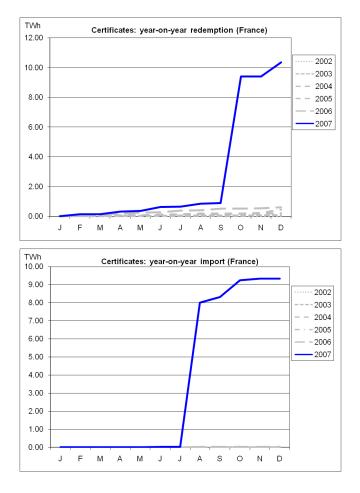
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For more information, contact: **Diane Lescot Observ'ER** (Issuing body for France) Tel: +33 1 44 18 0080 Email: diane.lescot@energies-renouvelables.org



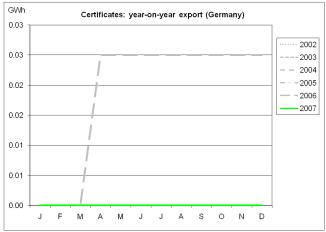
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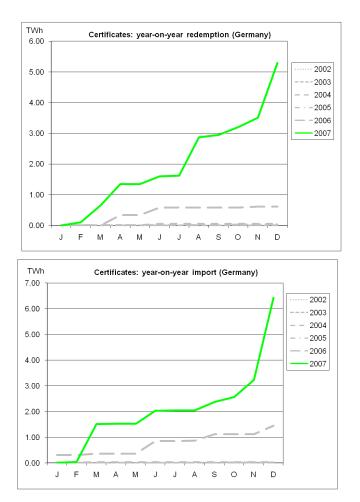
Germany

Germany imported and redeemed large numbers of certificates during 2007, well in excess of the numbers experienced in previous years. The majority of these appear to have originated in Norway and Sweden.

The increase in demand has been brought about by increased public interest in environmental matters. This has resulted in companies wishing to improve their environmental footprint; and in consumers seeking to buy electricity with a larger renewable component than that provided under the renewable energy law (EEG), which covers most renewable energy produced in Germany.







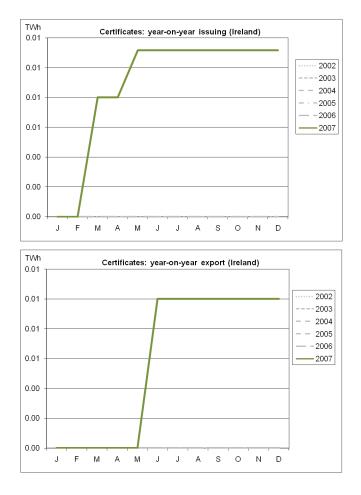
For more information, contact:Christof TimpeOeko-Institut (Issuing body for Germany)Tel:+49 (7614) 52 9533Email:c.timpe@oeko.de

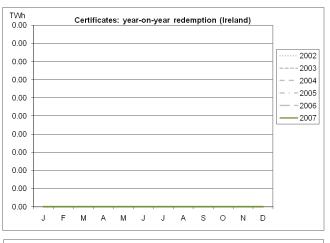


Ireland

The Irish market opened early in the summer of 2007, certificates being issued and exported, but activity ceased shortly afterwards. It is hoped that 2008 will see further activity in Ireland.

Following the commencement of the Single Electricity Market (both Northern Ireland and the Republic of Ireland) late in 2007, Ireland is now paying serious attention to what it has to set up under the RE and CHP Directives on GoO. It is likely that some action will follow in the coming months but the competent body has yet to be appointed.







For more information, contact: Edmund Everson GCC (Issuing body for Ireland) Tel: +44 1494 432323 Email: ed everson@green-certificates.co.uk



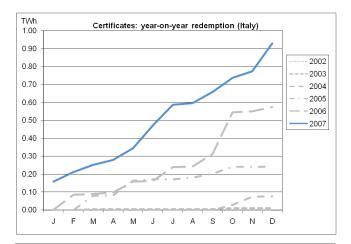
Italy

Issuing in 2007 was similar in volume and profile to 2006, but redemption was considerably higher.

There were no international transfers (but see Switzerland).









For more information, contact: Natascia Falcucci **GSE** (Issuing body for Italy) Tel: +39 (06) 8011 4827 Email: natascia.falcucci@gsel.it



Netherlands

During 2007, redemption continued to grow at around the same rate as 2006, although issuing was a little lower.

Exports were proportionately larger than in previous years, although still fairly small in volume; while imports were marginally greater. Imported certificates originated mostly in the Nordic countries.

CertiQ has just commenced the process of gaining AIB approval for implementation of the CHP GO and Disclosure schemes, which will inevitably lead to increased volumes later in the year.

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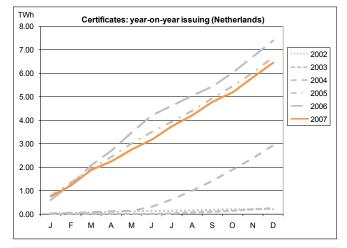
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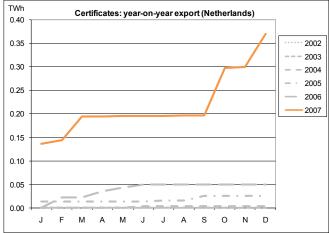
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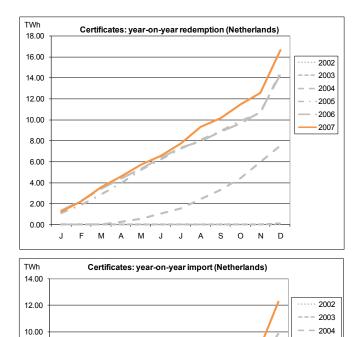
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For more information, contact: Gineke van Dijk CertiQ (Issuing body for Netherlands) Tel: +31 (26) 373 1754 Email: g.v.dijk@certiq.nl



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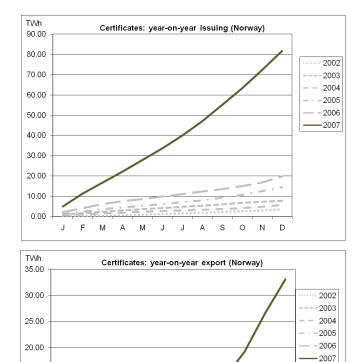
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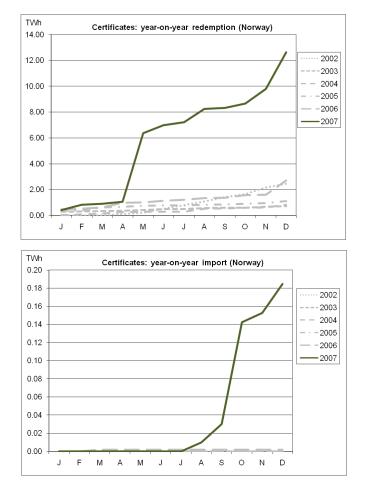
Norway

Norway continues to issue, export (to Germany, France, Austria, Sweden, Flanders and the Netherlands) and redeem certificates at a far higher rate than ever before, and has recently commenced importing certificates.

One reason for the substantial increase in issuing is the registration of all large hydro early in 2007.

A major factor in market behaviour has been last year's changes to legislation. These require evidence of the consumption of renewable energy to be provided by means of the redemption of guarantees of origin. The deadline for redemptions for 2007 is mid-February 2008, when redemption volumes are expected to rise substantially. At this point, the residual mix will also be calculated .





For more information, contact: Ulf Moller Statnett (Issuing body for Norway) Tel: +47 (2252) 7304 Email: ulf.moller@statnett.no



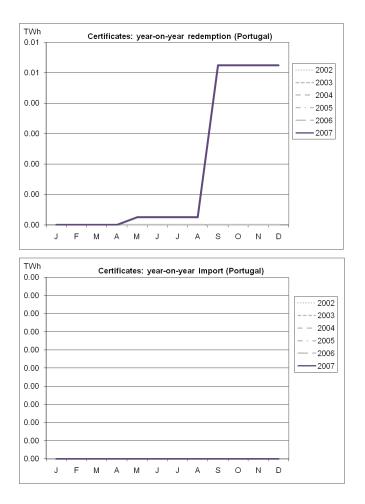
Page 20

Portugal

Portugal continues to issue around the same number of certificates as in previous years, and is now redeeming certificates. However, there has been no international trade.







For more information, contact: Pedro Cabral REN (Issuing body for Portugal) Tel: +351 (220) 012 416 Email: pedro.cabral@ren.pt

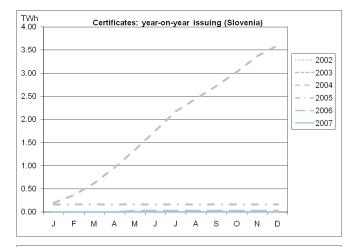


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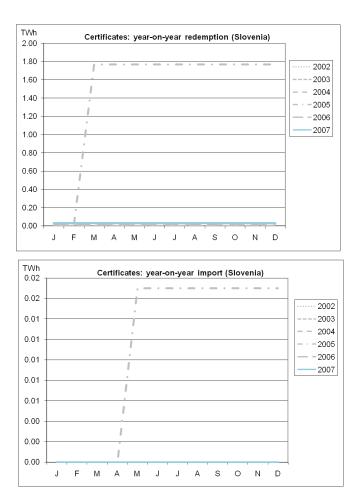
Slovenia

Slovenia has redeemed a small number of certificates, but has otherwise been inactive for the past year or so.

It is understood that Slovenia intends to implement guarantee of origin schemes in compliance with the EECS model.







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 Slovenian Energy Agency (Issuing body for Slovenia)

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 +386 (0) 2 234 03 00

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 ervin.sersen@agen-rs.si



Spain

Issuing and redemption continued in a limited manner during 2007 until the last quarter, when a large number of RECS certificates were issued and redeemed. However, none were transferred internationally, in line with the requirement of the General Meeting that this should not take place until such time as the Spanish domain protocol was brought into line with the requirements of the Principles and Rules of Operation of EECS.

All activity has now ceased, as RED Electrica — a long time member of AIB — withdrew from AIB at the end of 2007 due to the appointment of the Spanish Regulator (CNE) as issuer of renewable electricity and high-efficiency cogeneration guarantees of origin. It is hoped that CNE will eventually join AIB as a member.

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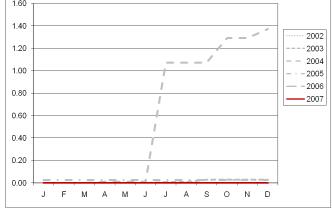
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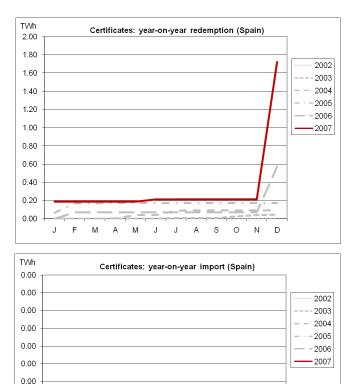
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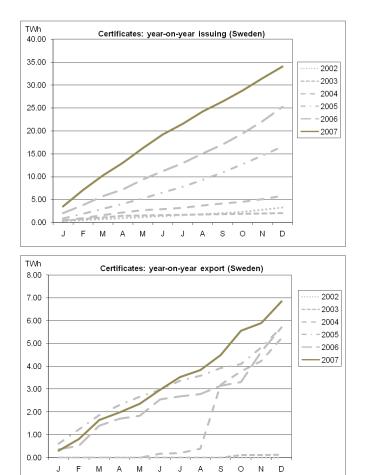
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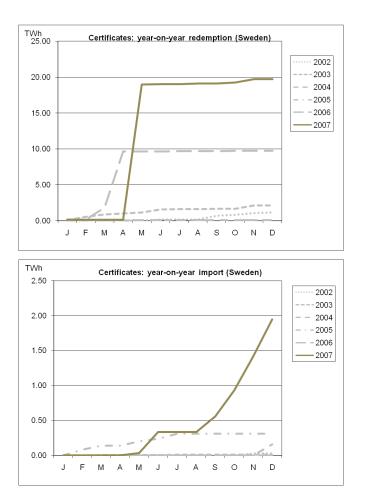
Sweden

Sweden continues to issue and redeem more certificates than ever before, exporting slightly more than in previous years (mostly to Germany and the Netherlands), and importing considerably more than in previous years (from Norway, in the main).

In particular, redemptions during May were higher than any other country since AIB records began.

A major factor in this market behaviour has been last year's update to the recommendations of the association of electricity producers, in the absence of guidance on these matters from the regulator. This clarifies the treatment of energy source disclosure, recommending guarantees of origin be redeemed as evidence of the consumption of renewable electricity. Given that it will naturally take time for these provisions to be implemented, the major impact will probably be seen during 2008. The deadline for redemptions for 2007 is sometime in spring 2008, when redemption volumes are expected to rise substantially.





For more information, contact: Marko Lehtovaara Grexel (Issuing body for Sweden) Tel: +358 (9) 251 22211 Email: marko.lehtovaara@grexel.com

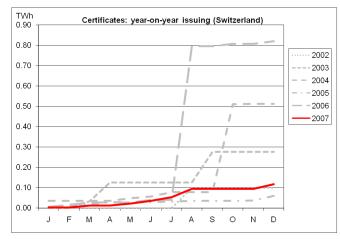


Switzerland

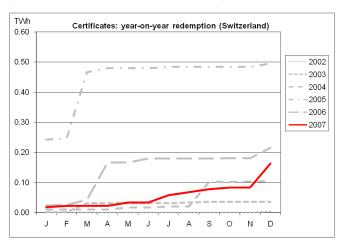
While Swiss RECS certificate issuing was relatively low this year, Redemption has started to rise, while international trade has markedly picked up. This may be in anticipation of the arrival of Swiss renewable electricity guarantees of origin later in the year,

As Switzerland is not a Member State of the European Union, EU Regulations and Directives do not apply to it. However, as Switzerland's main business and political partners are the EU Member States, the Swiss government has sought to make Swiss law compatible with EU law in respect of renewable electricity guarantees of origin. Consequently, swissgrid has been mandated Issuing Body for guarantees of origin for renewable electricity. The Swiss government has also "cloned" the Austrian RES system (with the approval of the Austrian Government); and licensed it to swissgrid to adapt to Swiss needs.

In March 2007, the Swiss and Italian Governments signed an international agreement concerning mutual recognition of renewable electricity guarantees of origin for electricity. Furthermore, we understand that the second round of bilateral agreements between the EU and Switzerland will address the opening of the Swiss electricity market towards the European electricity market.









For more information, contact: Louis Von Moos Swissgrid (Issuing body for Switzerland) Tel: +41 (4444) 53911 Email: louis.vonmoos@recs-schweiz.ch

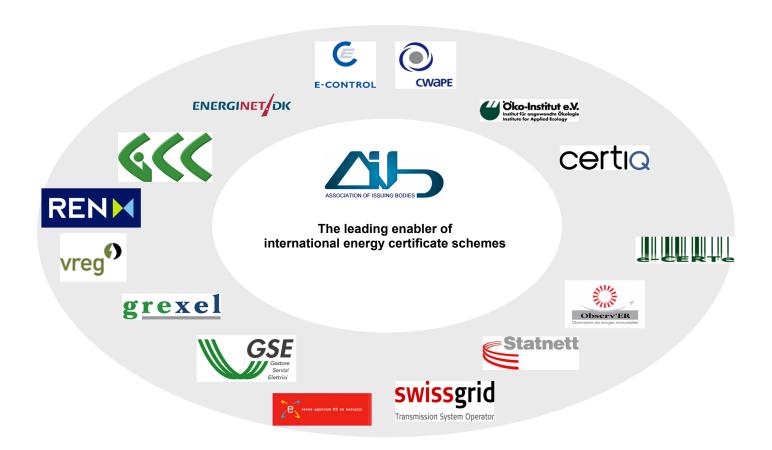
Association of Issuing Bodies

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2008 : EVENTS

| | FORTHCOMING MEETINGS |
|-------------|--|
| 13 March | <u>"Perspectives on Certification of Power Generation in the light of</u> the new EU Energy Policy" - Kempinski Hotel, Budapest |
| 10-11 April | REXchange conference and AIB General Meeting—Amsterdam |

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