



## 7th Annual Workshop on GHG Emission Trading

### Market News

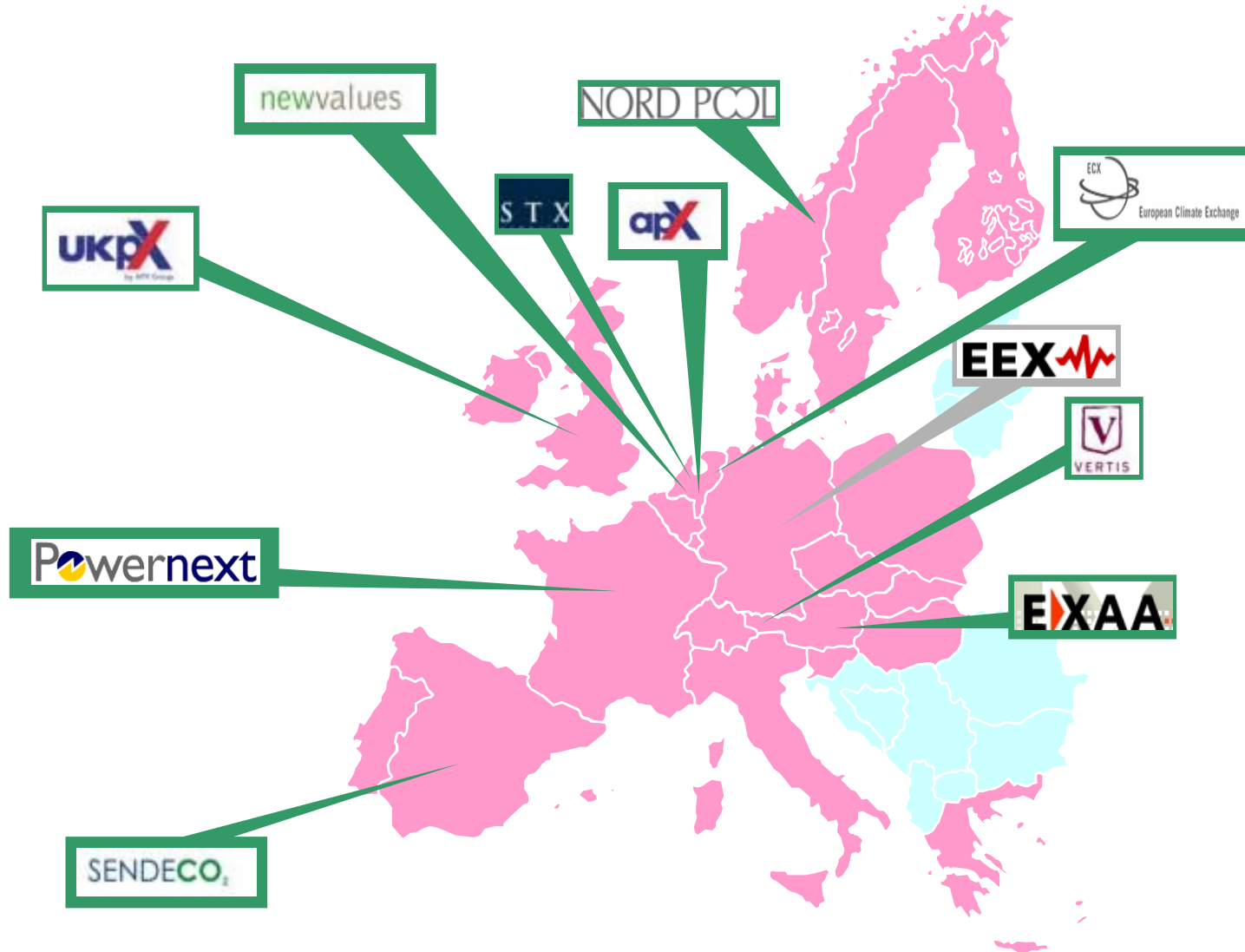


José Luis Pastor  
Head of Power and CO<sub>2</sub> Trading &  
Origination

Paris, October 8th – 9th 2007

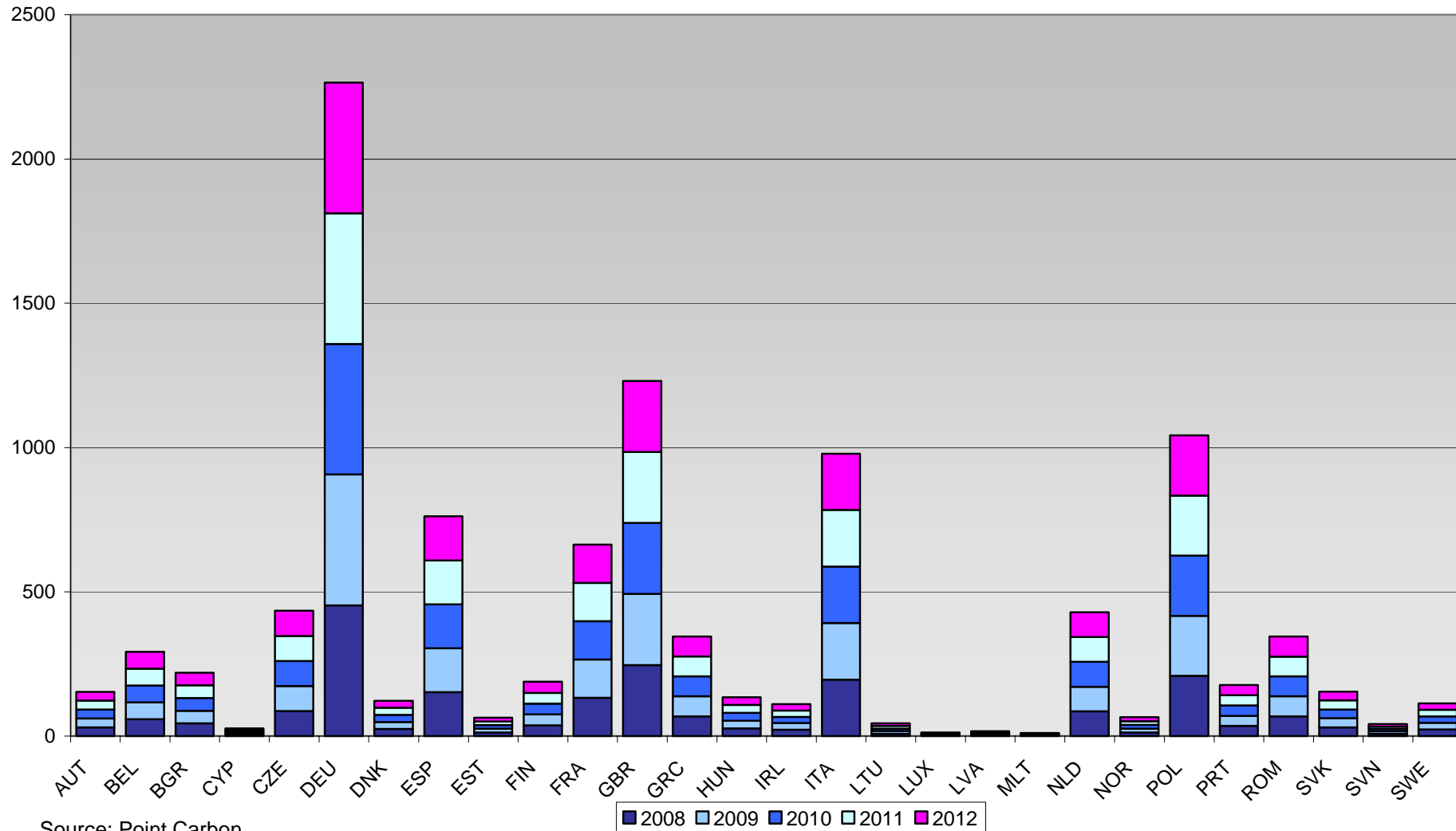
[jlpastor@endesa.es](mailto:jlpastor@endesa.es)

**WE DO HAVE A MARKET ...**



Mt

CAP 08-12



Source: Point Carbon

## 2005

	OTC	ECX/ ICE Futures	Nordpool	Powernext	EEX	EXAA	Total Exchanges	Total (OTC and Exchanges)
ene-05	6.385.000							6.385.000
feb-05	7.795.000		371.000				371.000	8.166.000
mar-05	15.058.000		1.065.000		109.000		1.174.000	16.232.000
abr-05	14.515.000	370.000	1.664.000		35.500		2.069.500	16.584.500
may-05	8.647.000	1.076.000	1.092.000		36.210		2.204.210	10.851.210
jun-05	13.113.000	6.325.000	4.007.000	124.000	317.398	7.500	10.780.898	23.893.898
jul-05	13.410.000	11.090.000	2.900.000	676.000	330.025	28.150	15.024.175	28.434.175
ago-05	6.750.000	5.633.000	3.461.000	567.000	342.961	32.658	10.036.619	16.786.619
sep-05	28.935.000	17.934.000	2.973.000	643.000	216.219	29.390	21.795.609	50.730.609
oct-05	28.419.000	20.047.000	3.414.000	271.000	465.773	32.815	24.230.588	52.649.588
nov-05	29.193.000	19.250.000	4.577.000	730.000	529.000	36.071	25.122.071	54.315.071
dic-05	19.055.000	12.623.000	2.654.000	1.361.000	833.094	19.189	17.490.283	36.545.283
<b>TOTAL</b>	<b>191.275.000</b>	<b>94.348.000</b>	<b>28.178.000</b>	<b>4.372.000</b>	<b>3.215.180</b>	<b>185.773</b>	<b>130.298.953</b>	<b>321.573.953</b>

\*Sources: LEBA Index for OTC, the Exchanges

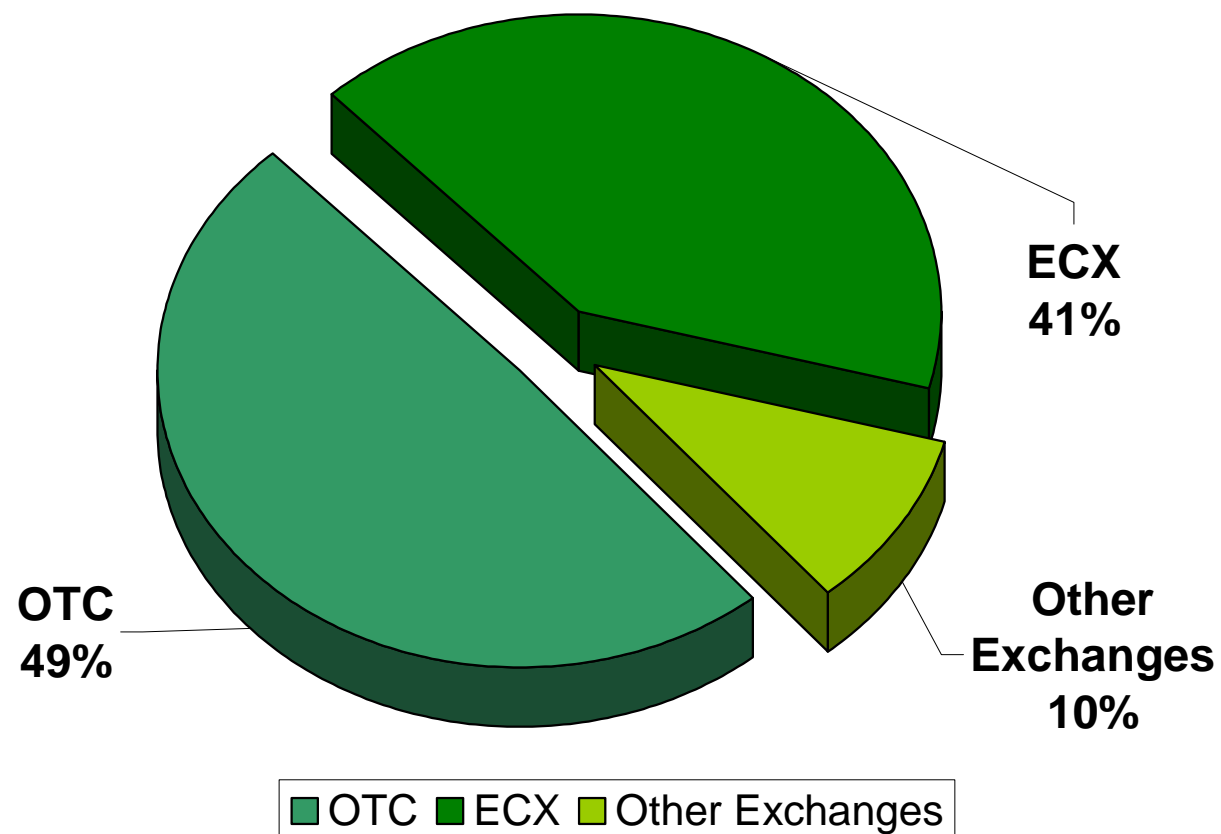
\*\*Volumes for ECX/ ICE Futures and Nordpool include both screen-traded futures and OTC cleared contracts. For the split, please see worksheet "OTC clearing". Volumes reported reflects all contracts traded.

## 2006

Compiled: 1 Jan 2007 Unit: EU Allowances	OTC (LEBA)	ECX	Nordpool	Powernext	EEX	EXAA	Total All
ene-06	42.470.200	33.931.000	7.168.000	1.966.000	837.718	38.914	86.411.832
feb-06	33.986.000	26.638.000	3.934.000	1.687.000	999.757	20.225	67.264.982
mar-06	33.893.396	22.331.000	3.221.000	2.307.000	1.157.416	26.703	62.936.515
abr-06	50.483.190	41.146.000	7.278.000	2.084.000	1.282.814	23.850	102.297.854
may-06	58.807.000	53.381.000	6.094.000	2.720.000	1.208.524	32.069	122.242.593
jun-06	32.918.500	22.553.000	4.282.000	1.619.000	774.696	24.200	62.171.396
jul-06	40.115.500	29.602.000	3.135.000	1.853.000	824.488	23.841	75.553.829
ago-06	37.324.457	27.270.000	4.782.000	1.904.000	990.451	22.576	72.293.484
sep-06	56.495.000	38.212.000	6.166.000	1.834.000	848.424	25.010	103.580.434
oct-06	60.807.417	51.534.000	5.072.000	3.389.000	1.635.809	30.715	122.468.941
nov-06	60.702.839	65.325.000	5.906.000	4.270.000	1.298.450	25.020	137.527.309
dic-06	34.860.630	40.851.000	6.739.000	5.815.000	1.193.299	15.702	89.474.631
<b>Total 2006</b>	<b>542.864.129</b>	<b>452.774.000</b>	<b>63.777.000</b>	<b>31.448.000</b>	<b>13.051.846</b>	<b>308.825</b>	<b>1.104.223.800</b>

**Sources:** LEBA for OTC brokerage data ([www.leba.org.uk](http://www.leba.org.uk)), the Exchanges ([www.ecxeurope.com](http://www.ecxeurope.com), [www.nordpool.com](http://www.nordpool.com), [www.powernext.fr](http://www.powernext.fr), [www.eex.de](http://www.eex.de), [www.exaa.at](http://www.exaa.at)).

## OTC, ECX and Other Exchanges (2006)

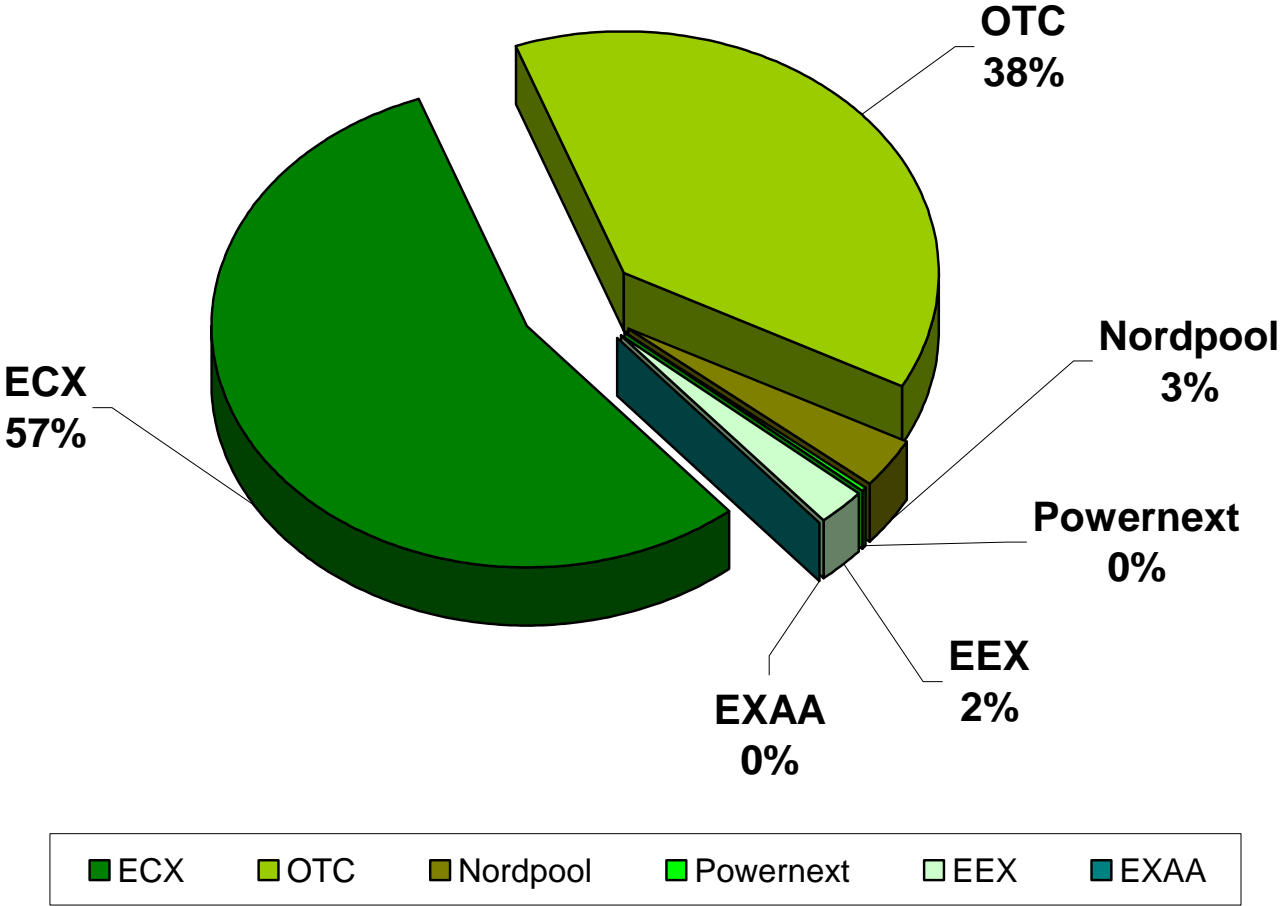


## September '07

Compiled: 1 Sept 2007 Unit: EU Allowances	ECX	OTC (LEBA)	Nordpool	Powernext	EEX	EXAA	TOTAL
ene-06	33.931.000	42.470.200	7.168.000	1.966.000	837.718	38.914	86.411.832
feb-06	26.638.000	33.986.000	3.934.000	1.687.000	999.757	20.225	67.264.982
mar-06	22.331.000	33.893.396	3.221.000	2.307.000	1.157.416	26.703	62.936.515
abr-06	41.146.000	50.483.190	7.278.000	2.084.000	1.282.814	23.850	102.297.854
may-06	53.381.000	58.807.000	6.094.000	2.720.000	1.208.524	32.069	122.242.593
jun-06	22.553.000	32.918.500	4.282.000	1.619.000	774.696	24.200	62.171.396
jul-06	29.602.000	40.115.500	3.135.000	1.853.000	824.488	23.841	75.553.829
ago-06	27.270.000	37.324.457	4.782.000	1.904.000	990.451	22.576	72.293.484
sep-06	38.212.000	56.495.000	6.166.000	1.834.000	848.424	25.010	103.580.434
oct-06	51.934.000	60.807.417	5.072.000	3.389.000	1.635.809	30.715	122.868.941
nov-06	65.375.000	60.702.839	5.906.000	4.270.000	1.298.450	25.020	137.577.309
dic-06	40.951.000	34.860.630	6.739.000	5.815.000	1.193.299	15.702	89.574.631
ene-07	61.107.000	67.580.000	6.129.000	4.904.000	1.959.000	50.200	141.729.200
feb-07	62.336.000	67.013.347	5.527.000	5.925.000	1.027.381	15.000	141.843.728
mar-07	73.829.000	73.180.565	6.100.000	3.444.000	968.701	19.800	157.542.066
abr-07	59.276.000	58.820.680	3.898.000	2.118.000	3.898.741	14.875	128.026.296
may-07	77.713.000	58.820.680	5.805.000	2.118.000	3.898.741	33.200	148.388.621
jun-07	91.381.000	88.501.000	9.049.000	1.009.000	3.042.250	20.671	193.002.921
jul-07	126.058.000	93.935.000	5.117.000	485.000	3.736.150	21.000	229.352.150
ago-07	103.119.000	70.722.550	6.219.000	714.000	4.386.000	30.750	185.191.300
<b>TOTAL</b>	<b>1.108.143.000</b>	<b>1.121.437.951</b>	<b>111.621.000</b>	<b>52.165.000</b>	<b>35.968.810</b>	<b>514.321</b>	<b>2.429.850.082</b>

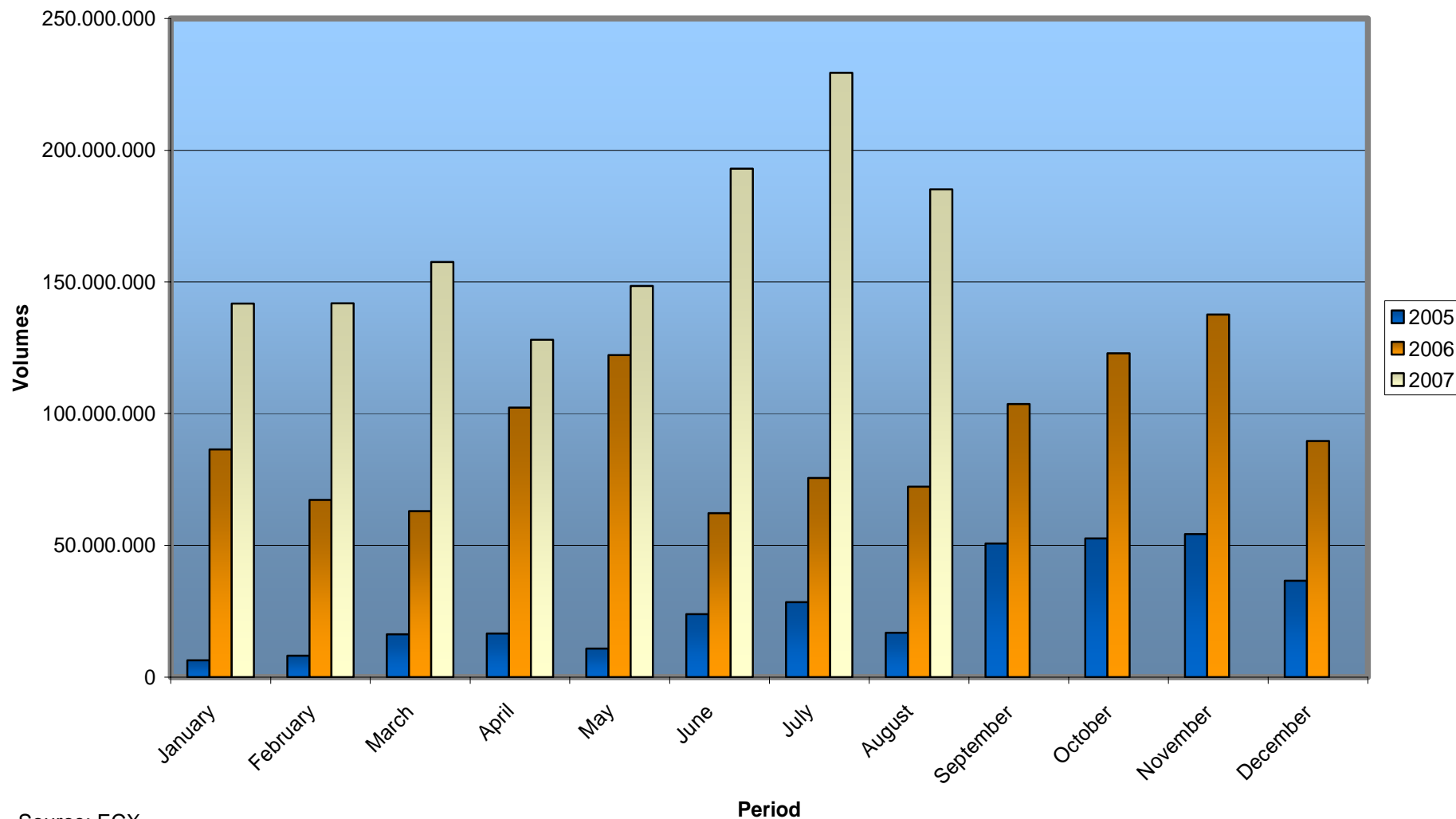


## Total Market Volume



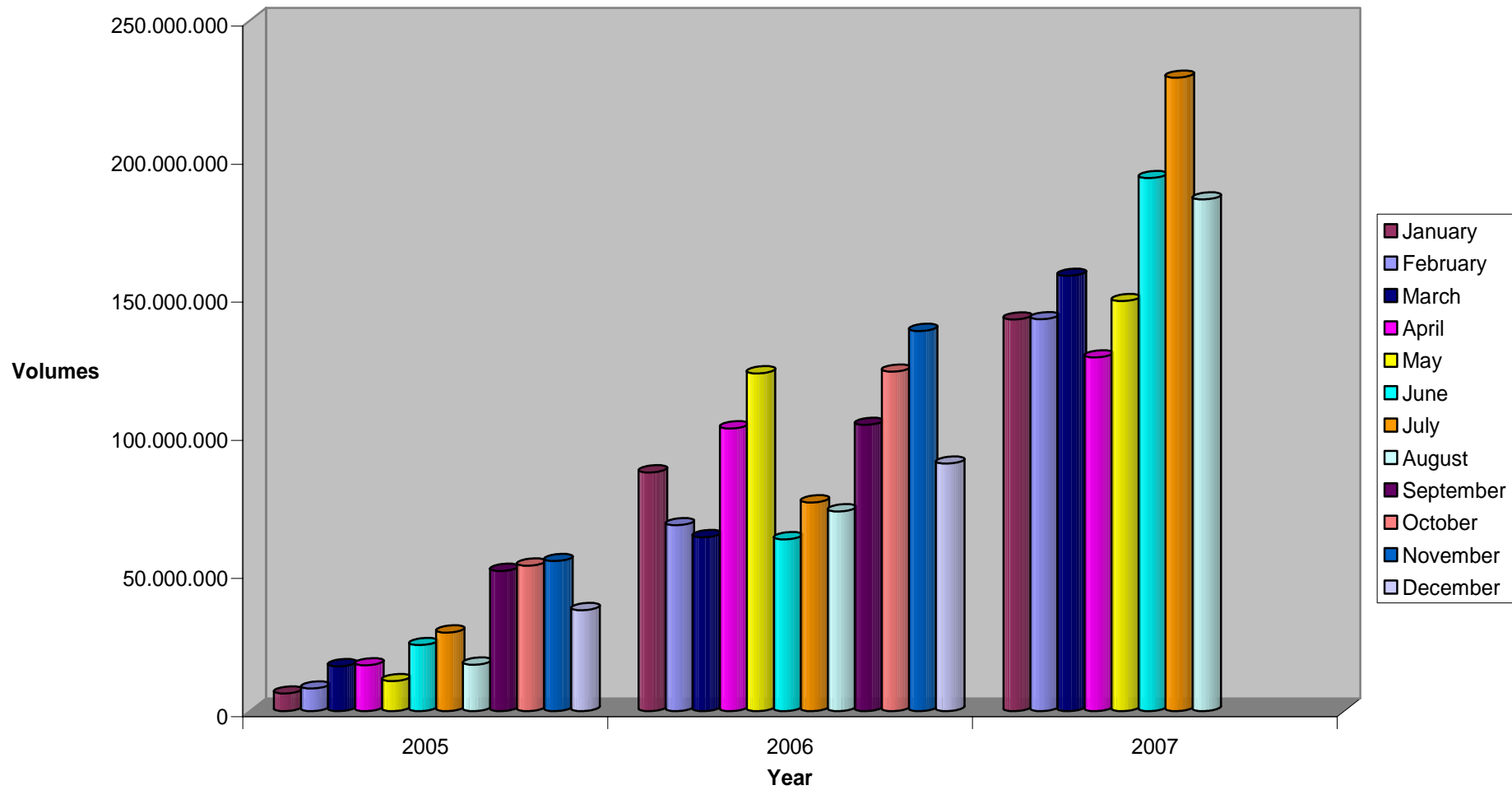
Source: ECX

## Market Volumes



Source: ECX

Market Data Per Year/Month



Source: ECX

**WE DO HAVE A MARKET ...**

**BUT .....**

- Overalllocation: No scarcity
- Different allocation systems within countries.
- Non mature market: Lack of fundamentals
- Differences between players: Compliance Vs. Non – compliance. Fines
- Lack of market knowledge from most of the (small) players
- Most of the effort on the shoulders of power sector.
- Too short period both for market analysis and trading.
- Too short allocation period: Uncertainty for investments.



# Achievements



- Increase in traded volumes.
- An unique and world wide recognized price has been achieved
- Every day new players enter into the market. Increase of liquidity
- Correlations begin to work.
- Price reference for CERs world around.
- The market responds in a quick way to news and information.
- Sometimes you win, and sometimes you loose.

- Homogeneous allocations: Countries, technologies, criteria, pay back
- Auctioning of allocations.
- Include financial settlements: Need of a reliable index
- Increase derivatives trading: Options, Structures, Spreads EUAs/CERs ...
- World – wide system.
- Homogeneous and reliable informations
- Increase liquidity: Players, products, time horizon

# EV

The main logo for EV endesa. The letters 'EV' are in a large, bold, blue, sans-serif font. The 'V' is partially obscured by a blue and white graphic element resembling a sun or light rays. Below 'EV' is the word 'endesa' in a lowercase, blue, sans-serif font.



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European Green Markets/Emissions -- CER Issuance

Pricing Date: // // Last Price: In 1 Month

Product	Time	Tot CERs Iss	% Chg	Product	Time	No. Projects	% Chg
Certified Emission Reduction Issuance				UNFCCC-Registered Projects			
1) Total CERs Issued	10/01	82826896	0.1	18) India	09/28	282	
2) Last issuance	10/01	42446	131.2	19) Brasil	09/28	108	
3) India	09/28	28761418	0.7	20) China	09/28	116	
4) China	09/28	19906792	0.4	21) Mexico	09/28	91	
5) Korea	09/28	15115878		22) Chile	09/28	20	
6) Brasil	09/28	12257680	0.0	23) Malaysia	09/28	16	
7) Chile	09/28	2043031		24) South Africa	09/28	15	
8) Mexico	09/28	1910664		25) Honduras	09/28	12	
9) Egypt	09/28	8433		26) Argentina	09/28	10	
10) Malaysia	09/28	428		27) Ecuador	09/28	9	
11) Nicaragua	09/28	23982		28) Colombia	09/28	6	
12) Guatemala	09/28	197928		29) Guatemala	09/28	5	
13) Ecuador	09/28	15		30) Panama	09/28	5	
14) Sri Lanka	09/28	29446		31) Peru	09/28	7	
15) Argentina	09/28	25675		32) Costa Rica	09/28	4	
16) Jamaica	09/28	80916		33) Sri Lanka	09/28	4	
17) Peru	09/28	63661					

91) OTC Market 92) Exchange Market 93) Exchange Market 94) CER 95) CER Issuance  
 Australia 61 2 9777 8600 Brazil 5511 3048 4500 Europe 44 20 7330 7500 Germany 49 69 920410  
 Hong Kong 852 2977 6000 Japan 81 3 3201 8900 Singapore 65 6212 1000 U.S. 1 212 318 2000  
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European Green Markets/Emissions -- CER Issuance

Pricing Date  Last Price

Product	Time	Tot CERS Iss	% Chg	Product	Time	No. Projects	% Chg
1) Papua New Guinea	09/28	52388		6) Mongolia	09/28	3	
2) Honduras	09/28	50281		7) Moldova	09/28	3	
3) Phillipines	09/28	27807		8) Nicaragua	09/28	3	
4) El Salvador	09/28	98155		9) Armenia	09/28	2	
5) Bhutan	09/28	474		10) Bolivia	09/28	2	
				11) Bangladesh	09/28	2	
				12) Cyprus	09/28	2	
				13) El Salvador	09/28	3	
				14) Vietnam	09/28	2	
				15) Bhutan	09/28	1	
				16) Papua New Guinea	09/28	1	
				17) Dominican Republi	09/28	1	
				18) Laos	09/28	1	

BACKUP

91) OTC Market 92) Exchange Market 93) Exchange Market 94) CER 95) CER Issuance

Australia 61 2 9777 8600    Brazil 5511 3048 4500    Europe 44 20 7330 7500    Germany 49 69 920410  
 Hong Kong 852 2977 6000    Japan 81 3 3201 8900    Singapore 65 6212 1000    U.S. 1 212 318 2000    Copyright 2007 Bloomberg L.P.  
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