



TRADING OF GREEN CERTIFICATES: A tool to promote territorial cohesion

ENERGY FOR THE PERIPHERY

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**Fortum Markets
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Outline of the presentation

- Why promote renewable energy?
- What is "green certificates"?
- What is RECS?
- What can RECS INSIDE do for you?
- Closing remarks





Power Play

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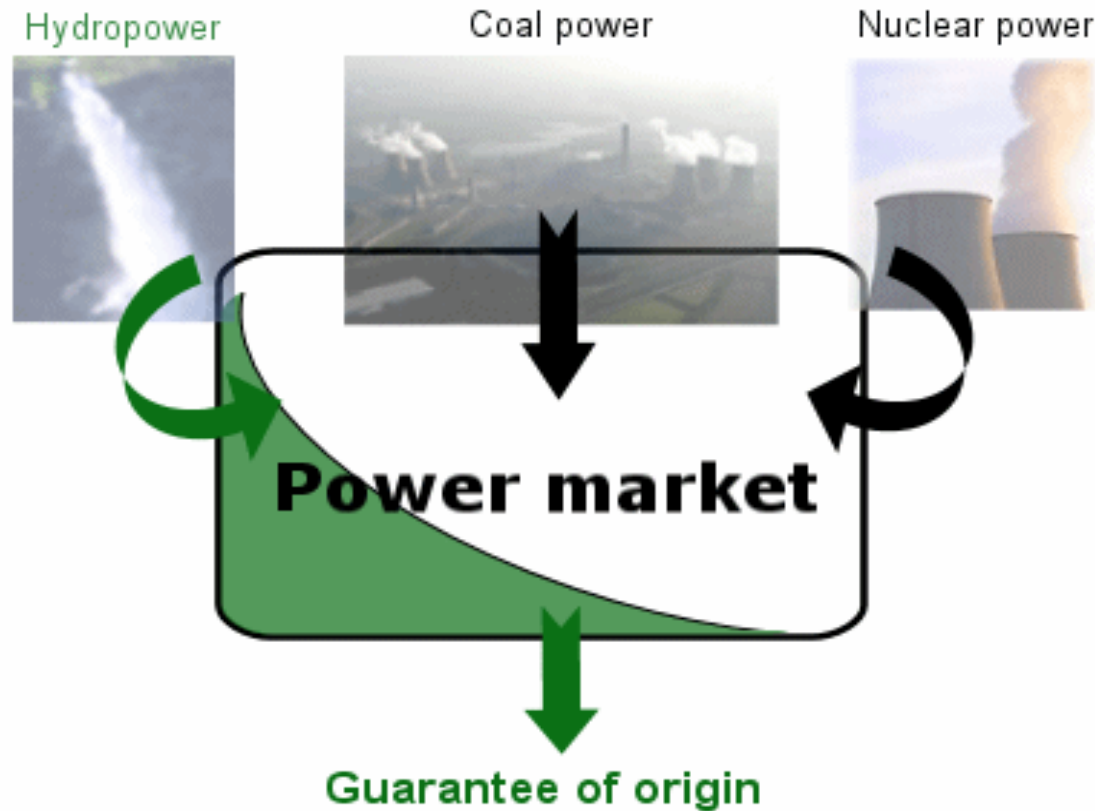
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Guaranties of origin



Renewable Energy Certificate System (RECS)

- **RECS is a electronically system for transferring "greenness" between producers of renewable energy and consumers.**

- ✓ Non profit, European association based in Brussels
- ✓ RECS International, 119 members, 18 countries
- ✓ 2005: Certificates from 40TWh renewable energy production was issued

- History

- ✓ Start up phase 2000
- ✓ Test Phase 2001-2002
- ✓ Operational 2003-.....

Testing the systems
Shaping the market

- ✓ See www.recs.org for more informasjon.



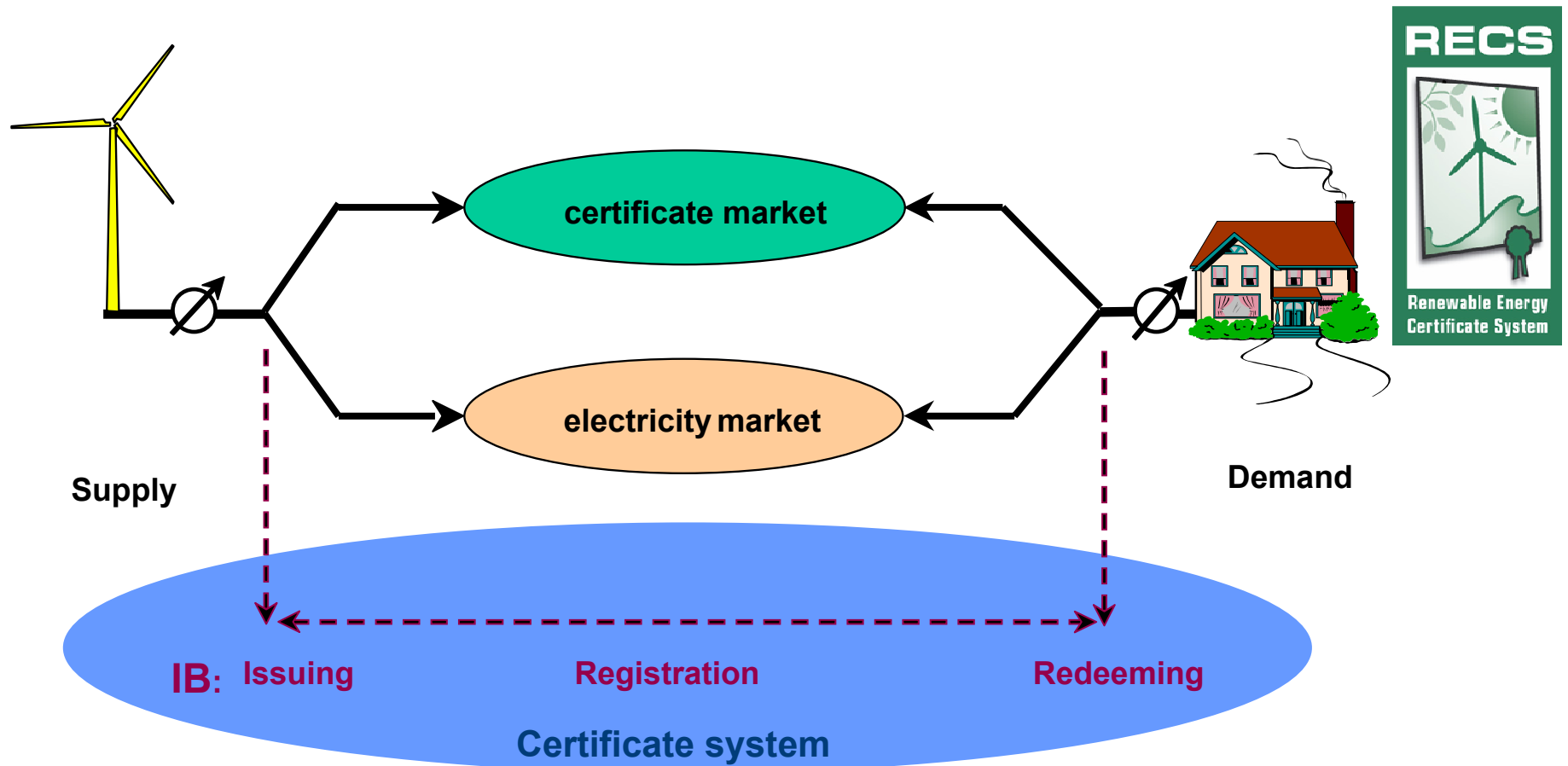
Renewable Energy Certificate System (RECS)



RECS INSIDE

***Does your Computer run on
renewable energy?***

Certificate system: RECS INSIDE



RECS INSIDE

- One certificate represents 1 MWh of renewable energy production.
- Each certificate is unique
 - ✓ Unique certificate number
- The certificate carries information about:
 - ✓ Production source
 - ✓ Production technology
 - ✓ Production domain
 - ✓ Time of production
 - ✓ Public support
 - ✓ Issuing body



RECS: Certificate life

- ✓ Issuing:
- ✓ Transferred:
- ✓ Redeemed:

The screenshot displays the RECS web application interface within a Microsoft Internet Explorer browser window. The browser's address bar shows the URL: https://www.recsno.com/default_member.asp. The application header includes navigation tabs: REPORTS, CREATE RED, CERTIFICATES, FUEL MIX, and MODIFY CONTACT INFORMATION. The main content area is titled "RECS" and features a section for "Redeemed Certificates" under the heading "Østfold Energi Produksjon AS". A table lists individual certificates with columns for MeterID, Name, Address, and Number of certs. The table shows 15 entries, with a total of 1 certificate redeemed. Below the table, there is a "Set time for new report:" section with input fields for "Start (yyyy-mm-dd):" and "End (yyyy-mm-dd):", and an "OK" button.

MeterID	Name	Address	Number of certs
P0781	Mehuken, Vindpark	Mehuken, Målsøy Målsøy	0
P0782	Mehuken Vindpark	Mehuken, Målsøy Målsøy	1
P0981	Brekke	Rakkestad Rakkestad	0
P0838	Lekum	Eidsberg Mysen	0
P0983	Gabestad	Rakkestad Rakkestad	0
P0982	Haugaard	Rakkestad Rakkestad	0
P0980	Buer	Rakkestad Rakkestad	0
P0653	Ørje	Halden Halden	0
P0656	Nyset	Årdal Årdalstangen	0
P0809	Brekke	Halden Halden	0
P0677	Borgund	Steinklepp Steinklepp	0
P0678	Stuvane	Steinklepp Steinklepp	0
P1168	Ølhusjøen	Steinklepp Steinklepp	0
P1023	Lauvsnes	Flatanger Flatanger	0
P1021	Schelde foss	Flatanger Flatanger	0
P1020	Dalefoss	Flatanger Flatanger	0
P1022	Morkenfoss	Flatanger Flatanger	0
0	Nyset	Årdal Årdal	0
Total			1

RECS INSIDE

- A reliable tool to transfer “greenness” from producer to consumer
 - ✓ Cheque and Balance
 - ✓ No fragmentation
 - ✓ No double selling
 - ✓ Ex-post trading possible
 - ✓ Easy to keep under surveillance
 - ✓ Easy to trade, easy to handle
 - ✓ Reliable third parties (Issuing Bodies)



RECS INSIDE, SAFE AND EASY

But....

- The demand for certificates is a stimulant for renewable energy
- **RECS INSIDE** is **NOT** a goal in it self!
- **RECS INSIDE** is **NOT** a support system in it self
- **RECS INSIDE** is a “market facilitator”



Closing remarks

- **RECS INSIDE** is a tool that can help to promote renewable energy
- The tool is at hand, use it!
- Use **RECS INSIDE** and renewable energy in the peripheries will get the needed competitive advantage

RECS certificates = Clean air = A better future

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RECS INSIDE

***Does your Computer run on
renewable energy?***

