Kazakhstan’s Carbon Units Registry

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Main topics

- Basic info
- Registration, user types
- National Allocation Plan and quota allocation mechanism
- Quota trading system
- Trading statistics
Registry development

- The registry was developed by our organization “from scratch”
- First version - 2012
- Current version
- Languages: PHP, MySQL
Registration in system

- User provides basic information about his company (address, phone, email, etc).
- User signs an application for registration
- Every case is being reviewed by Registry administrator, so the registration might be confirmed or declined
User types

- Nature users
- Brokers
- Traders
- Individuals or trading companies
Nature user functions

- Receive quotas according to NAP
- Choose a trader
- Buy/sell quotas through trader

Trader functions

- Control quotas that Nature user signed for sale
- Trader can’t buy/sell quotas on this type of account. In order to do that, trader needs to register another account (as individual)
- Attach document that confirms transaction
Administrator functions

- Confirm/reject any user type registrations
- Confirm/reject transactions
- Generate registration keys for users
- Block/regain access for any user types
- Load NAP file into system
- Check full transaction history
National Allocation Plan (NAP)

- NAP is the main source of carbon units
- NAP is developed by the Ministry of Energetics
- NAP is presented as an Excel-file
- Excel-file is loaded and analyzed by the system automatically
NAP

Inventory

Committee of environmental regulation and control

Nature user

Registry

As an excel-file
Trading process

1. **Seller**
   - Quotas are frozen

2. ** Trader**
   - Confirmation

3. **Administrator**
   - Quotas transferred from seller to buyer

4. **Buyer**

5. **Commodity Exchange**
Quota life cycle

NAP → Registry → Cancellation

Commodity Exchange
Trading report

- During 2014 trading year:
  - Total quotas treaded 1252950
  - Total transactions: 34

- During 2015 trading year:
  - Total quotas treaded 1983922
  - Total transactions: 40
Thank you for attention!