

# **RUSSIA , ECOLOGICAL AND ENERDGY EFFICIENCY MARKET**

*«National Carbon union»*

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# *National Carbon Union*

- *Non-profit organization*
- *Created in 27 July 2003*
- *Our membership includes representatives of the leading Russian industrial and energy companies, engineering companies, investment funds and banks*
- **Totally – more than 40 % RUSSIAN GHG- emissions**

## *Type of projects*

- ✓ *Bio-fuel – Tomsk region*
- ✓ *Small energy supply – Moscow, Stavropol and Altai region*
- ✓ *Processing of refuse tip – Moscow region*
- ✓ *Coal gas – Kemerovo region*

### *Approach:*

**Unification**

**Standardization**

**Region program**



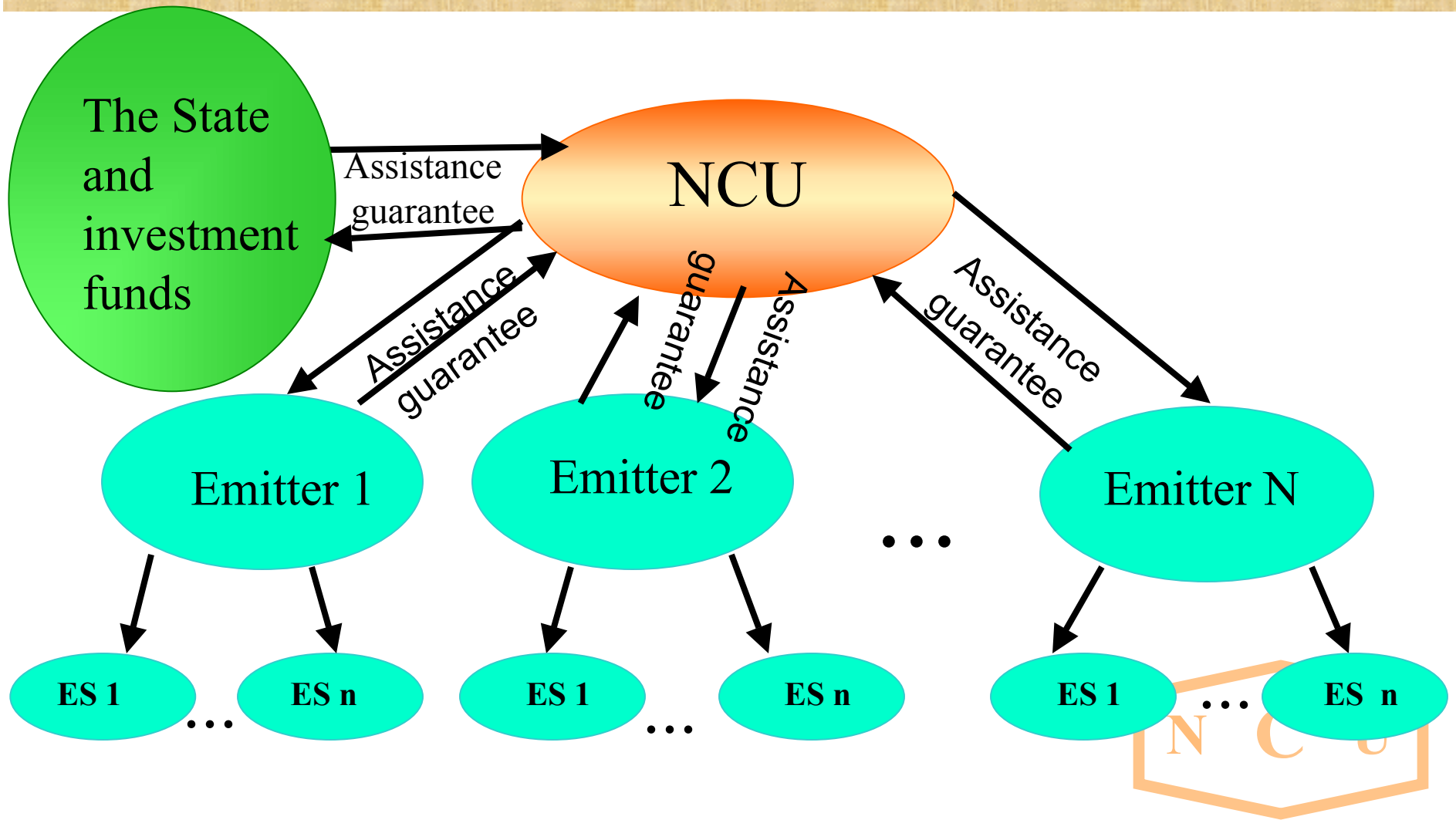
## *Terms and definitions*

*Emitter – legal unit, responsible for the control of the emissions limits( **OWNER** or **ESCo**)*

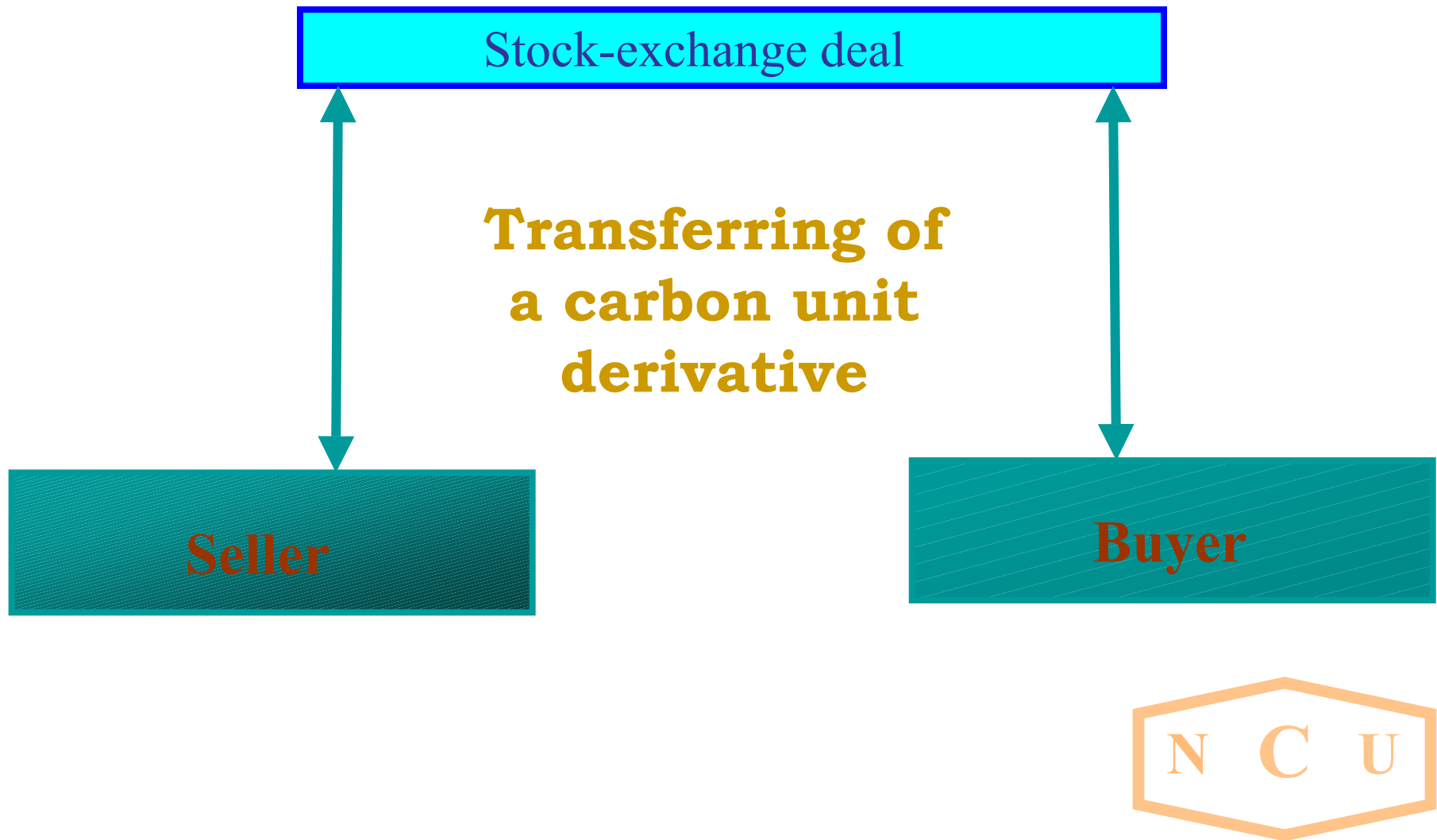
*Emissions source – industrial object (production unit) carrying out emissions*



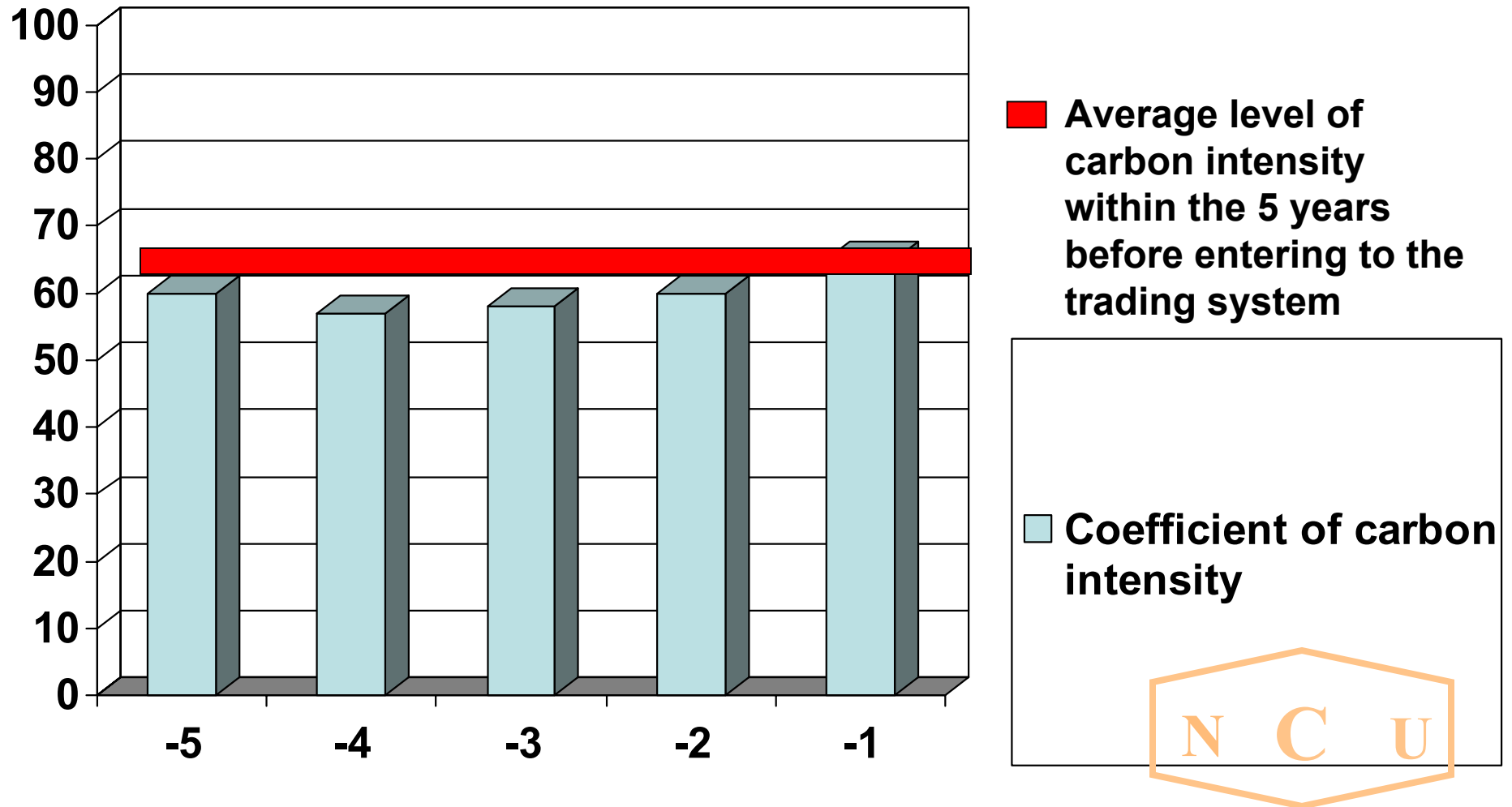
# State - private partnership



# Derivative of Carbon Units trading



# The order of definition of the emissions limits (allocated Allowances)



# *Carbon intensity indicator and emissions limit for the emitter*

## *Carbon intensity indicator of the source*

$$K^C = \sum_{-1}^{-5} (V_{ghg} / V_{fl}) / 5, \quad \text{where}$$

$V_{ghg}$  — *the volume of greenhouse gases emissions of the source*

$V_{fl}$  — *the volume of the factory load of the source*

*Calculations are made by the results of 5 previous years*

## *Emissions limit for the emitter*

$$lim^e = \sum_1^N V_{fl1} \times K^C, \quad \text{where}$$

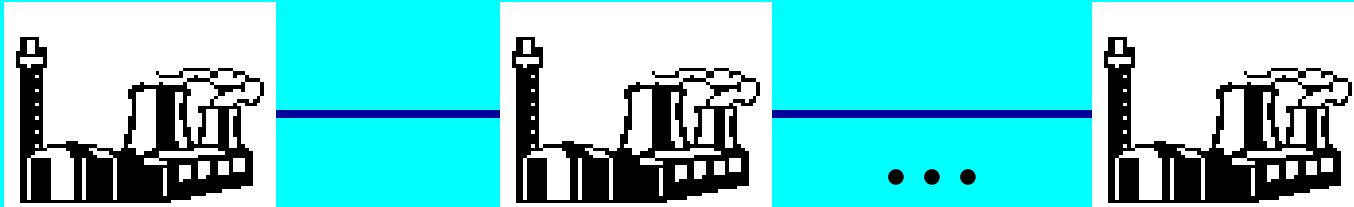
$V_{fl1}$  — *the volume of the factory load of the source by the year of the budget period*

$K^C$  - *Carbon intensity indicator of the source*



# GHG-emissions monitoring

## Unified system of emissions accounting



Information transfer

**Regional supplier of  
the commercial  
information**

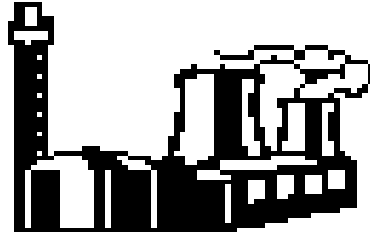
Information transfer

**Market  
participants**

**Market**

N C U

# Requirements for emitters to enter the market



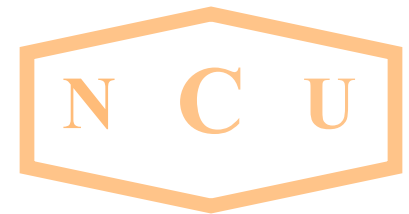
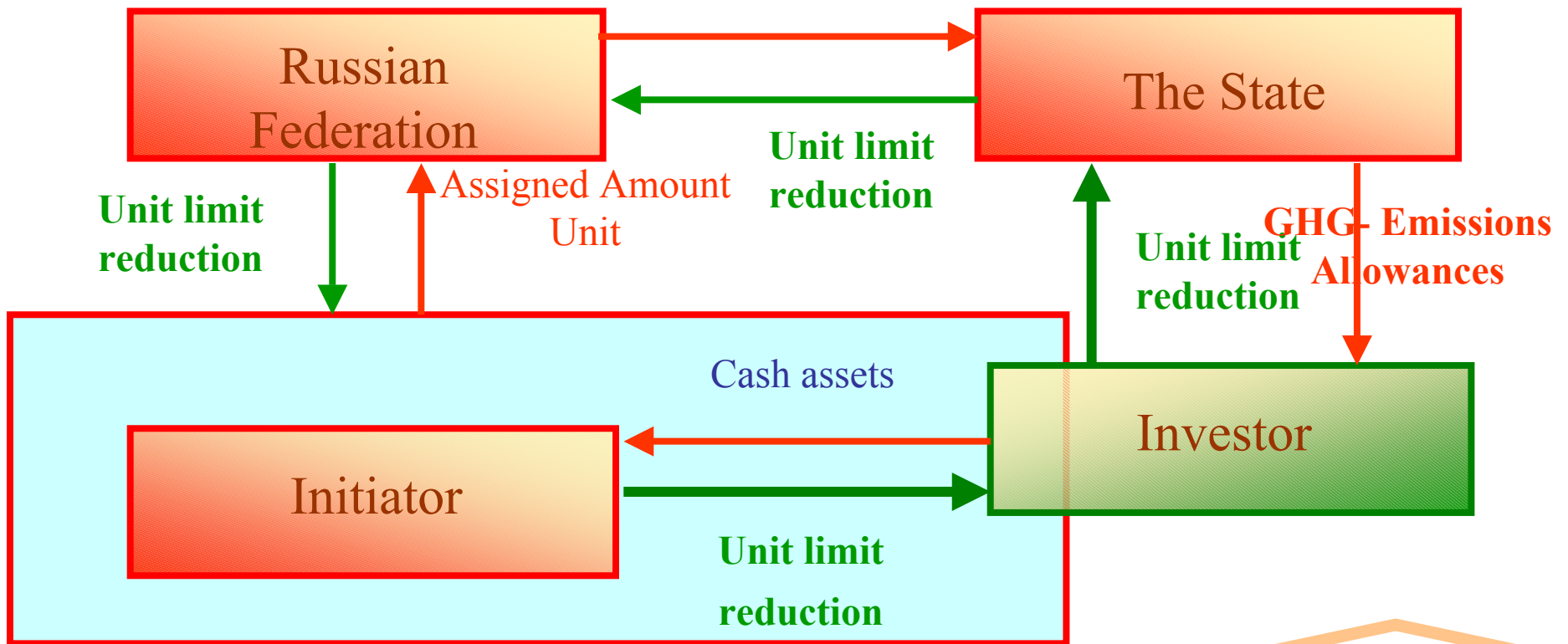
Ecological passport of the GHG-emitting enterprise includes :

- 1) GHG-emissions baseline - emissions level for the latest reporting year,
- 2) Coefficient for calculation of GHG-emissions regarding the unit of consumed energy resource.



# Article 6,17, EU directive and Russian emissions trading system

Transfer AAU



# Global Carbon Market – source world ecological market

