



**HROTE** HRVATSKI OPERATOR  
TRŽIŠTA ENERGIJE d.o.o.  
CROATIAN ENERGY MARKET OPERATOR Ltd.



[www.hrote.hr](http://www.hrote.hr)







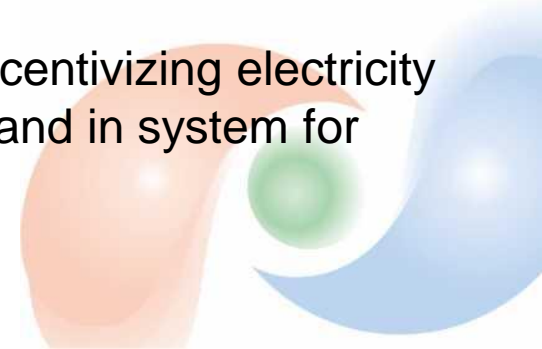


**HROTE** HRVATSKI OPERATOR  
TRŽIŠTA ENERGIJE d.o.o.  
CROATIAN ENERGY MARKET OPERATOR Ltd.

## Establishment & Role

---

-  HROTE started operating on 4th April 2005
-  Transfer of 100 % of business share from the HEP Group to the Republic of Croatia was accomplished in October 2007
-  HROTE performs activities of organizing electricity and gas market as a public service, under the supervision of the Croatian Energy Regulatory Agency (HERA)
-  In addition, HROTE performs activities in system for incentivizing electricity production from renewable sources and cogeneration and in system for incentivizing production of biofuels for transport.





**HROTE** HRVATSKI OPERATOR  
TRŽIŠTA ENERGIJE d.o.o.  
CROATIAN ENERGY MARKET OPERATOR Ltd.

## Market participants on the electricity market

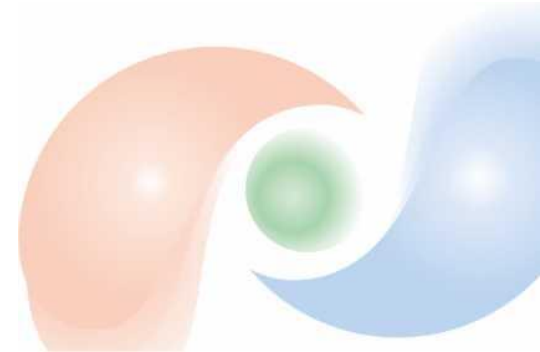
 **Producer**

 **Supplier**

 **Trader**

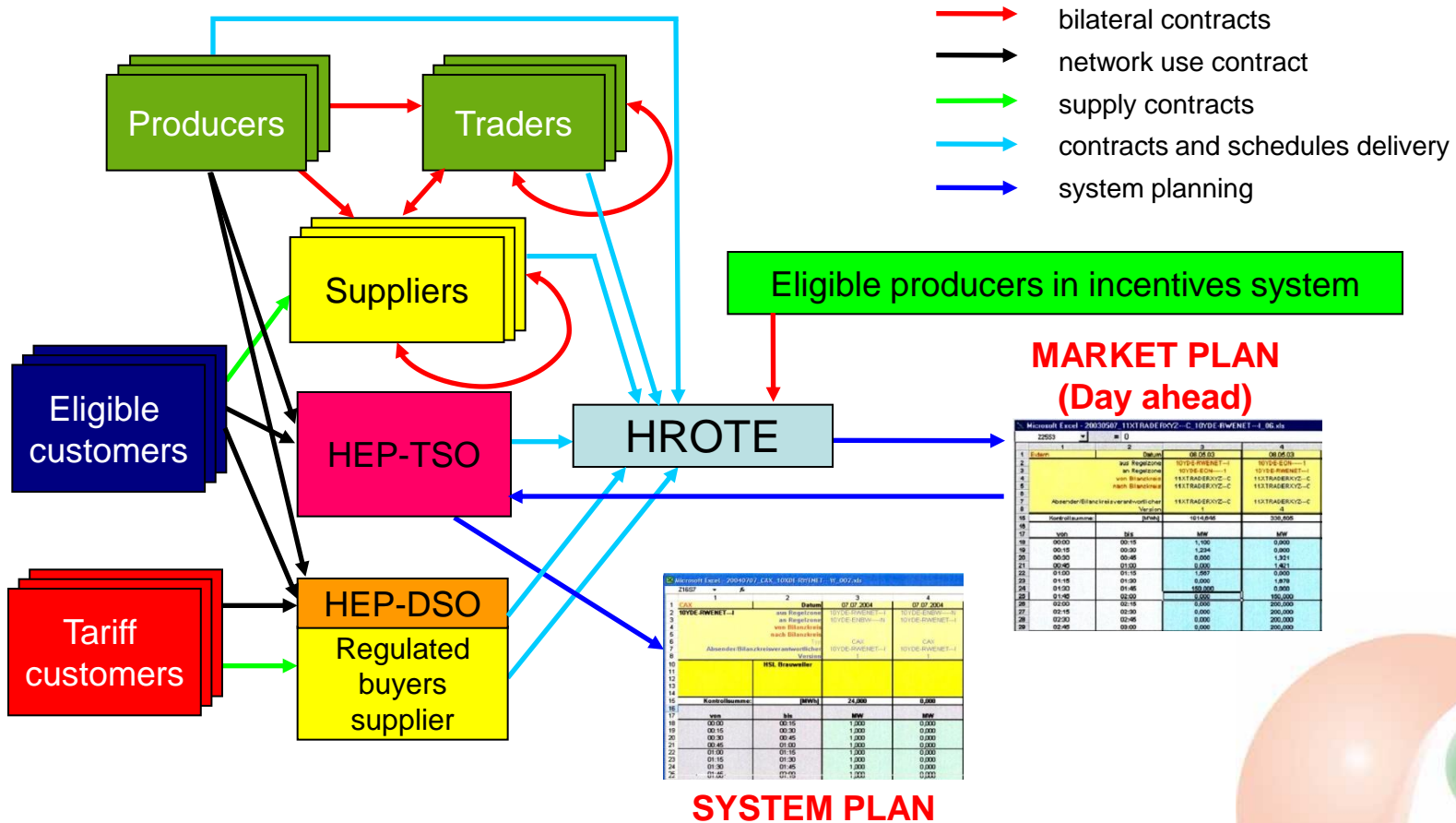
 **Eligible customer** (through his supplier)

- Other important subjects:
- Croatian energy regulatory agency (HERA)
- HEP – Transimission system operator (HEP-OPS), now HOPS
- HEP – Distribution system operator (HEP-ODS)





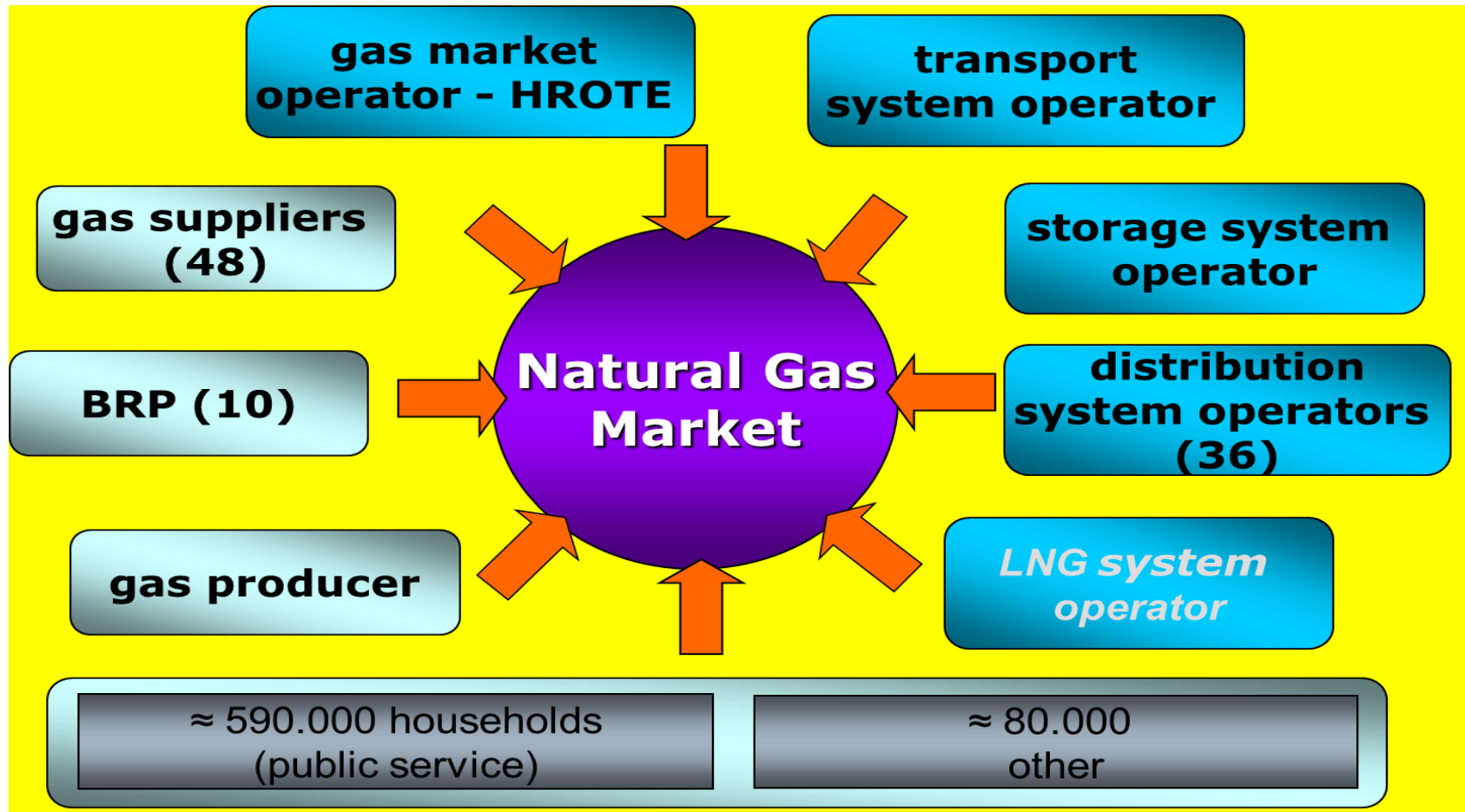
# Electricity market model







## Market participants on the gas market





**HROTE** HRVATSKI OPERATOR  
TRŽIŠTA ENERGIJE d.o.o.  
CROATIAN ENERGY MARKET OPERATOR Ltd.

## Natural gas market model

---

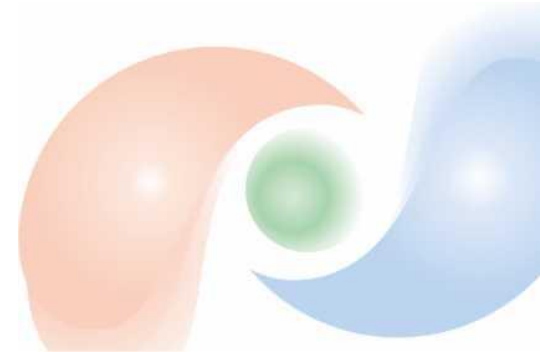


### **Balancing group model (BRP - balancing responsible parties)**

Relationships between gas market participants mainly concluded through bilateral contracts



HROTE – responsible for settlement of imbalance



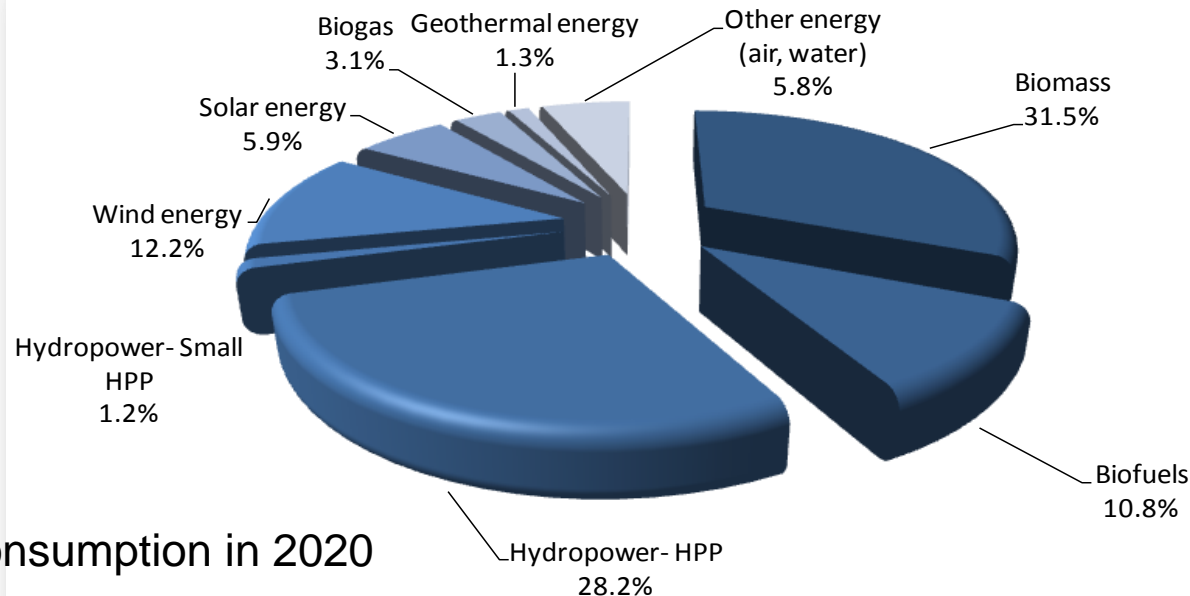


## Sector objectives of RES

(Energy Strategy from 2009 / draft National Action Plan)

Sector	Share of RES, %
Electricity	9.2
Transport	2.2
Heating and cooling	8.6

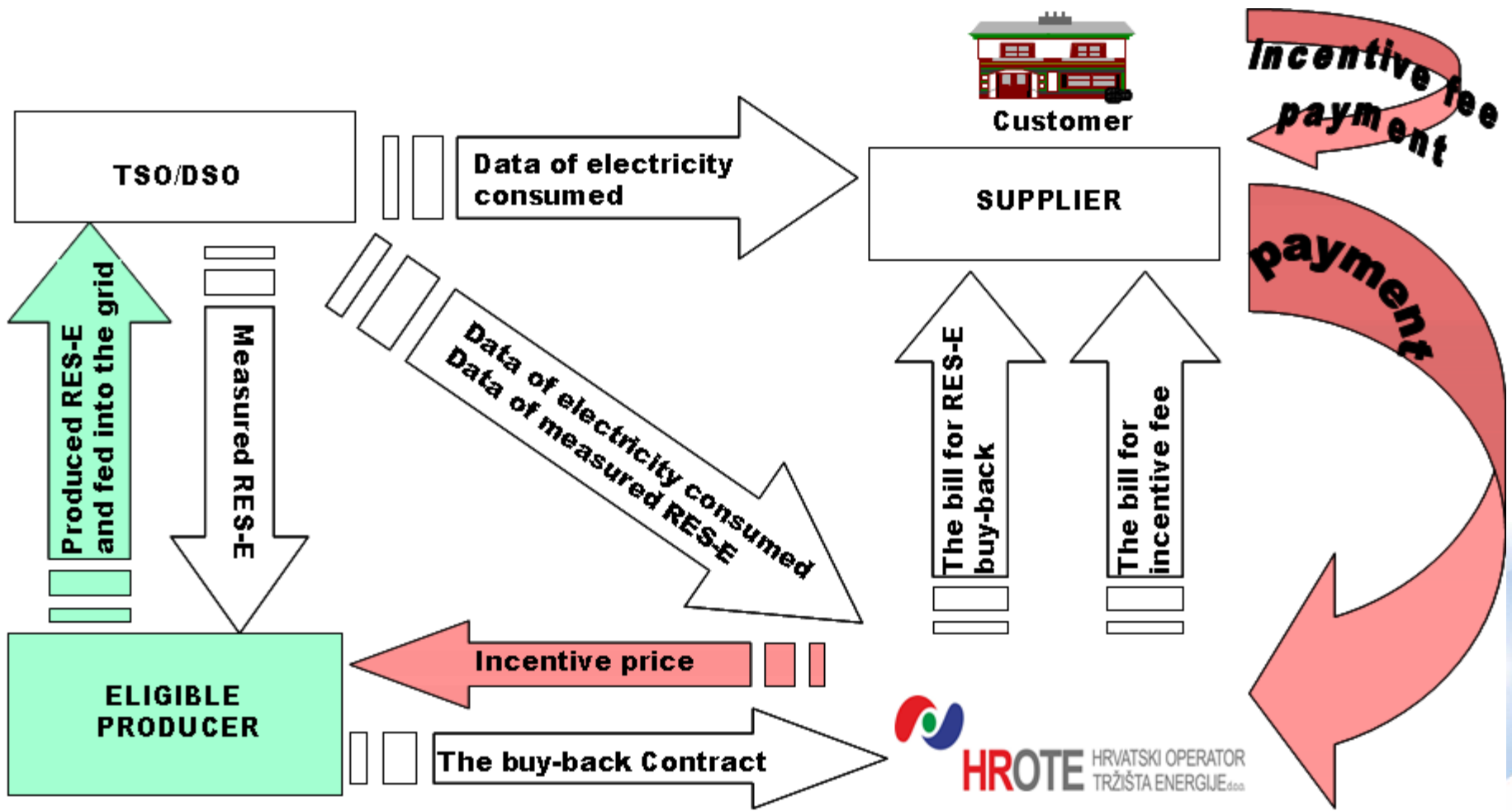
The goal is to use around 84 PJ of renewable energy sources in 2020



RES shares in gross final energy consumption in 2020



## FiT support model for RES & HE-CHP in Croatia (I)







**HROTE** HRVATSKI OPERATOR  
TRŽIŠTA ENERGIJE d.o.o.  
CROATIAN ENERGY MARKET OPERATOR Ltd.

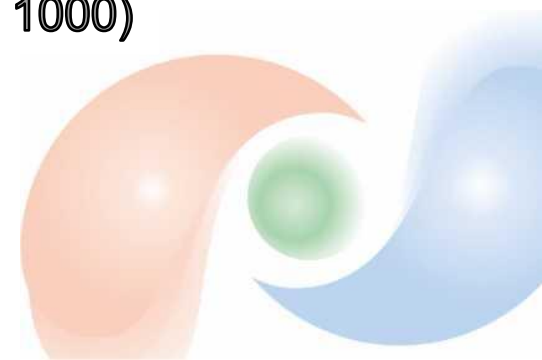
## Signed contracts with the developers/eligible producers since 2007

There are 1.147 contracts that have been signed in HROTE so far:

Wind Power Plant	175.250 kW
Solar Power Plant	4.721 kW
SHP	1.340 kW
Biogas	6.690 kW
Biomass	8.135 kW
Sewage gas	2.500 kW
CHP	10.493 kW
Wind Power Plant	263.000 kW
Solar Power Plant	31.724 kW
SHP	332 kW
Biogas	7.490 kW
Biomass	46.000 kW
Geothermal	4.710 kW
CHP	1.000 kW

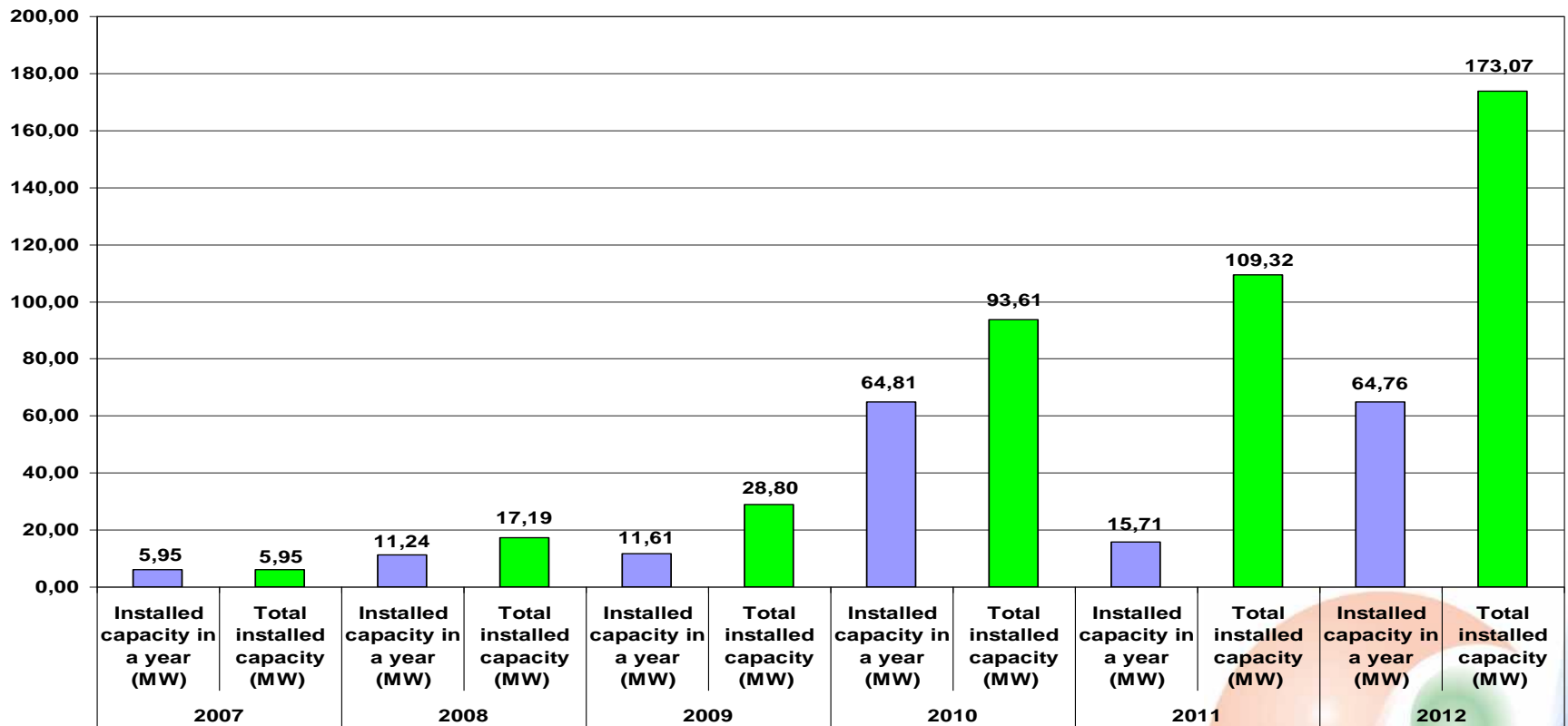
production **209 MW**  
(cca 200)

construction **354 MW**  
(cca 1000)



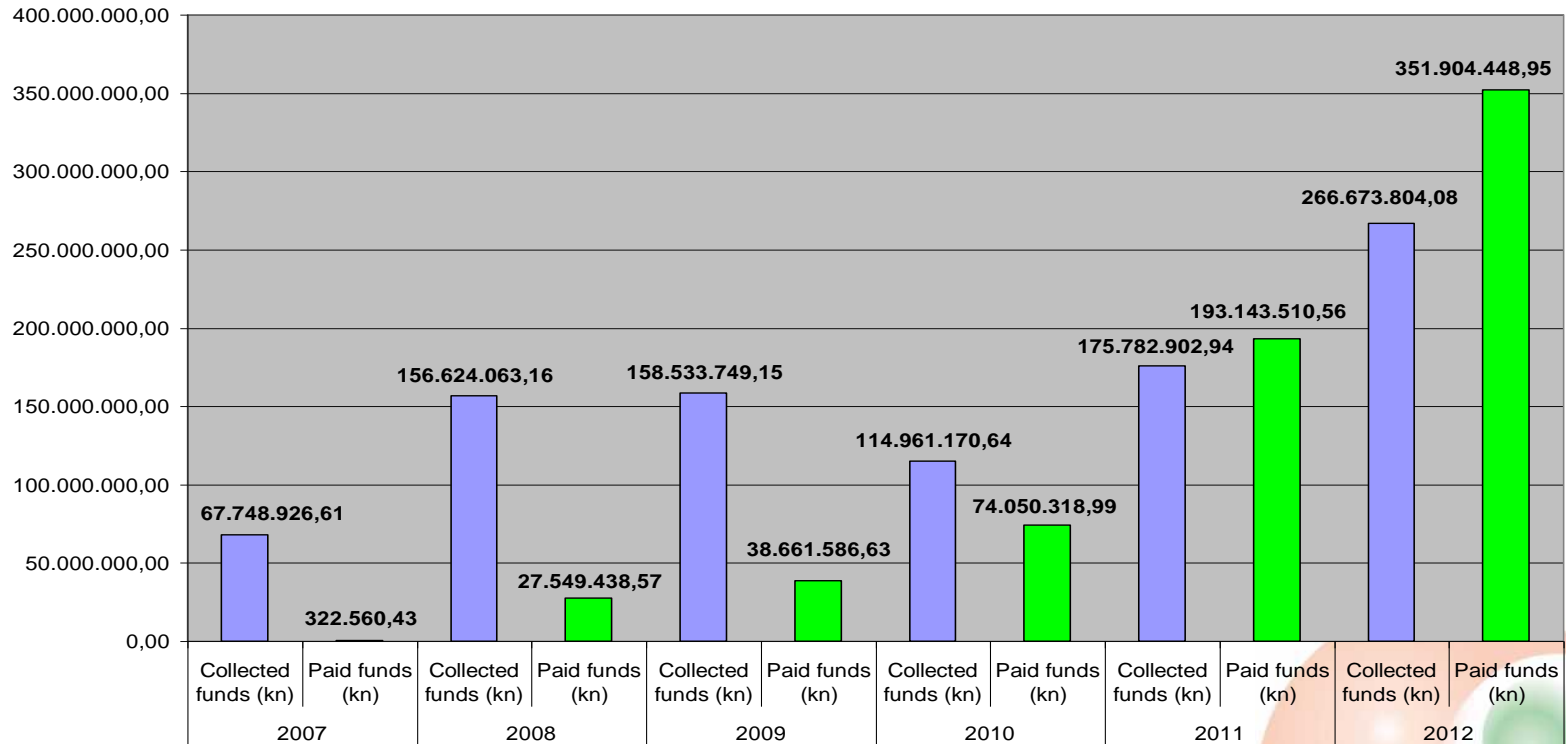


## Installed capacity of eligible producers 2007-2012



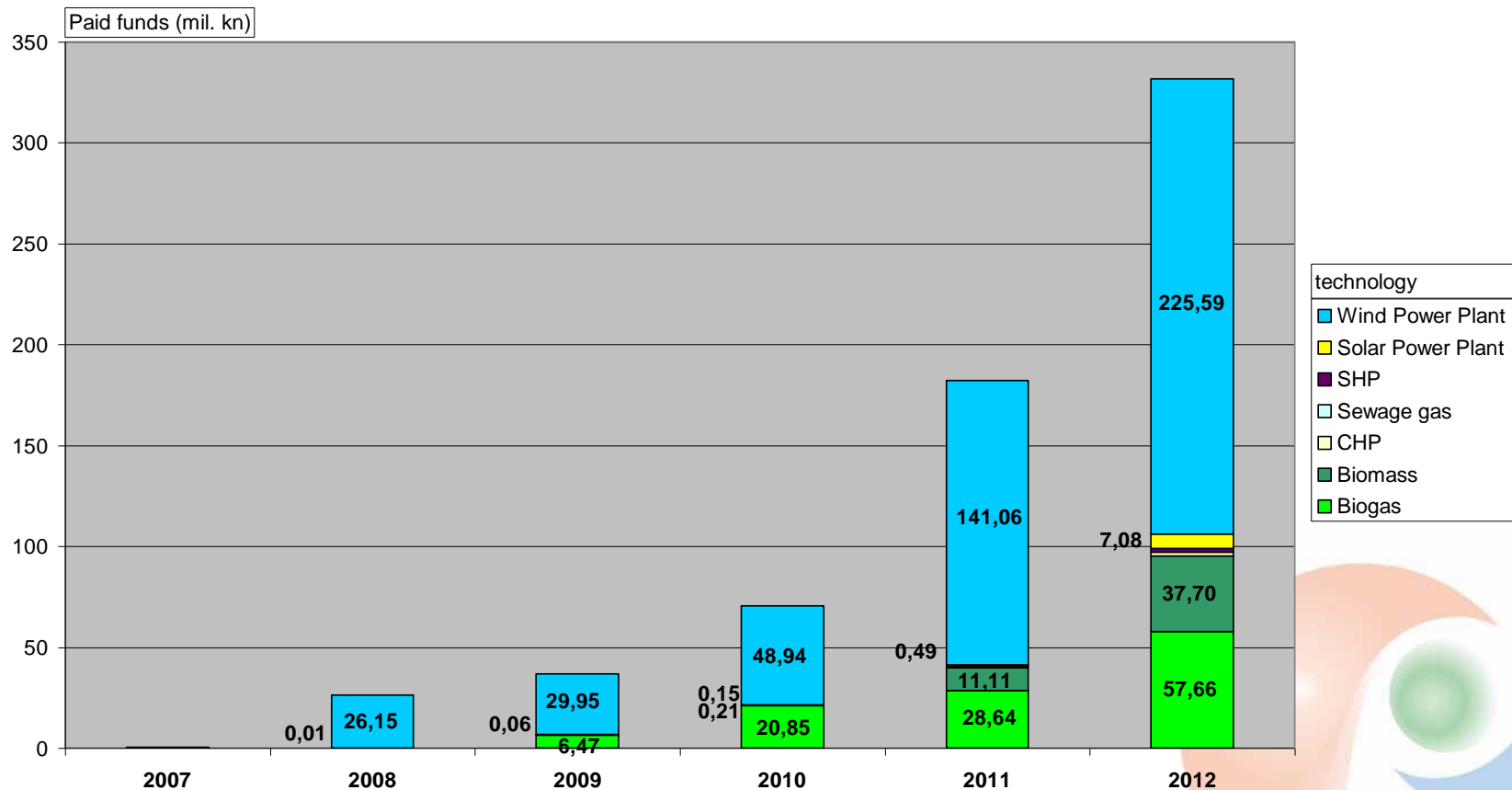


## Collected and paid funds 2007-2012





# Paid funds to eligible producers regarding the technologies 2007 - 2012





**HROTE** HRVATSKI OPERATOR  
TRŽIŠTA ENERGIJE d.o.o.  
CROATIAN ENERGY MARKET OPERATOR Ltd.

## CROATIAN POWER EXCHANGE ESTABLISHMENT




### status of play

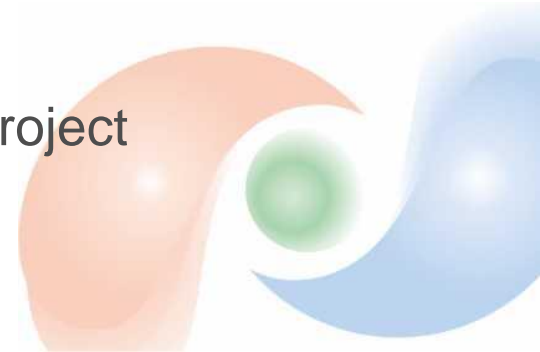
-  According to existing regulatory licence and recently adopted Electricity Market Act in February 2013, HROTE is responsible for establishing and operating Croatian power exchange
-  HROTE is fully committed to establish and operate Croatian power exchange and then couple its spot market with neighbouring EU markets
-  HROTE became full member of EUROPEX on May 3rd 2013
-  HROTE declared interest to join PCR (Price Coupling of Regions), expected to receive PCR project management positive reply soon



**HROTE** HRVATSKI OPERATOR  
TRŽIŠTA ENERGIJE d.o.o.  
CROATIAN ENERGY MARKET OPERATOR Ltd.

## **CROATIAN POWER EXCHANGE ESTABLISHMENT implementation of CROPEX project**

-  HROTE is currently making discussions and analyses needed before start up of CROPEX project implementation phase
  
-  HROTE's following input elements of:
  - current status of DAM & ID Target model in EU as well as PCR project
  - experiences from completed market coupling projects in EU
  - end of 2014 as set a deadline for Target model implementation in EU
  - CROPEX establishment and its market coupling with neighbouring EU countries (Slovenia & Hungary: individually or both in same time)
  - time constraints
  
-  HROTE is expecting to define and start up project implementation phase in September 2013









**HROTE** HRVATSKI OPERATOR  
TRŽIŠTA ENERGIJE d.o.o.  
CROATIAN ENERGY MARKET OPERATOR Ltd.

# Thank you for your attention!

Hrvatski operator tržišta energije d.o.o.  
Croatian Energy Market Operator

Miramarska 23  
10000 Zagreb, Croatia

 +385 1 63 06 700

 +385 1 63 06 777

 hrote@hrote.hr

 www.hrote.hr

