

RENEWABLE ENERGY AUCTION

2,000 MW



APPLICABLE LEGISLATION

Law 24/2013, of 26 December, of the Electrical Sector

Royal Decree 413/2014, of 6 June, that regulates the activity of electric power production from renewable sources, cogeneration and residues.

Royal Decree 359/2017, of 31 March, that establishes a call for granting the specific retributive regime to new electric production installations from renewable energy sources in mainland Spain electrical system.

Establishes the maximum capacity to be auctioned.

Order ETU/315/2017, of 6 April, that regulates the procedure of allocation of the specific retributive regime in the call for new electric production installations from renewable energy sources, convened under the Royal Decree 359/2017, of 31 March, and approves its retributive parameters.

Establishes the mechanism of allocation of the specific retributive regime and the applicable retributive parameters.

Resolution of 10 April 2017, of the Secretary of State for Energy, that establishes the procedure and rules of the auction for the allocation of the specific retributive regime to new electric production installations from renewable energy sources, convened in accordance with the Royal Decree 359/2017, of 31 March, and in the Order ETU/315/2017, of 6 April.

Resolution rules.

Establishes the auction rules.

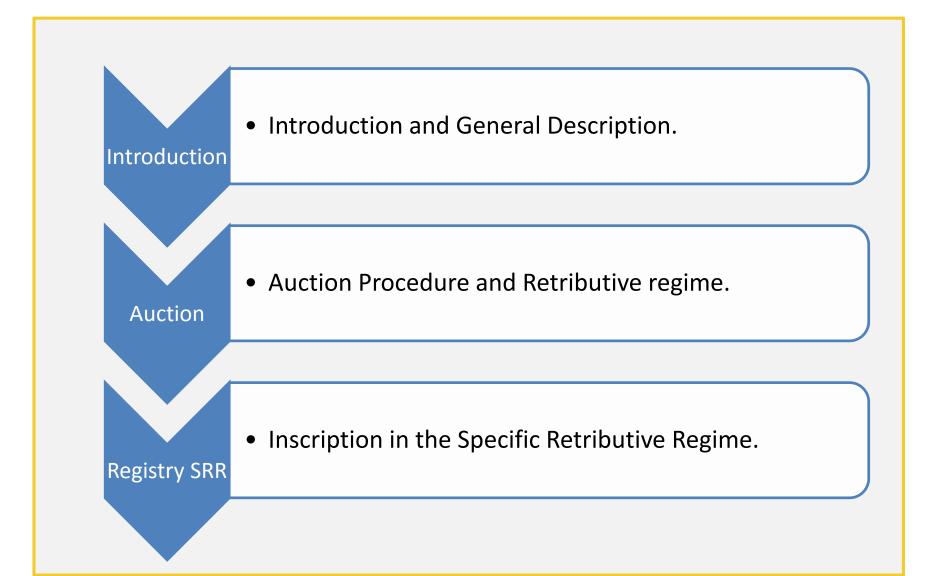
Resolution of 10 April 2017, of the Secretary of State for Energy, that convenes the auction for the allocation of the specific retributive regime to new electric production installations from renewable energy sources in accordance with the Order ETU/315/2017, of 6 April.

Resolution call

Establishes, among other issues, the auction date, the schedule and the capacity to be auctioned.

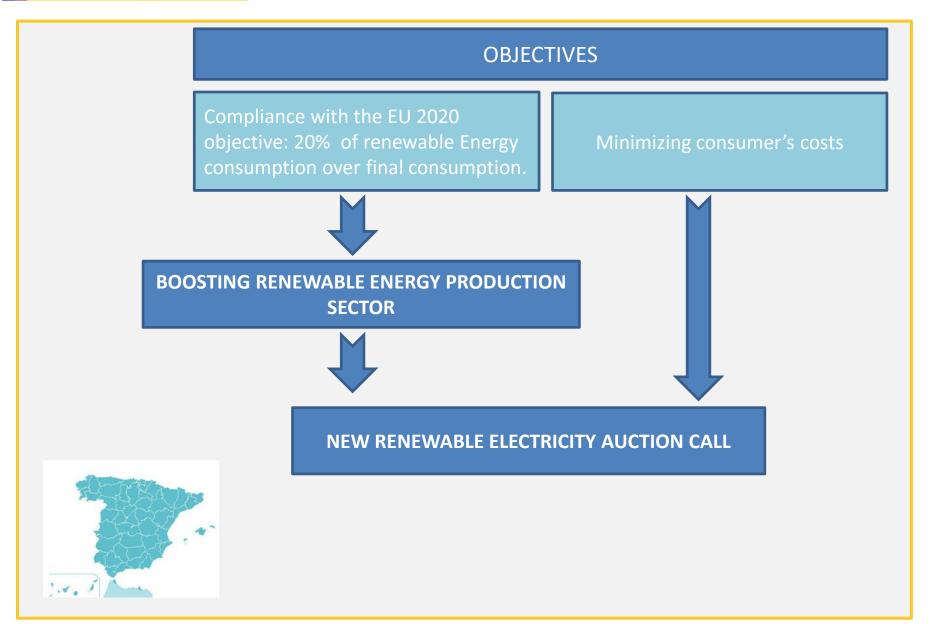


ORGANIZATION OF THE PRESENTATION











- The <u>objective</u> is the <u>assignation</u> of the right of perception of the specific retributive regime up to a <u>capacity quota</u> of renewable installations.
- The <u>allocation</u> of this economic right will be decided through an auction mechanism.
- It will be a <u>technology neutral auction</u> (open to all renewable technologies and without stablished capacity quotas per technology).
- Each individual bid will offer a <u>reduction percentage</u> over the <u>Standard Value</u> of the Initial Investment on the Reference Standard Installation
- The main procedure phases will be:





SCOPE (2ºSection - Royal Decree 359/2017)

- Installations in the Mainland Spain Electrical System.
- <u>Category b installations</u> (article 2 Royal Decree 413/2014 of 6 June): installations that use as primary energy any of the renewable energies:
 - Photovoltaic.
 - Wind.
 - Other renewable technologies.
- Only for new installations:
 - Without definitive exploitation authorization.

and

 Not registered before the 2 April 2017 in the administrative regime of Electrical production installations.



EXCLUSIONS TO THE SCOPE (2° Section Royal Decree 359/2017)

The specific retributive regime cannot be granted to:

- Installations which construction implies the <u>closure or capacity reduction</u> of other installations of the same technology.
- Installations built from main equipment <u>previously used or not brand new</u>.



OTHER EXCLUSIONS TO THE SCOPE (2nd Section Royal Decree 359/2017)

The specific retributive regime <u>cannot be granted</u> to those:

- Considered as companies in difficulty as defined in the EU Guidelines on State Aid for rescuing and restructuring <u>undertakings in difficulty</u> (DO C244, October 2004).
- Undertakings subject to a <u>pending recovery order</u> after a previous Decision from the European Commission that has declared an Aid to the beneficiary illegal and incompatible with the common market.

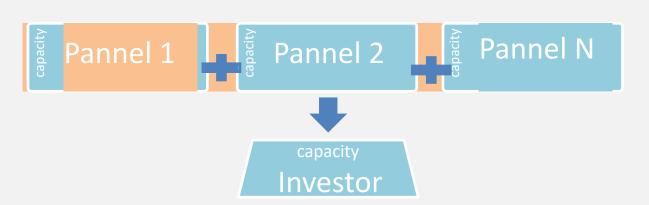


INSTALLED CAPACITY

- The auction is for installed capacity in accordance with the definition of installed capacity from Article 3 of Royal Decree 413/2014, of 6 June (Call for 2,000 MW)
 - Installations with equipments in series: installed capacity will be the minor capacity from that specified in the plate of characteristics



Photovoltaic installations: Installed capacity will be the total of the maximum unitary capacities of the photovoltaic installed.









 The auction will be the right to perceive the specific retributive regime for new installed capacity.

Amount to be auctioned

Maximum amount

2,000 MW

Auction result

- The resulting capacity for each participant and technology.
- The reduction percentage of the standard value of the initial investment of the Reference Type Installation (RTI).



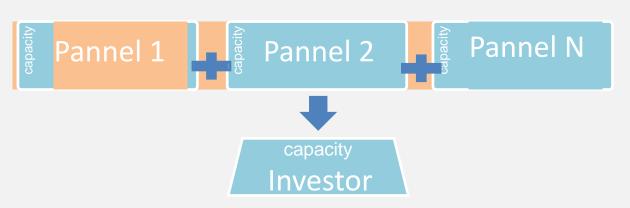
EXPLANATORY NOTE

INSTALLED CAPACITY

- The offers submitted will be based on the <u>installed capacity</u> according to the definition of installed capacity of Article 3 of Royal Decree 413/2014, of 6 June (Call Order 2,000 MW)
 - Installations with equipments in series: installed capacity will be the minor capacity from those specified in the plate of characteristics.



Photovoltaic installations: Installed capacity will be the total of the maximum unitary capacities of the photovoltaic modules installed.





RETRIBUTIVE PARAMETERS

- The <u>Reference Type Installations</u> (RTI) and its retributive parameters are defined.
- The resulting <u>values of the retributive parameters</u> of each Type Installation (TI) will be obtained from the retributive parameters of the RTI and the auction results.

Reference Type Installations Order ETU/315/2017 Auction result

Type Installations



RETRIBUTIVE PARAMETERS OF THE REFERENCE TYPE INSTALLATION (RTI)

The following parameters are considered (art. 4 Order ETU/315/2017):

Reference type installation

Wind technology

Photovoltaic technology

Rest of technologies

RTI

- a) Regulatory life span: 25 years for all the technologies.
- b) Standard value of the initial investment of the RTI.
- c) Amount of equivalent operating hours.
- d) Expected reference price for the sale of electricity.
- e) Upper and lower limits of market price.
- f) Applied coefficient of the reference price to estimate the exploitation revenues from sale of energy.
- g) Minimum amount of equivalent operating hours per year, annual operating threshold and percentages.
- h) Exploitation costs.
- i) Investment return of the reference type installation.
- i)) Reference value for the RTI.

Different values of the retributive parameters for a RTI will be established on the basis of the year for the definitive exploitation.



- RTIs have a group of retributive parameters associated to each authorisation year of definitive exploitation.
- These retributive parameters are established in Annex I of Order ETU/315/2017

Techno logies	Code	Year	Life span	Standard value initial investme nt (€/MW)	Amount of equivalent or functionin g hours	Exploit ation costs (€/MWh)	Amount of equivalent or functioning hours Minimum	Functioni i ng threshold	Investment return (€/MWh) Rinv πR_Ja	Unitary overcost - RTI (€) upo ae referenciaı
Wind		2017	25	1.200.000	3.000	20,52	3.000	0	47.684	15,89
VVIIIG	ITR-0103	2018	25	1.200.000	3.000	20,57	3.000	0	46.578	15,53
		2019	25	1.200.000	3.000	20,72	3.000	0	45.056	15,02
		2017	25	1.200.000	2.367	21,46	2.367	0	39.646	16,75
PV	ITR-0104	2018	25	1.200.000	2.367	21,49	2.367	0	38.480	16,26
		2019	25	1.200.000	2.367	21,63	2.367	0	36.908	15,59
All others	ITR-0105	2017	25	2.000.000	5.000	39,55	5.000	0	148.875	29,78
		2018	25	2.000.000	5.000	39,79	5.000	0	147.655	29,53
		2019	25	2.000.000	5.000	40,12	5.000	0	145.636	29,13

_	
	(€) MITR_j,a
	115.786
	115.786
	115.786
	115.786
	115.786
	115.786
	192.977
	192.977
	192.977

MITR_ia: Calculation of the investment return for the TI associated to the RTI "j" with a given year of exploitation permit "a"

¹ Unitary over cost of the RTI is calculated dividing the Investment return of the RTI for a giver year by the amount of equivalent functioning hours for that year.



RETRIBUTIVE REGIME

- Retributive parameters for each TI will be calculated on the basis of the parameters of the respective RTI and the auction results.
- Retributive parameters for each TI will be the same as those for the RTI, except for the standard value of the initial investment and the investment compensation:
 - The standard value for the initial investment of each TI will be calculated applying the reduction percentage obtained in the auction to the standard value of the initial investment of the RTI.
 - The investment return of each TI will be obtained applying to these parameters the methodology as defined in Royal Decree 413/2014 and the simplified formula in Annex I of Order ETU/315/2017 for 2017 to 2019:

For a given year "a":

Rinv_{IT ia} = Rinv_{ITR ia} - m_{ITR ia} * Red_{ITR i}

- The value of the investment return <u>cannot</u> <u>be negative</u>.
- The retributive parameters of the TI will be revised and updated in accordance with Law 24/2013 and Royal Decree 413/2014.



CHARACTERISTICS OF THE AUCTION

- Participants will <u>present</u>:
 - A Guarantee of deposit of 60 €/KW
 - The rest of the mandatory documents in accordance with ETU/315/2017
- The bids will be submitted in a <u>closed envelope</u> and decided through marginal system.
- The product to be auctioned will be the right to perceive the specific retributive regime up to the allotted installed capacity.
- It will be implemented by electronic means.
- The offers will be presented in reference to the RTI of each respective technology.
- The participants will offer a reduction <u>percentage over the initial investment</u> <u>value</u> for the respective RTI for which it intends to present.
- The offers will not have to identify the individual installations.



OMIE (1)	Entity charged with the auction: it will pre-qualify the participants, receive the offers, verify compliance with the established requirements and calculate the auction results.
CNMC (2)	Auction proceeds supervisión: will ensure fair competition among participanst and transparent and non discriminatory results.

An auction cost of 0.08€/KW will be charged to each successfull participan as section 6 of ETU/315/2017

- 1. OMIE: manages the entirety of the markets (daily and intraday) for the whole of the Iberian Peninsula, and its operating model is the same as the one applied by many other European markets. http://www.omie.es/en/home/information-company
- 2. CNMC: Spanish National Markets and Competition Commission



AUCTION PARTICIPATION APPLICATION

1

• Pre-qualification phase

- Interested subjects will present the necessary documents
- OMIE will decide on the compliance

2

Qualification phase

- Once the requirements fulfilled, prequalified subjects will have to comply with the necessary requirements for this phase
- Present their tenders and submit their participation guarantee.

- The application will be submitted by electronic means.
- Together with the participation guarantee (60€/KW).

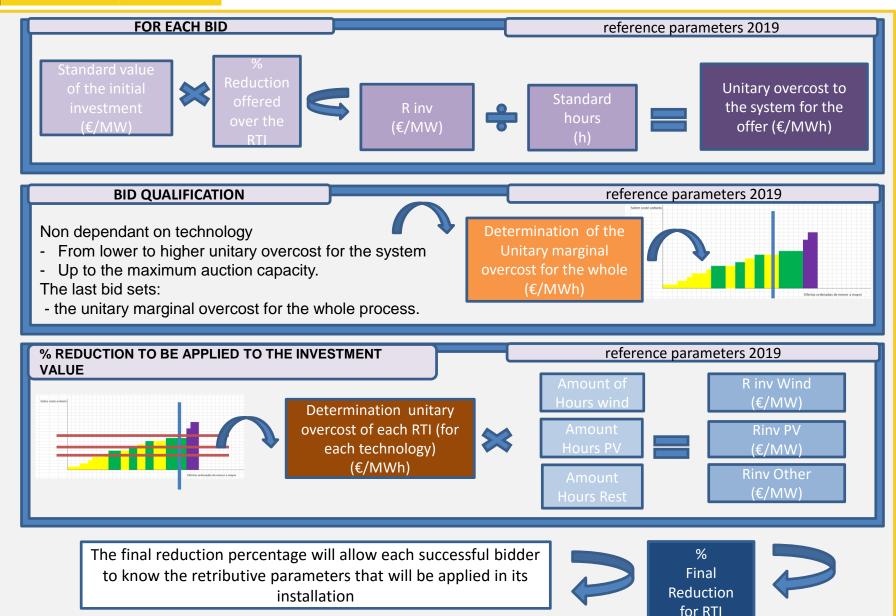




SUBMISSION OF TENDERS

- An offer per RTI per participant.
- Each offer may present up to 40 sections.
- Each section will be presented with an specific capacity and a reduction percentage of the standard value of the initial investment of the RTI.
- The maximum amount to be offered in an indivisible section is 200 MW (Point 15,1 Rules Resolution)
- Reduction percentages shall be defined with 2 decimal places in a range between the minimum and the maximum value as indicated in Section 5 of the Call Resolution.







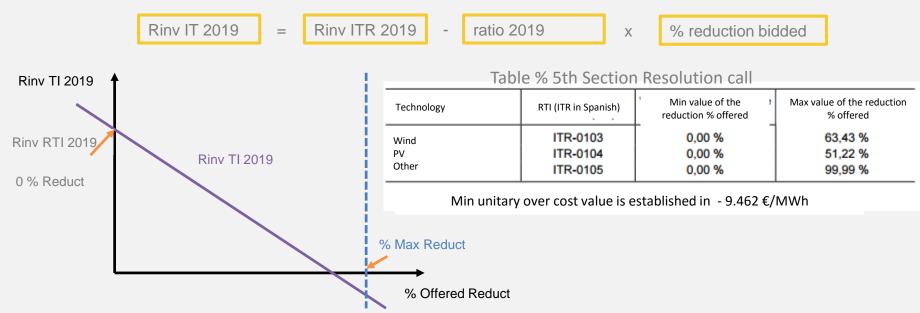
AWARDING CAPACITY AND CALCULATION OF PARAMETERS

- For each bid: calculation of the investment revenues of the TI 2019 (Rinv TI 2019).
- For each bid: calculation of the unitary overcost for the system (UOS).
- Bid evaluation and capacity assignment.
 - Calculation of the marginal unitary overcost resulting from the assignment process
- Calculation of the marginal unitary overcost of each RTI
 - Calculation of the investment retribution for each TI 2019 resulting from the auction (Rinv IT S2019).
 - Calculation of the reduction percentage of the standard value of the initial investment for each RTI resulting from the auction (% RED RTI).



1.- FOR EACH BID: CALCULATION OF THE INVESTMENT RETRIBUTION OF THE TI 2019 (Rinv TI 2019) (I)

 methodology established in the RD 413/2014, specified in Annex VI and Annex I of Order ETU/315/2017.

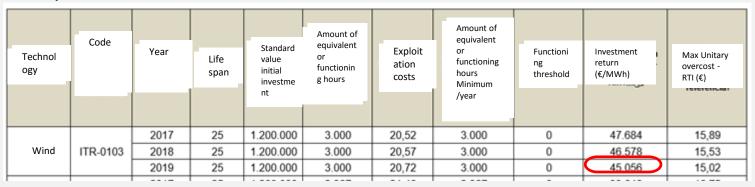


It will be possible to give negative values to the investment retribution due to the implementation of the previous formula, only to the effects of the assignation process



1.- FOR EACH BID:CALCULATION OF THE INVESTMENT RETRIBUTION FOR THE TI 2019 (Rinv TI 2019) (II)

Example: Presentation of a wind bid



Technology	Code RTI (ITR in Spanish)	Group/Subgroup (Art. 2 Real Decreto 413/2014)	Year	Code	М ITR_j,а
			2017	IT-04013	115.786
Wind	ITR-0103	b.2	2018	IT-04014	115.786
			2019	IT-04015	115.786

Rinv TI 2019 = Rinv RTI 2019 - ratio 2019 x % reduct. bidded

Rinv RTI 2019 = 45,056

Ration 2019 = 115,786

% Reduct. Bidded = 10%

Rinv TI 2019 for this participant= 33,477.400



2.- FOR EACH BID: CALCULATION OF UNITARY OVERCOST FOR THE SYSTEM (CUOS)

[Art.14.2.b) Order] Calculated as:

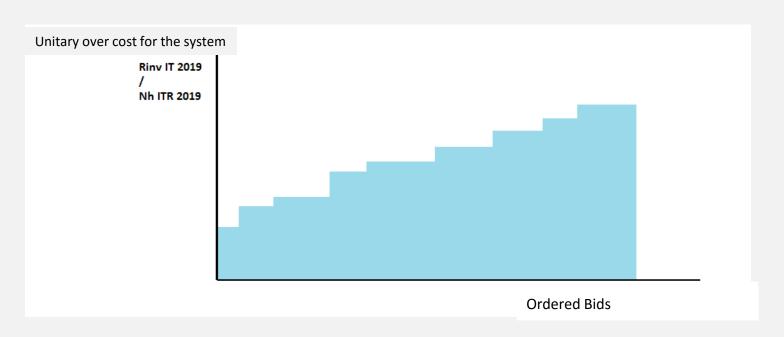
Example: Presentation of a wind bid

Technol ogy	Code	Year	Life span	Standard value initial investme nt	Amount of equivalent or functionin g hours t	Exploit ation costs	Amount of equivalent or functioning hours Minimum /year	Functioni ng threshold	Investment return (€/MWh)	Max Unitary overcost - RTI (€)
		2017	25	1.200.000	3.000	20,52	3.000	0	47.684	15,89
Wind	ITR-0103	2018	25	1.200.000	3.000	20,57	3.000	0	46.578	15,53
		2019	25	1.200.000	3.000	20,72	3.000	0	45.056	15,02
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3.- BID EVALUATION AND CAPACITY ASSIGNMENT

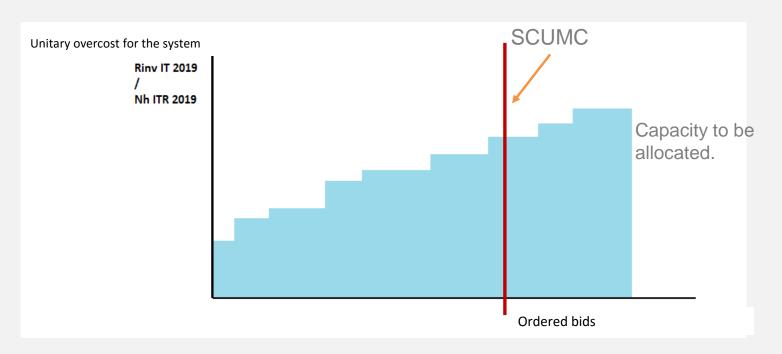
- [Art.14.2.c) Order] Bids will be evaluated, from the lower to the higher CUOS calculated value. The successful bids will be those with a lower value until the capacity to be allocated (2,000 MW) is reached.
- Criteria for solving tie-breaks are explained in the bid rules .
- the awarded capacity to each participant isobtained





4.- CALCULATION OF THE MARGINAL UNITARY COVERCOST RESULTING FROM THE "CASACION"

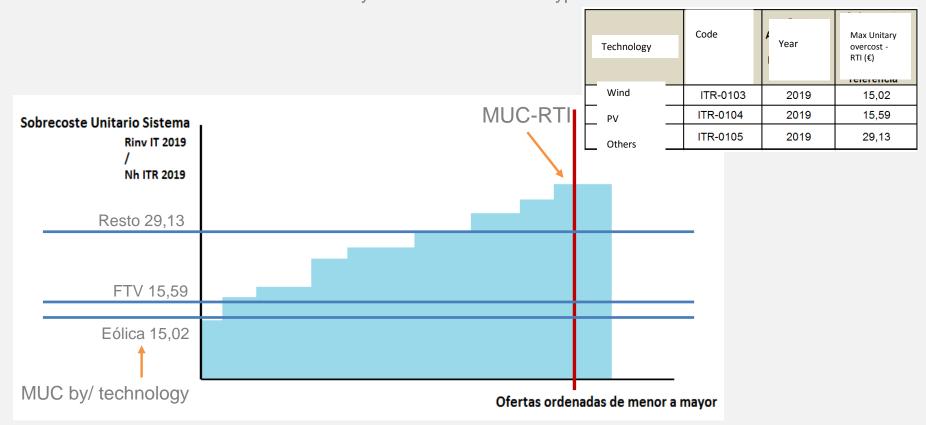
The SCUMC is obtained according to the rules Resolution.





5.- CALCULATION OF THE MARGINAL UNITARY COVERCOST OF EACH RTI (MUC-RTI)

- [Art.14.2.e) Order] SCUMUC-RTI is calculated as the minimum value resulting from:
 - Value of the marginal unitary cost (MUC).
 - Value of the máximum unitary cost of the reference type installation





6.- CALCULATION OF THE INVESTMENT RETRIBUTION FOR EACH TI 2019 RESULTING FROM THE AUCTION (RINV IT S2019).

[Art.14.2.f) Order] It will be calculated as:

Rinv TI S2019

CUOM RTI

Nh RTI 2019



AUCTION PROCEDURE (CALCULATION OF PARAMETERS)

7.- CALCULATION OF THE REDUCTION PERCENTAGE OF THE STANDARD VALUE OF THE INITIAL INVESTMENT FOR EACH RTI RESULTING FROM THE AUCTION (% RED RTI).

• [Art.14.2.g) Order] From the R inv TI S2019 value and the R inv RTI 2019 value, the reduction % of the standard initial investment value of each installation will be calculated in accordance with the results of the auction and using the symplified expression from section 3 of Annex I of the Order:



% with 2 decimal places



AUCTION PROCEDURE (FINAL)

AUCTION RESULT

- The auction will decide:
 - The <u>assigned capacity</u> to each participant for each technology.
 - The <u>reduction</u> % of the standard value for the initial RTI investment.
- For each TI will be calculated:
 - The value of the initial investment.
 - The <u>investment retribution</u>.
 - The rest of the retributive parameters.
- The auction awarding will implies, once presented the economic guarantee to the Spanish General Savings Deposit, and once the holder has submitted the application, the right of inscription of the awarded capacity into the Registry of the specific retributive regime in status of pre-assignation.
- The <u>corresponding TI will be assigned</u> in accordance with the authorisation year for the definitive exploitation of the installation,.



ACLARATORY NOTE ON THE GUARANTEES

GUARANTEE
FOR THE
PARTICIPATION
IN THE
AUCTION

- It will be presented to OMIE to enable participation in the auction.
- 60 €/KW.
- It will be returned to the non awarded stakeholders after the finalisation of the auction.
- It will be returned to the awarded stakeholders from the moment they register in the Registry SRR Pre assignation.
- It will be executed (total/partial) if the registry requirements in the Registry are not fulfilled.

GUARANTEE FOR THE INSCRIPTION IN THE SRR-E

- It will be presented to the Spanish General Savings Deposit in order to enable register into the SRR Registry Pre assignation.
- 60 €/KW.
- It will be returned/executed in phases with the fulfilment of established intermediate steps.
- Final return will take place with the definitive registration into the Registry SRR - E (exploitation)

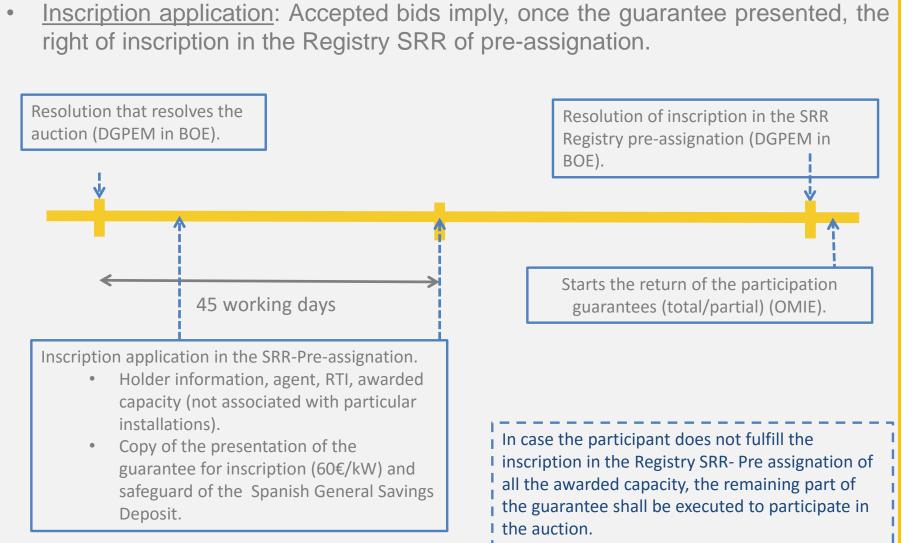


INSCRIPTION IN THE SPECIFIC RETRIBUTIVE REGIME



INSCRIPTION IN THE SPECIFIC RETRIBUTIVE REGIME (SRR-PREASSIGNATION)

right of inscription in the Registry SRR of pre-assignation.



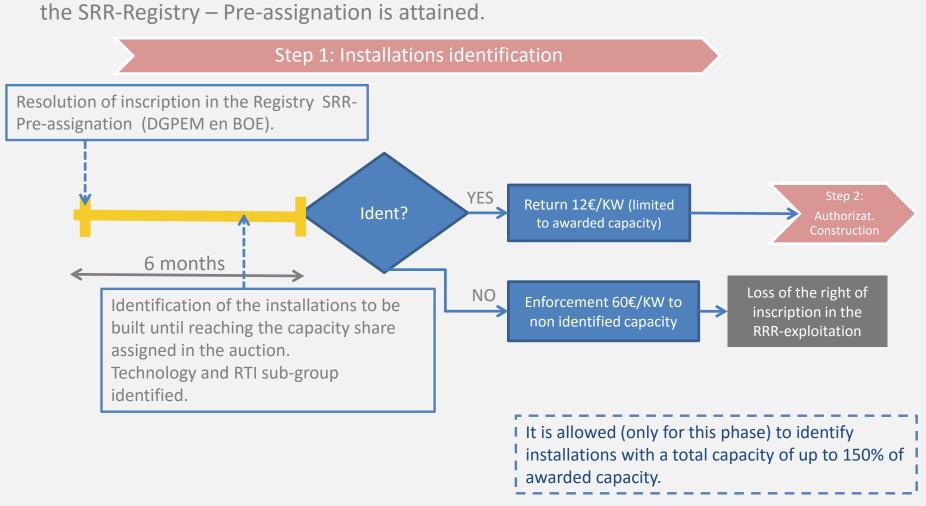


- Once registered in the Registry of the Retributive regime as pre-assigned status, several intermediate steps will have to be complied with.
- This compliance will have effects on the :
 - Guarantee (cancelation or execution total or partial).
 - The economic rights (inscription in the SRR Registry-exploitation)



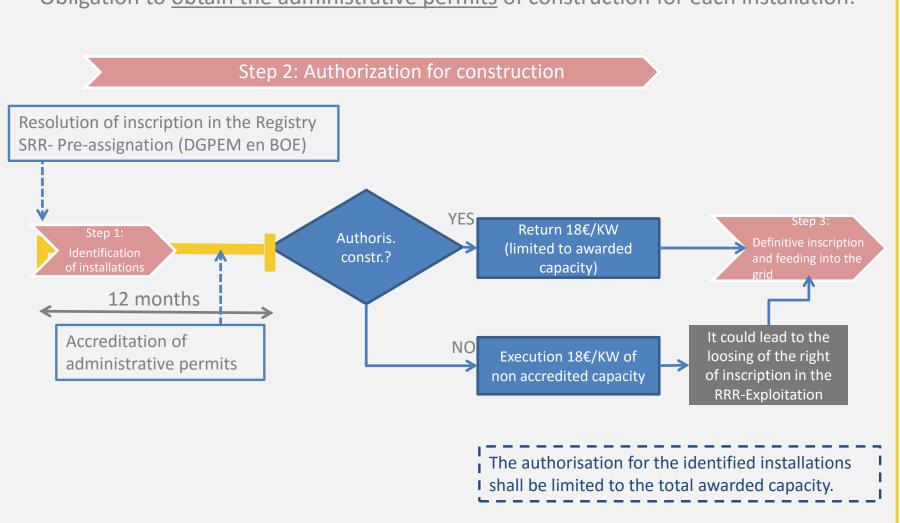


• Obligation to identify the installation/s to be built until the capacity share registered in the SRR-Registry – Pre-assignation is attained.





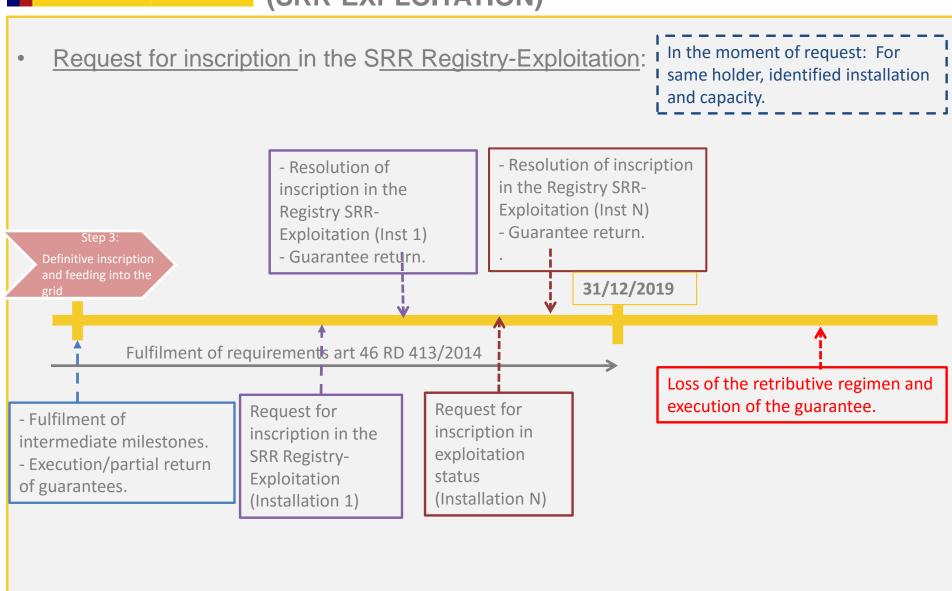
• Obligation to obtain the administrative permits of construction for each installation:





Obligation to register in the administrative registry for electric power production installations and feeding into the grid: Step 3: Def. insciption and feeding into the grid I Complying with requirements of art. 46 and 47 Royal Decree 413/2014, of 6 I June. Construction REturn 30€/KW Return 18€/KW (limited to awarded (limited to awarded capacity) capacity) Inscrip. YES Registry SRRand **Exploitation** Execution 18€/KW (to non awarded capacity) It will loose the right of NO Enforcement 30€/KW inscription in the RRR-(to awarded capacity non Exploitation for the non built) built capacity Built installation, certification of feeding into the grid, and I registered in the Administrative Registry of Installations of electric power production (art. 46 and 47 Royal Decree 413/2014)







LOSS OF THE SPECIFIC RETRIBUTIVE REGIMEN

- Total: in case of non compliance with art. 46 RD 413/2014 on time (deadline 31/12/2019).
- Partial: To non built capacity.
- Execution: It will imply the loss of the rights associated to the retributive regime and the execution of the guarantee.
- The cancelation procedure by non-compliance shall be implemented in accordance with art.48.



REGISTRATION PROCEDURE IN THE SRR- EXPLOITATION REGISTRY

- In agreement with art. 47 Royal Decree 413/2014, of 6 June.
- Complying with art. 46 Royal Decree 413/2014, of 6 June.
 - Finalization of installations on due time.
 - Registration in the Administrative Registry of electric power production Installations
 - The start of energy supply
- Registration application in exploitation status will include:
 - Responsible statement that the installation is a new installation and that is included in the scope of the call.
 - Responsible statement that the Company is not in difficulty situation, and has not received public financing.



The <u>installation or installations for which the registration</u> in the Registry of specific retributive regime in exploitation status is requested, <u>shall</u>:

- Match the installation or installations <u>previously identified</u>.
- Have the same holder as stated, in that moment, in the Registry of SRR- Preassignation.
- <u>Installed capacity</u> will be no higher than the capacity of the installations previously identified, nor than the registered capacity in the Registry SRR-Pre-assignation.
- TI for which it is requested, will have to be concordant with the pre-assigned RTI.
- Have the same <u>technology</u>, category and <u>reference type installation</u>.

The installation will be assigned to the corresponding type installation according to the RTI and the year of the authorization of the definitive exploitation of the installation.

• Example: Wind installation with year of authorisation of definitive exploitation: 2018, gets TI-4014.

Tecnología¤	Código·de· Identificación·de·la· Instalación·Tipo·de· Referencia¤	Año·de· Autorización·de· Explotación· Definitiva·"a"¤	Subgrupo·(Art.·2· Real·Decreto· 413/2014)¤	Código·de· Identificación·de· Ia·Instalación· Tipo¤	Mur _e ia ⁿ
		2017¤	b.2.1¤	IT-04013¤	115.786¤
Eólica¤	ITR-0103¤	2018¤	b.2.1¤	IT-04014¤	115.786¤
		2019¤	b.2.1¤	IT-04015¤	115.786¤

Thank you very much