

HORIZON  
2020

# Auctions for Renewable Energy Support II

## Ergebnisse

### Projektinformationen

#### AURES II

ID Finanzhilfvereinbarung: 817619

[Projektwebsite](#) 

#### DOI

[10.3030/817619](https://doi.org/10.3030/817619) 

Projekt abgeschlossen

#### EK-Unterschriftsdatum

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SOCIETAL CHALLENGES - Secure, clean and efficient energy

#### Gesamtkosten

€ 2 594 057,50

#### EU-Beitrag

€ 2 594 057,50

#### Koordiniert durch

FRAUNHOFER GESELLSCHAFT  
ZUR FORDERUNG DER  
ANGEWANDTEN FORSCHUNG  
EV




Deutschland

Dieses Projekt findet Erwähnung in ...



## Hindernisse für die Akzeptanz sauberer Energielösungen in Europa überwinden

CORDIS bietet Links zu öffentlichen Ergebnissen und Veröffentlichungen von HORIZONT-Projekten.

Links zu Ergebnissen und Veröffentlichungen von RP7-Projekten sowie Links zu einigen Typen spezifischer Ergebnisse wie Datensätzen und Software werden dynamisch von [OpenAIRE](#)  abgerufen.

## Leistungen

### Dokumente, Berichte (31)

#### [Case study reports on planned auctions](#)

This report comprises 46 case studies on auction schemes which are in the planning phase detailing their design and assessing their expected performance where possible It is related to task 22

#### [Research paper on auction results and RES financing](#)

This research paper is based on the results of tasks 51 and 52 It will be submitted to a peerreviewed scientific journal by month 32

#### [Executive summary of project results](#)

In order to ensure a wider accessibility and circulation of the projects main findings the results outlined in key deliverable will be summarised in 37 standalone short documents aimed at presenting the project to a nonspecialised audience Each summary will be 2 pages long and will include an infographic section These policy briefs will be focused on the application of the project outcomes and will suggest concrete recommendations to policymakers and industry stakeholders It is part of task 103

#### [Final dissemination report](#)

This report recaps the projects dissemination activities in the second reporting period It is part of task 101

#### [Project Identity Package](#)

This deliverable is related to task 10.2 and includes a logo, font, colour palette, as well as templates for deliverables. The project identity will be graphically connected with the previous AURES project in order to ensure recognizability, but will be updated and refreshed.

#### [Policy briefs on case cooperations](#)

These policy briefs Detail the results from the case cooperations with policy makers as described in task 23 Each consortium partner REKK DTU Ecofys TU Wien drafts the brief for their respective cooperation case

#### [Guidance document on cross-border auctions](#)

This final document of WP6 summarises the findings and provides concise and concrete guidance to policy makers regarding cross-border auctions. It is part of task 6.5.

#### [Synthesis report tasks 2.1 and 2.2](#)

This report provides an overview and identifies overarching issues and lessons learnt from all case studies in WP3. It is based on the individual case studies presented in D2.1 and D2.2.

#### [Report on qualitative scenarios](#)

This report is linked to task 7.2. It describes and analyses qualitative scenarios for future energy systems and outlines the consequences for auctions.

#### [Report on country-specific and European case studies](#)

This report is linked to tasks 6.3 and 6.4. It covers the case studies carried out on cross-border auctions on country and European level

#### [Report on design options for cross-border auctions](#)

This report addresses auctions in which two more countries are involved and lists and explains relevant design options. It is the result of work carried out in task 7.1.

#### [Policy brief on the model-based assessment of phasing out RES support](#)

This report is thematically related to the topics covered in tasks 72 and 73 but takes a quantitative modelling perspective It is thus covered under task 84

#### [Report on technology biases in technology-neutral auctions](#)

The content of this report is linked to task 7.1, but covers the topic from a modelling perspective and is thus part of task 8.1.

#### [Report on multi-technology auctions](#)

This report is linked to task 7.1. It covers theoretical and empirical aspects of multi-technology auctions.

#### [Report on design elements affecting financing](#)

This report contains the findings of task 6.1 and provides inputs to task 6.3 which will develop auction designs that are compatible with financing.

#### [Report on auction design recommendations compatible with financing](#)

This report provides concise auction design recommendations for policy makers, based on the results of WP5.

#### [Technical report on modelling of RES auctions](#)

This report is related to all tasks of WP8 It describes the technical details of all modelling works carried out in this WP

#### [Report on survey results and cash flow simulations: Risk landscape in the EU in relation to auctions](#)

This report is linked to task 5.2. It will present the results of the empirical assessment carried out regarding auctions designs and their effects on Stakeholders and risk assessment.

#### [Interim Dissemination Report](#)

This report is linked to task 10.1 and will recap the dissemination activities over the first reporting period.

#### [Recommendations on the future of auctions](#)

This report provides concise policy recommendations regarding auctions in changing energy systems of the future It is related to task 73

#### [Report - Effects of auctions on RES value chains](#)

This report is the result of tasks 4.1 and 4.2 and provides a theoretical as well as an empirical view of the effects of auctions on RES value chains.

#### [Summary report](#)

The results obtained throughout the project such as lessons learnt identified best practices evaluations of policy packages under specific criteria and market conditions will be embedded into a larger context taking into account developments in the policy environment Energy Community harmonisation and crossborder cooperation among Member States and technological progress cost reductions of RES smart markets blockchain etc All project results shall be consolidated into this final report It is the output of both tasks 91 and 92 Policy recommendations will be developed from this The report will also provide major input to the final conference

#### [Two peer-reviewed papers on the quantitative analysis of auction results](#)

Two peer-reviewed papers shall be submitted to scientific Journals. The first paper will be submitted by month 18, the second paper by month 33. Both papers are part of task 3.2 and deal with the quantitative analysis of auction results as shown in the auction database.

#### [Report - Effects of auctions on technological innovation](#)

This report results from task 4.3. It includes policy recommendations on how auctions can be designed to be aligned with policymakers' objectives regarding technological innovation.

#### [Case study reports on existing auctions](#)

This report comprises 12 case studies on the design and performance of past and ongoing auction schemes. It is linked to task 2.1.

#### [Briefing paper \(effects of auctions on RES communities; measures to protect RES communities\)](#)

This is a combined deliverable from the outputs of task 2.1 and 4.1, focussing on the effect auctions have on RES communities and on measures to protect RES communities.

#### [Three to seven ad-hoc policy briefings](#)

Based on the Information collected for the online database particularly interesting cases of auction implementation will be covered in more detail in adhoc policy briefings This serves to provide timely and concise Information to Stakeholders The briefings are the output of task 33

#### [Report on auction-theoretical aspects](#)

This report covers the auction-theoretical basis of cross-border auctions. It is linked to task 7.2.

#### [Research paper on multi-technology auctions](#)

This research paper will be submitted to a scientific peer-reviewed journal by month 16. It is linked to task 7.1 and covers auctions in which two or more technologies compete against each other.

#### [Policy brief on the model-based assessment of financing aspects of RES auctions](#)

The content of this report is linked to WP5 However it focusses on the modelling perspective and is thus part of task 85

#### [Policy brief on cross-border and European RES auctions](#)

This report is connected to the topics covered in WP6 ie crossborder auctions However it focuses on a modelling perspective and is thus the output of tasks 82 and 83

## Websites, Patentanmeldungen, Videos etc. (18)

### [Webinar series](#)

At least 9 webinars will be offered throughout the project related to various WPs The series is part of task 104 To minimise costs and maximise outreach the webinars will be hosted by the webinar platform Leonardo Energy as an AURES II series WP11 will contribute to the dissemination of the webinars especially through the website and social media The complete series of webinars will be collected in a final deliverable at the end of the project Webinars foreseen in the series include Auction Database and first results of quantitative analysis Modelling of crossborder and European RES auctions Guidance on crossborder auctions in Europe Technologybasket and technologynneutral auctions Monitoring of auction implementation existing and planned auction schemes Effects of auctions on RES value chains communities and technological innovation Final results on auctions impact on financing and auction design recommendations The future of auctions Summary webinar all project results

### [Expert talk with EC on modelling cross-border auctions](#)

This workshop/expert talk with the EC is part of task 10.4. It will be held in Brussels and will deal with modelling issues regarding cross-border auctions. Regarding it's content, it is thus related to both WP6 and WP8.

### [Expert talk - Beyond auctions? Scenarios for renewables in a changing electricity system](#)

This Workshop/expert talk is covered under task 10.4. It's content is linked to task 7.2 where the need for and design of auctions in a variety of qualitative future scenarios are discussed. It is foreseen to take place in Brussels.

### [Workshop - Final results on auction financing, and auction design recommendations](#)

This workshop is part of task 104 but its content is related to WP5 with a focus on task 53 It will be held in Brussels and presents the final results regarding financing

### [Regional Workshop 3](#)

This is one of at least 6 regional workshops which are part of task 10.4 and will be held in order to communicate project results and involve relevant stakeholders. Tentative locations for this series of workshops are Copenhagen, Berlin, Vienna, Madrid, London, and Budapest.



#### [Final Conference](#)

The final conference presents project results and contributions from external speakers to an audience of stakeholders. The conference will be held in Brussels and is part of task 104.

#### [Workshop - Beyond auctions? Routes to market and auction designs under a changing electricity system](#)

This Workshop is part of task 104 but its content is related to WP7. Based on the qualitative scenarios developed in task 72, task 73 will develop policy recommendations for future auctions in changing electricity systems. This work will be informed by this stakeholder workshop.

#### [Regional Workshop 2](#)

This is one of at least 6 regional workshops which are part of task 10.4 and will be held in order to communicate project results and involve relevant stakeholders. Tentative locations for this series of workshops are Copenhagen, Berlin, Vienna, Madrid, London, and Budapest.

#### [Website](#)

The website forms part of task 10.3 and will contain background information about the project, all public reports in a downloadable format, as well as an auction database. The interested public will be able to contact the consortium and/or sign up for the project newsletter via the website.

#### [Validation workshop on auction design elements and financing](#)

This workshop is part of task 10.4, but its content is linked to task 6.1. Discussion with policy and industry stakeholders will be used to validate and adjust the consortium's assumptions and analytical framework at an early stage in WP6 to ensure valid and relevant results.

#### [Regional Workshop 5](#)

This is one of at least 6 regional Workshops part of task 10.4 which will be held in order to communicate project results and involve relevant stakeholders. Tentative locations for this series of workshops are Copenhagen, Berlin, Vienna, Madrid, London, and Budapest.

#### [Workshop to validate results and develop feasible auction design recommendations](#)

This Workshop/expert talk will be held in Brussels. It is part of task 10.4. The content is related to task 5.3 on auction design and its effects on RES financing. The discussion will be used to validate results of the empirical analysis of the previous tasks and to start developing policy recommendations.

#### [Regional Workshop 4](#)

This is one of at least 6 regional workshops covered under task 10.4 which will be held in order to communicate project results and involve relevant stakeholders. Tentative locations for this series of workshops are Copenhagen, Berlin, Vienna, Madrid, London, and Budapest.

#### [Workshop on cross-border auction cooperation cases](#)

This Workshop is covered under task 10.4, but its content is linked to task 6.3. Draft results of case studies regarding cross-border cooperation will be presented to interested Stakeholders and the European Commission. Comments from this workshop will be incorporated in the task's final report.

#### [Regional Workshop 6](#)

This is one of at least 6 regional workshops which are part of task 10.4 and will be held in order to communicate project results and involve relevant stakeholders. Tentative locations for this series of workshops are Copenhagen, Berlin, Vienna, Madrid, London, and Budapest.

#### [Workshop - Effects of auctions on RES value chains, communities, and technological innovation](#)

This workshop/expert talk is part of task 10.4. It presents and discusses results of WP4 with stakeholders in Brussels.

#### [EC workshop on larger context of project results](#)

This workshop/expert talk will be held in Brussels and is part of task 10.4. Its content is related to task 9.1. The workshop will be used to discuss results obtained throughout the project such as lessons learnt, identified best practices, evaluations of policy packages under specific criteria and market conditions, and how they can be embedded into a larger context taking into account developments in the policy environment, Energy Community harmonisation, and cross-border cooperation among Member States, and technological progress, cost reductions of RES, smart markets, blockchain, etc.

#### [Regional Workshop 1](#)

This is one of at least 6 regional workshops which are part of task 10.4 and will be held in order to communicate project results and involve relevant stakeholders. Tentative locations for this series of workshops are Copenhagen, Berlin, Vienna, Madrid, London, and Budapest.

### Open Research Data Pilot (2)



#### [Updates of auctions database](#)

The auctions database, which goes online in month 15, is updated every 6 months. This results in 3 updates throughout the project, once in month 21, then month



27, and finally month 33. The updates are part of task 3.1.

#### [Auction Database](#)

This free online database will provide a holistic overview of the already conducted auctions in the EU comprising the results in terms of prices and volumes, as well as the implemented design elements and realisation rates. It is part of task 3.1 and will go online in month 15, with an update foreseen every 6 months.

## Veröffentlichungen

### Nicht von unabhängiger Seite geprüfte Artikel (3)

Auctions for Renewable Energy Support II - First insights and results of the Horizon2020 project AURES II

**Autoren:** Vasilios Anatolitis, Pablo del Río, Ana Amazo, Maria Bartek-Lesi, Felix von Blücher, Barbara Breitschopf, Robert Brückmann, Mak Dukan, Karl-Martin Ehrhart, Oscar Fitch-Roy, Jasper Geipel, Ann-Katrin Hanke, Moïra Jimeno, Christoph Kiefer, Lena Kitzing, Mats Marquardt, Craig Menzies, Gustav Resch, Agustin Roth, Laszlo Szabo, Fabian Wigand, Jenny Winkler and Bridget Woodm

**Veröffentlicht in:** Papeles de Energía, Ausgabe N°13, June 2021, 2021, Seite(n) 13-39, ISSN 2445-2726

**Herausgeber:** Funcas

An assessment of the design of the new renewable electricity auctions in Spain under an international perspective

**Autoren:** Pablo del Río

**Veröffentlicht in:** Papeles de Energía, Ausgabe N°13, June 2021, 2021, Seite(n) 69-102, ISSN 2445-2726

**Herausgeber:** Funcas

Design and results of recent renewable energy auctions in Europe

**Autoren:** László Szabó, Mária Bartek-Lesi, Alfa Diallo, Bettina Dézsi, Vasilios Anatolitis and Pablo del Río

**Veröffentlicht in:** Papeles de Energía, Ausgabe N°13, June 2021, 2021, Seite(n) 41-67, ISSN 2445-2726

**Herausgeber:** Funcas

### Fachlich begutachtete Artikel (6)

[The price of actor diversity: Measuring project developers' willingness to accept risks in renewable energy auctions](#) 

**Autoren:** Elizabeth Côté, Mak Đukan, Cristian Pons-Seres de Brauwer, Rolf Wüstenhagen

**Veröffentlicht in:** Energy Policy, Ausgabe 163, 2022, Seite(n) 112835, ISSN 0301-4215

**Herausgeber:** Pergamon Press Ltd.

**DOI:** 10.1016/j.enpol.2022.112835


[The impact of auctions on financing conditions and cost of capital for wind energy projects](#) 

**Autoren:** Mak Đukan, Lena Kitzing

**Veröffentlicht in:** Energy Policy, Ausgabe 152, 2021, Seite(n) 112197, ISSN 0301-4215

**Herausgeber:** Pergamon Press Ltd.

**DOI:** 10.1016/j.enpol.2021.112197

[Which policy instruments promote innovation in renewable electricity technologies? A critical review of the literature with a focus on auctions](#) 

**Autoren:** Pablo del Río, Christoph P. Kiefer

**Veröffentlicht in:** Energy Research & Social Science, Ausgabe 89, 2022, Seite(n) 102501, ISSN 2214-6296

**Herausgeber:** Elsevier Limited

**DOI:** 10.1016/j.erss.2022.102501

[How to design efficient renewable energy auctions? Empirical insights from Europe](#) 

**Autoren:** Vasilios Anatolitis, Alina Azanbayev, Ann-Katrin Fleck

**Veröffentlicht in:** Energy Policy, Ausgabe Volume 166, 2022, Seite(n) 112982, ISSN 0301-4215

**Herausgeber:** Pergamon Press Ltd.

**DOI:** 10.1016/j.enpol.2022.112982

[Financing conditions of renewable energy projects – results from an EU wide survey](#) 

**Autoren:** Robert Brückmann, Agustin Roth, Moïra Jimeno, Jörn Banasiak, Mak Đukan, Lena Kitzing, Vasilios Anatolitis

**Veröffentlicht in:** Open Research Europe, Ausgabe 1, 2021, Seite(n) 136, ISSN 2732-5121

**Herausgeber:** F1000Research

**DOI:** 10.12688/openreseurope.13969.1

[Analysing patterns and trends in auctions for renewable electricity](#) 

**Autoren:** P. del Río, C.P. Kiefer

**Veröffentlicht in:** Energy for Sustainable Development, Ausgabe 62, 2021, Seite(n) 195-213, ISSN 0973-0826

## Datensätze

Datensätze via OpenAIRE (3)



[AURES II Auction Database](#) 

**Autoren:** Vasilios Anatolitis

**Veröffentlicht in:** Mendeley

[Financing conditions of renewable energy projects – results from an EU wide survey](#) 

**Autoren:** Brückmann, Robert; Roth, Agustin; Jimeno, Moïra; Đukan, Mak; Kitzing, Lena

**Veröffentlicht in:** Zenodo

[How to design efficient renewable energy auctions? Empirical insights from Europe](#) 

**Autoren:** Vasilios Anatolitis

**Veröffentlicht in:** Mendeley

## Weitere Forschungsprodukte

Weitere Forschungsprodukte über OpenAire (1)



[Financing conditions of renewable energy projects – results from an EU wide survey - survey templates](#) 

**Autoren:** Brückmann, Robert; Roth, Agustin; Jimeno, Moïra; Đukan, Mak; Kitzing, Lena

**Veröffentlicht in:** Zenodo

**Letzte Aktualisierung:** 9 Dezember 2022

**Permalink:** <https://cordis.europa.eu/project/id/817619/results/de>

