

Ireland: Energy and related services

Open Energy System Model of Ireland, Focusing on Electric Power with Multi-Energy Carrier Extensibility

Contract or concession notice – standard regime

1 Buyer

1.1 Buyer

Official name: Sustainable Energy Authority of Ireland

Legal type of the buyer: Body governed by public law

Activity of the contracting authority: Environmental protection

2 Procedure

2.1 Procedure

Title: Open Energy System Model of Ireland, Focusing on Electric Power with Multi-Energy Carrier Extensibility

Description: The Services comprise of the delivery of an automated energy modelling workflow that builds, solves and interrogates a configurable energy system optimisation model, using publicly available datasets, all under Open Licenses. Herein, the term 'Energy System Model' refers to all parts of the open energy modelling workflow, including all data, methodologies, assumptions, formulation, software, documentation, metadata, and related deliverables. Upon completion of the deliverables, SEAL's intention is to release the Energy System Model on public repositories, so that peers in research, teaching and industry, who have an interest in modelling and studying the energy system of Ireland, can use and contribute under the relevant Open Licenses and contributor agreements and guidelines. The Energy System Model must employ an energy system optimisation modelling (ESOM) framework, i.e., one that can endogenously model multi-energy carrier systems and sector coupling, that is fully open source, e.g. Calliope, PyPSA, SpineOpt or Tulipa, amongst others. The sectoral scope in this CfT is the electric power system and the major national infrastructure required to enable deep or full electric power system decarbonisation, e.g. networks for hydrogen and carbon dioxide, and therefore the preference is for those ESOM frameworks whose use cases have demonstrated best practice for electric power system modelling.

Procedure identifier: 55e0cbae-46f5-4dba-b719-de87f240b159

Type of procedure: Open

The procedure is accelerated: no

2.1.1 Purpose

Main nature of the contract: Services

Main classification (cpv): 71314000 Energy and related services

Additional classification (cpv): 48460000 Analytical, scientific, mathematical or forecasting software package

Additional classification (cpv): 71356000 Technical services

Additional classification (cpv): 72212460 Analytical, scientific, mathematical or forecasting software development services

Additional classification (cpv): 72316000 Data analysis services

Additional classification (cpv): 73000000 Research and development services and related consultancy services

Additional classification (cpv): 73210000 Research consultancy services

Additional classification (cpv): 79311400 Economic research services

2.1.2 Place of performance

Country subdivision (NUTS): Dublin (IE061)

Country: Ireland

2.1.3 Value

Estimated value excluding VAT: 650 000 Euro

2.1.4 General information

Legal basis:

Directive 2014/24/EU

2.1.6 Grounds for exclusion

Sources of grounds for exclusion: European Single Procurement Document (ESPD)

5 Lot

5.1 Lot technical ID: LOT-0001

Title: Open Energy System Model of Ireland, Focusing on Electric Power with Multi-Energy Carrier Extensibility

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Internal identifier: 0

5.1.1 Purpose

Main nature of the contract: Services

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Additional classification (cpv): 48460000 Analytical, scientific, mathematical or forecasting software package

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Additional classification (cpv): 73000000 Research and development services and related consultancy services

Additional classification (cpv): 73210000 Research consultancy services

Additional classification (cpv): 79311400 Economic research services

5.1.2 Place of performance

Country: Ireland

Anywhere in the given country

Additional information:

5.1.3 Estimated duration

Duration: 15 Month

5.1.5 Value

Estimated value excluding VAT: 650 000 Euro

5.1.6 General information

Reserved participation: Participation is not reserved.

Procurement Project not financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

5.1.7 Strategic procurement

Aim of strategic procurement: No strategic procurement

5.1.9 Selection criteria

Sources of selection criteria: Procurement Document

5.1.11 Procurement documents

Languages in which the procurement documents are officially available: English

Languages in which the procurement documents (or their parts) are unofficially available: English

Deadline for requesting additional information: 13/01/2026 12:00 +00:00

Address of the procurement documents: <https://www.etenders.gov.ie/epps/cft/listContractDocuments.do?resourceId=7008808>

5.1.12 Terms of procurement

Terms of submission:

Electronic submission: Required

Address for submission: <https://www.etenders.gov.ie/epps/cft/viewTenders.do?resourceId=7008808>

Languages in which tenders or requests to participate may be submitted: English

Electronic catalogue: Not allowed

Tenderers may submit more than one tender: Not allowed

Deadline for receipt of tenders: 23/01/2026 12:00 +00:00

Deadline until which the tender must remain valid: 12 Month

Information about public opening:

Opening date: 23/01/2026 12:30 +00:00

Place: <https://www.etenders.gov.ie/epps/cft/prepareViewCfTWS.do?resourceId=7008808>

Terms of contract:

The execution of the contract must be performed within the framework of sheltered employment programmes: No

Electronic invoicing: Required

Electronic ordering will be used: no

Electronic payment will be used: no

5.1.15 Techniques

Framework agreement:

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

5.1.16 Further information, mediation and review

Review organisation: The High Court of Ireland

Organisation providing offline access to the procurement documents: Sustainable Energy Authority of Ireland

Organisation providing more information on the review procedures: The High Court of Ireland

Organisation receiving requests to participate: Sustainable Energy Authority of Ireland

Organisation processing tenders: Sustainable Energy Authority of Ireland

8 Organisations

8.1 ORG-0001

Official name: Sustainable Energy Authority of Ireland

Registration number: 231664

Postal address: Three Park Place, Upper Hatch Street, Dublin 2

Town: Dublin

Postcode: D02FX65

Country subdivision (NUTS): Dublin (IE061)

Country: Ireland

Email: procurement@seai.ie

Telephone: 018082100

Internet address: <https://www.seai.ie/>

Buyer profile: <https://www.seai.ie/>

Roles of this organisation:

Buyer

Organisation providing offline access to the procurement documents

Organisation receiving requests to participate

Organisation processing tenders

8.1 ORG-0002

Official name: The High Court of Ireland

Registration number: The High Court of Ireland

Department: The High Court of Ireland

Postal address: Four Courts, Inns Quay, Dublin 7

Town: Dublin

Postcode: D07 WDX8

Country subdivision (NUTS): Dublin (IE061)

Country: Ireland

Email: HighCourtCentralOffice@courts.ie

Telephone: +353 1 8886000

Roles of this organisation:

Review organisation

Organisation providing more information on the review procedures

8.1 ORG-0003

Official name: European Dynamics S.A.

Registration number: 002024901000

Department: European Dynamics S.A.

Town: Athens

Postcode: 15125

Country subdivision (NUTS): Βόρειος Τομέας Αθηνών (EL301)

Country: Greece

Email: eproc-esender@eurodyn.com

Telephone: +30 2108094500

Roles of this organisation:

TED eSender

Notice information

Notice identifier/version: 12d2eba0-eac5-4fee-805d-ac13cd28e34e - 01

Form type: Competition

Notice type: Contract or concession notice – standard regime

Notice dispatch date: 04/12/2025 13:29 +00:00

Languages in which this notice is officially available: English