



## INDUSTRY AND ENERGY SUPPLY PROTOCOLS: QUALIFICATIONS AND CERTIFICATIONS LIST

VERSION 1.0 – APRIL 2019



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 754056. The sole responsibility for the content of this document lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EASME nor the European Commission are responsible for any use that may be made of the information contained therein.

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## INTRODUCTION

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The Investor Confidence Project (ICP) is a global initiative that focuses on increasing energy efficiency deal flow by ensuring that projects are engineered robustly, financial returns are predictable, and project underwriting can be streamlined. The ICP system is comprised of the ICP Protocols and the Investor Ready Energy Efficiency™ Certification which offer a standardised roadmap for project developers, a market tested methodology for programme administrators, and a certification system for investors and facility owners to accurately and efficiently manage project risk.

ICP is administered by Green Business Certification Inc. (GBCI) and was conceived, incubated and developed by the Environmental Defense Fund ([www.edf.org](http://www.edf.org)).

The development of ICP in Europe was supported by funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 649836 and No 754056.

For more information, please visit:

ICP North America ([www.eepformance.org](http://www.eepformance.org)) or ICP Europe ([europe.eepformance.org](http://europe.eepformance.org)).

This Qualifications and Certifications List supports the Industry and Energy Supply protocols. It summarises information gathered to date by country on national or European certifications and qualifications which can be used to support ICP projects and network members within each European member state.

This document is intended to be a living document, evolving over time as it is applied to industrial and energy supply projects. In some cases, a relevant national resource has not yet been identified. Members of the ICP invite engineers, facility owners, software developers, prospective lenders and investors, and others to participate in developing this list for their countries to recommend additional or alternative national resources or certifications.

AUSTRIA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training provided at 3 locations in Austria – Austrian Chamber of Commerce (WKO), WIFI-Styria, Schloss Hofen/FH Vorarlberg
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Internal Energy Auditor according to Energy Efficiency Law (Interner Energieauditor nach EEEffG) Provider: Quality Austria
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Certified heat pump / solar thermal / photovoltaic / comfort ventilation installer and planner Provider: Austrian Institute of Technology (AIT) and WIFI Österreich
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training provided at 3 locations in Austria – Austrian Chamber of Commerce (WKO), WIFI-Styria, Schloss Hofen/FH Vorarlberg
		<b>National Certifications / Qualifications</b>	Scheme: Assessment of implementation of energy efficiency services (EEDL), set quality level for it. Provider: DECA (Dienstleister Energieeffizienz und Contracting Austria / Austrian Energy Efficiency and Performance Contractors) Quality Seal

**BELGIUM (FLEMISH REGION)**

<b>Individual carrying out savings calculations</b>	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manger (IHK) Provider: Training in Belgium provided by UCLL Energy
		<b>National Certifications / Qualifications</b>	Not available
<b>Commissioning (OPV Resource)</b>	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
<b>Energy Auditors</b>	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: None Provider: 'Vlaams Energieagentschap' - The Energy Agency, with assistance from the Verification Agency 'Verificatiebureau Benchmarking Vlaaderen' (VBBV)
<b>Installers</b>	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Certification of installers of small scale renewable energy solutions Provider: The Renewable Energy Systems Certification Organisation (RESCERT) Harmonised across Walloon, Flanders & Brussels.
<b>Project Developers</b>	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manger (IHK) Provider: Training in Belgium provided by UCLL Energy
		<b>National Certifications / Qualifications</b>	Not available

**BELGIUM (BRUSSELS REGION)**

<b>Individual carrying out savings calculations</b>	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manger (IHK) Provider: Training in Belgium provided by UCLL Energy
		<b>National Certifications / Qualifications</b>	Not available
<b>Commissioning (OPV Resource)</b>	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
<b>Energy Auditors</b>	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: None Provider: The Brussels Region Authority
<b>Installers</b>	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Certification of installers of small scale renewable energy solutions Provider: The Renewable Energy Systems Certification Organisation (RESCERT) Harmonised across Walloon, Flanders & Brussels.
<b>Project Developers</b>	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manger (IHK) Provider: Training in Belgium provided by UCLL Energy
		<b>National Certifications / Qualifications</b>	Not available

**BELGIUM (WALLOON REGION)**

<b>Individual carrying out savings calculations</b>	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manger (IHK) Provider: Training in Belgium provided by UCLL Energy
		<b>National Certifications / Qualifications</b>	Not available
<b>Commissioning (OPV Resource)</b>	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
<b>Energy Auditors</b>	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: 1 day training course Provider: Pirotech
<b>Installers</b>	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Certification of installers of small scale renewable energy solutions Provider: The Renewable Energy Systems Certification Organisation (RESCERT) Harmonised across Walloon, Flanders & Brussels.
<b>Project Developers</b>	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manger (IHK) Provider: Training in Belgium provided by UCLL Energy
		<b>National Certifications / Qualifications</b>	Not available



**BULGARIA**

<b>Individual carrying out savings calculations</b>	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manger (IHK) Provider: Training in Bulgaria provided by WIFI Bulgaria, Sofia
		<b>National Certifications / Qualifications</b>	Not available
<b>Commissioning (OPV Resource)</b>	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
<b>Energy Auditors</b>	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Examinations at higher technical schools accredited by an examination board including professors, representatives of the Ministry of Economy, the Ministry of Investment and the Design Agency Provider: The Sustainable Energy Development Agency (SEDA)
<b>Installers</b>	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Vocational education and training for Technicians of Renewable Energy Sources Provider: Bulgaria Centre for Testing and European Certification
<b>Project Developers</b>	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manger (IHK) Provider: Training in Bulgaria provided by WIFI Bulgaria, Sofia
		<b>National Certifications / Qualifications</b>	Scheme: Register of Energy Performing Contracting (EPCs) which have signed the European Code of Conduct for EPC. Provider: Sustainable Energy Development Agency (SEDA) Scheme: Certificate of Legal Capacity for Design Provider: Chamber of Architects (CAB), Chamber of Engineers in Investment Design (CEEP)

CROATIA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Croatia provided by the Croatian Chamber of Commerce and Industry
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: 10 educational institutions granted authorisation to conduct training for energy certifiers Providers: College of SlavonskiBrod, Faculty of Civil Engineering at the University of Zagreb, Faculty of Engineering at the University of Rijeka, Energy Institute HrvojePožar, Faculty of Mechanical Engineering and Naval Architecture at the University of Zagreb, Brodarskiinstitutd.o.o., Society of Civil Engineers Zagreb, Croatian Chamber of Mechanical Engineers, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture at the University of Split, Faculty of Civil Engineering Osijek at the Josip Juraj Strossmayer University of Osijek
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Certification of installers for small RES systems Provider: Certified by Ministry of Construction
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Croatia provided by the Croatian Chamber of Commerce and Industry
		<b>National Certifications / Qualifications</b>	Not available

CYPRUS

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Cyprus provided by the Cyprus Energy Agency
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Certification required with training dependent on 3 different categories broken down by sector. Provider: The Ministry of Energy, Commerce, Industry and Tourism (MECIT)
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Qualification for small scale RES installers Provider: Certified by Energy Service of the Ministry of Energy, Commerce, Industry & Tourism
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Cyprus provided by the Cyprus Energy Agency
		<b>National Certifications / Qualifications</b>	Not available

CZECH REPUBLIC

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in the Czech Republic provided by the German-Czech Chamber of Commerce and Industry
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory exams and continuing education Provider: The Association of Energy Auditors and the Czech Chamber of Certified Architects.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Solar thermal systems installer Provider: Certified by the Ministry for Industry and Trade
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in the Czech Republic provided by the German-Czech Chamber of Commerce and Industry
		<b>National Certifications / Qualifications</b>	Not available

DENMARK

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Voluntary training available. Provider: DI Energie.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Approval for renewable energy sources installer Provider: Certified by Danish Energy Agency
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available

ESTONIA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Estonia provided by the Estonian Chamber of Commerce and Industry (ECCI)
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Some voluntary & some mandatory training / certification Provider: EKVÜ, with Tallinn University of Technology.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Renewable Energy Installers in Estonian Qualification Framework Provider: Certified by Kutsekoda
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Estonia provided by the Estonian Chamber of Commerce and Industry (ECCI)
		<b>National Certifications / Qualifications</b>	Not available

FINLAND

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Finland provided by AEL
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory energy auditor training and examination Provider: Motvia.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Voluntary certification system for the installers of the renewable energy systems Provider: Motvia
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Finland provided by AEL
		<b>National Certifications / Qualifications</b>	Not available

FRANCE

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Required for external auditors, not required for internal auditors Provider: ADEME (Agence de l'environnement et de la maîtrise de l'énergie)
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Recognized as a guarantee for the environment (RGE) Provider: Certified by Cofrac
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available



GERMANY

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	DIN EN 16212 – Energy efficiency and savings calculations – Top-down and bottom-up methods (Energieeffizienz- und -einsparberechnung - Top-Down- und Bottom-Up-Methoden) VDI 4662 – Education, Implementation and use of energy characteristics (Bildung, Implementierung und Nutzung von Energiekennwerten) Scheme: European Energy Manager (IHK) Provider: Training provided at 16 different locations around Germany. More information can be found here: <a href="https://www.energymanager.eu/trainingsorte/trainingsanbieter-in-deutschland/">https://www.energymanager.eu/trainingsorte/trainingsanbieter-in-deutschland/</a>
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Voluntary training available Provider: Private companies/chambers of commerce and industry (e.g. TÜV, IHK, DEKRA)
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Exercise of a skilled craft subject to a licence pursuant to the Crafts Code: Renewable Energy Installer Provider: Chambers of Skilled Crafts (Meister Examinations) and Guilds of Skilled Crafts (Journeyman's Examinations).
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training provided at 16 different locations around Germany. More information can be found here: <a href="https://www.energymanager.eu/trainingsorte/trainingsanbieter-in-deutschland/">https://www.energymanager.eu/trainingsorte/trainingsanbieter-in-deutschland/</a>
		<b>National Certifications / Qualifications</b>	Not available

GREECE

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Greece provided by the German-Greek Chamber of Industry and Commerce
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Voluntary training available Provider: The Centre for Renewable Energy Sources and Saving (CRESES) and the Technical Chamber of Greece (TEE).
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: None
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Greece provided by the German-Greek Chamber of Industry and Commerce
		<b>National Certifications / Qualifications</b>	Not available

HUNGARY

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Hungary provided by the German-Hungarian Chamber of Commerce and Industry
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory written exam and optional training class Provider: The Hungarian Energy and Public Utility, MEKH (Magyar Energetikai és Közműszabályozási Hivatal)
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: None
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Hungary provided by the German-Hungarian Chamber of Commerce and Industry
		<b>National Certifications / Qualifications</b>	Not available

IRELAND

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits ISO 50002:2014 Energy audits: Requirements with guidance for use
		<b>National Certifications / Qualifications</b>	Scheme: Any one of the following specific qualifications required: <ul style="list-style-type: none"> <li>• Energy Institute Chartered Energy Engineer</li> <li>• Energy Institute Chartered Energy Manager</li> <li>• Association of Energy Engineers Certified Energy Manager</li> <li>• Association of Energy Engineers Certified Energy Auditor</li> <li>• Practicing Non Domestic BER Assessor in Republic of Ireland with SEAI</li> <li>• ESOS (UK Auditing scheme) Lead Assessor</li> </ul> Provider: Energy Institute (EI), Association of Energy Engineers (AEE), The Sustainable Energy Authority of Ireland (SEAI).
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Renewable Installers Register Provider: Facilitated by the Sustainable Energy Authority of Ireland (SEAI)
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available

ITALY

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	UNI CEI EN 16212:2012 Energy Efficiency and Savings Calculation – Top-down and Bottom-up Methods Scheme: European Energy Manager (IHK) Provider: Training in Italy provided by Ambiente Italia srl
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: UNI CEI 11339:2009 – Energy Management: Experts in Energy Management Provider: Provided by several entities (SECEM-FIRE, Certiquality, KIWA and more)
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Qualification for RES installers Provider: Facilitated by the National Agency for New Technologies, Energy and Sustainable Economic Development. Training provided by Italian Regional administrations.
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Italy provided by Ambiente Italia srl
		<b>National Certifications / Qualifications</b>	Scheme: UNI CEI 11352 – Energy Management – companies providing energy services (ESCO) – General requirements and checklist for the verification of requirements Provider: Provided by several entities (RINA, DIMITTO, Bureau Veritas Italy and more)

LATVIA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Latvia provided by the Latvian Chamber of Commerce and Industry (Latvijas Tirdzniecības un rūpniecības kamera)
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Qualification exams Provider: The National Accreditation Bureau's Centre for Standardisation, Accreditation and Metrology.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Unnamed Provider: Facilitated by Academic Information Centre and accredited by Latvian National Accreditation Bureau
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Latvia provided by the Latvian Chamber of Commerce and Industry (Latvijas Tirdzniecības un rūpniecības kamera)
		<b>National Certifications / Qualifications</b>	Not available

LITHUANIA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory training Provider: Education institutions approved by the Lithuanian Ministry of Energy.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Certification scheme for installers of small-scale (up to 100 kW) RES technologies
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available

LUXEMBOURG

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Training required for self-certification if auditor is not a registered architect or consulting engineer. Certification itself is optional. Provider: "Myenergy"
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Master craftsmen diploma electrician and Master craftsmen diploma plumber and HVAC (heating, ventilation and air-conditioning) Provider: The Chamber of Skilled Crafts
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available



MALTA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory training/certification Provider: Private companies, a list is provided on the Malta Resources Authority (MRA) website.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: The Registration of Training Courses leading to the Certification of Renewable Energy Systems Installers, providers of Energy Services, Energy Auditors and Energy Managers
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available

NETHERLANDS, THE

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Voluntary training Provider: The Stichting Kwaliteitsborging Installatiesector (Foundation for Quality Assurance in the Installation Sector, KBI) or the Platform for Certification of Environmental and Occupational Health & Safety Management Systems (SCCM).
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Accreditatie RES Provider: Kwaliteit voor Installaties Nederland (KvINL)
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available

POLAND

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Poland provided by the Polish National Chamber of Commerce (Krajowa Izba Gospodarcza)
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Voluntary training Provider: The Polish-Japanese Energy Conservation Technology Centre (PJCEE), the Operational Programme Human Capital, 3rd level institutions, research institutions, foundations, associations and private enterprises.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Certification of installers in the field of renewable energy Provider: Urząd Dozoru Technicznego (UDT) (Technical Inspection Authority)
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Poland provided by the Polish National Chamber of Commerce (Krajowa Izba Gospodarcza)
		<b>National Certifications / Qualifications</b>	Not available

PORTUGAL

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory requirement to join the register of Recognised Technicians and Entities provided on the SGCIE website Provider: The Portuguese Management System of Intensive Energy Consumption "SGCIE", Directorate-General for Energy and Geology "DGEG"
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Technician / Installer of Bioenergy Systems/ Solar Photovoltaic/ Solar Thermal Systems/ Wind Turbine Systems/ Renewable Thermal Energy Systems Provider: Facilitated by LNEG Portugal.
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available

ROMANIA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Romania provided by the Romanian Chamber of Commerce and Industry (Camera de Comert si Industrie Cluj)
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory course must be completed if auditors do not hold a master's degree in energy efficiency or a doctorate in engineering. Provider: 10 universities approved by the Romanian National Regulatory Authority (ANRE).
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: None
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Romania provided by the Romanian Chamber of Commerce and Industry (Camera de Comert si Industrie Cluj)
		<b>National Certifications / Qualifications</b>	Not available

SLOVAKIA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Slovakia by the German-Slovak Chamber of Commerce and Industry
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory training/certification refresher course every 3 years.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: None
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Slovakia by the German-Slovak Chamber of Commerce and Industry
		<b>National Certifications / Qualifications</b>	Not available

SLOVENIA

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Slovenia provided by the Jozef Stefan Institute, Energy Efficiency Centre
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: No mandatory requirements for auditors outside the buildings sector.
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Installer Certification Scheme Provider: Facilitated by the Ministry of Infrastructure
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Slovenia provided by the Jozef Stefan Institute, Energy Efficiency Centre
		<b>National Certifications / Qualifications</b>	Not available

SPAIN

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Scheme: European Energy Manager (IHK) Provider: Training in Spain provided by Escan s.l.
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Voluntary training available Provider: ENACE (Entidad Nacional de Auditores y Certificadores de Edificación)
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: None
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18 Scheme: European Energy Manager (IHK) Provider: Training in Spain provided by Escan s.l.
		<b>National Certifications / Qualifications</b>	Not available



SWEDEN

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Mandatory requirement to pass both a written and an oral exam. Internal energy auditors required to meet skills requirements set out by the Swedish Energy Agency (STEM).
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Certification of installers of small-scale renewable energy technologies Provider: INCERT
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available

UNITED KINGDOM, THE

Individual carrying out savings calculations	A nationally recognised energy savings calculation certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Not available
Commissioning (OPV Resource)	A nationally recognised commissioning certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Voluntary training available, for example Commissioning engineers grades, Grade 4 minimum recommended Provider: Commissioning Specialists Association
Energy Auditors	National requirements for individuals or organisations conducting energy audits	<b>Relevant European or International Resource</b>	EN 16247 (Part 1-5) Energy Audits
		<b>National Certifications / Qualifications</b>	Scheme: Various one-day training courses Provider: Energy Institute, Institute of Environmental Management Assessment (IEMA) Scheme: Certified Energy Manager International and Certified Energy Auditor International Certification Provider: Association of Energy Engineers (AEE).
Installers	A nationally recognised equipment installers certification	<b>Relevant European or International Resource</b>	Not available
		<b>National Certifications / Qualifications</b>	Scheme: Microgeneration Certification Scheme (MCS) Provider: A number of certification bodies, accredited by the UK Accreditation Service (UKAS). Scheme: Qualifications in Electrical Installation / Gas Installation / Heating and Ventilation / Plumbing / Refrigeration and Air-Conditioning - as appropriate. Provider: City & Guilds, BESA Training, Logic Certification among others.
Project Developers	National requirements or certifications for Energy Service Companies	<b>Relevant European or International Resource</b>	Energy Efficiency Directive (2012/27/EU; EED), which sets explicit requirements to promote the market of energy services through its Article 18
		<b>National Certifications / Qualifications</b>	Not available