



S E C O V E

SUSTAINABLE ENERGY CENTRES OF VOCATIONAL EXCELLENCE

<https://secove-project.eu>

WP4.D4.1.

**LOCAL AND REGIONAL WBL
PARTNERSHIPS
ESTABLISHED IN SECOVE
PROJECT**



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1. EXECUTIVE SUMMARY

This deliverable presents the overall results achieved under WP4.D4.1 regarding the establishment of local, regional, national and transnational Work-Based Learning (WBL) partnerships within the SECOVE project. The purpose of this deliverable is to document the cooperation frameworks created between VET providers, companies, sectoral organisations, technology providers, innovation stakeholders and other relevant actors contributing to the development of sustainable energy Centres of Vocational Excellence.

The reports compiled in this deliverable have been prepared by the participating VET partners and describe the partnerships established in Spain, Portugal, Greece, Slovakia and Italy. Each partner report provides information on the agreements or partnerships signed, the sectors covered, the relevance of the partner organisations for SECOVE, the student or trainee profiles involved, and the added value of the partnerships for VET providers, learners, companies and the wider project ecosystem.

The partner reports provide evidence of 122 signed local, regional and national agreements or partnerships across Spain, Portugal, Greece, Slovakia and Italy. Across the participating countries, the agreements established under D4.1 contribute to strengthening cooperation between vocational education and the labour market. They provide a structured basis for work placements, internships, practical training, mentoring, applied research activities, knowledge exchange and future cooperation between VET institutions and external stakeholders. The partnerships also support the development of green, digital and technical skills needed for the sustainable energy sector and for the wider green and digital transitions.

The signed agreements cover a wide range of sectors relevant to SECOVE, including renewable energy, photovoltaic systems, energy storage, smart grids, electric mobility, industrial engineering, construction, digitalisation, ICT, cybersecurity, automation, telecommunications, BIM, digital twin technologies, smart buildings, energy efficiency, geodesy, sustainable construction, environmental consultancy and innovation services. This diversity reflects the interdisciplinary nature of the sustainable energy transition and the need to prepare learners for evolving professional environments where technical, digital and transversal competences are increasingly interconnected. Overall, D4.1 demonstrates that SECOVE partners have mobilised regional and national ecosystems to create cooperation frameworks with companies and organisations. These partnerships strengthen the relevance and attractiveness of VET, improve students access to real working environments, enhance employability, and contribute to the sustainability of the SECOVE Centres of Vocational Excellence beyond the project lifetime.

2. METHODOLOGY AND PARTNERSHIP-BUILDING APPROACH

The partnerships reported under D4.1 were established through a combination of direct company outreach, stakeholder engagement, networking activities, innovation hub development, project presentations, professional networks, events and the mobilisation of existing regional ecosystems.

Each VET partner adapted the partnership-building process to its own national and regional context. In Spain, Politeknika Txorierri consolidated cooperation with regional technology, ICT, cybersecurity, industrial and sectoral organisations. In Portugal, IPP/ISEP and the Portuguese SECOVE ecosystem built on networking activities, the SECOVE Academy, the ISEP Career Summit and engagement with organisations related to sustainable energy, construction, engineering, business services and digital technologies. In Greece, DELTA 360 used networking actions, stakeholder meetings, project presentations and direct outreach, while SAEK Egaleo focused on companies operating across the sustainable energy value chain. In Slovakia, STAVKE formalised cooperation with companies and professionals linked to construction, civil engineering, architecture and geodesy. In Italy, CIOFS-FP ETS developed cooperation around the Italian Innovation Hub, including companies, professionals, technology providers and transnational stakeholders.

The common objective across all contexts was to identify organisations capable of contributing to high-quality work-based learning and to the development of skills relevant to the SECOVE project. The agreements were therefore designed not only as administrative documents, but as cooperation frameworks enabling practical learning, workplace mentoring, feedback mechanisms, curriculum relevance, applied innovation and stronger education-industry cooperation:

- prioritising cooperation with organisations whose activities are relevant to sustainable energy, digitalisation, industrial innovation or technical VET;
- formalising collaboration through signed agreements, memoranda of understanding or partnership frameworks;
- supporting work-based learning, internships, practical training, professional practice or applied learning opportunities;
- ensuring that students can develop technical and transversal competences in real working environments;
- creating long-term links between VET providers, companies and professional organisations;
- strengthening regional and European skills ecosystems connected to Centres of Vocational Excellence.

3. OVERVIEW OF PARTNERSHIPS ESTABLISHED

The partner reports included in the annexes provide detailed information on the agreements signed by each VET provider. Taken together, they show a strong mobilisation of local, regional and national stakeholders around the objectives of SECOVE.

The following table consolidates the information available in the final national and partner reports, using harmonised figures for all partners:

VET provider / partner	Country	Agreements / partnerships reported	Main sectors and cooperation areas	Annex
Politeknika Txorierri	Spain	20	ICT, cybersecurity, automation, electronics, telecommunications, industrial innovation and energy-related technologies.	Annex I
IPP / Portuguese SECOVE ecosystem	Portugal	20	Sustainable energy, solar thermal, construction, engineering, digital technologies, environmental consultancy and business services.	Annex II
DELTA 360	Greece	20	Sustainable energy, engineering, digital technologies, transport, security systems, consultancy, training and technical services.	Annex III
SAEK Egaleo	Greece	22	Renewable energy, PV, wind energy, energy storage, electrical engineering, industrial automation, EV infrastructure and energy management.	Annex IV
STAVKE	Slovakia	20	Construction, civil engineering, architecture, geodesy, infrastructure development, technical services and professional associations.	Annex V

CIOFS-FP ETS	Italy	20	Sustainable energy, digitalisation, engineering, construction, ICT, BIM, digital twins, smart buildings and energy monitoring.	Annex VI
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Based on the harmonised partner reports, the deliverable accounts for 122 signed agreements or partnerships. This figure includes Spain, Portugal, Greece, Slovakia and Italy.

3.1 Partner-Level Synthesis

3.1.1 Politeknika Txorierri - Spain

Politeknika Txorierri reports 20 collaboration agreements with companies and sectoral organisations in the Basque Country and Spain. The network covers ICT, cybersecurity, software, automation, electronics, telecommunications, advanced manufacturing, industrial innovation, engineering services and energy-related technologies. Student profiles are linked to electricity and electronics, automation and robotics, telecommunications and computer systems, IT, cybersecurity, mechanical manufacturing and sustainable industrial technologies.

3.1.2 IPP - Portugal

The Portuguese report presents 20 national WBL agreements with organisations covering solar thermal energy, construction, sustainable energy, engineering, digital learning, environmental consultancy, digital innovation, software, IT services, business support, real estate and logistics. The agreements create a basis for future internships, technical visits, practical demonstrations, project-based learning, collaborative initiatives and interaction with professionals.

3.1.3 DELTA 360 - Greece

DELTA 360 reports 20 Memoranda of Understanding with companies and organisations in areas such as sustainable energy, engineering, digital technologies, transport, security systems, consultancy, education and training, hospitality and technical services. The agreements support internships, apprenticeships, work-based learning activities and closer cooperation between vocational education and industry.

3.1.4 SAEK Egaleo - Greece

SAEK Egaleo reports a network of 22 partner companies and organisations across the sustainable energy value chain, including photovoltaic systems, wind energy, energy storage, electrical engineering, industrial automation, EV charging infrastructure, energy management and logistics. The partnerships are designed to provide trainees with direct exposure to real industrial environments and emerging green technologies.

3.1.5 STAVKE - Slovakia

STAVKE reports 20 collaboration agreements with Slovak companies, civil engineers and professional organisations operating in construction, architecture, geodesy, infrastructure development and related technical fields. The agreements provide a foundation for professional practice, work placements and long-term cooperation with regional stakeholders.

3.1.6 CIOFS-FP ETS - Italy

CIOFS-FP ETS reports 20 national collaboration agreements connected to the Italian Innovation Hub. The report highlights cooperation with companies, professionals, technology providers and European organisations in sustainable energy, digitalisation, engineering, construction, ICT, BIM, digital twin technologies, smart buildings and energy monitoring. Etechus is presented as a significant example because of its contribution to the SECOVE Digital Twin platform and to student applied research activities.

4. SECTORS AND SKILLS' AREAS COVERED

The partnerships established under D4.1 cover a broad range of sectors and professional areas directly or indirectly connected to the objectives of SECOVE. This reflects the fact that sustainable energy skills are no longer limited to traditional energy occupations, but increasingly require integrated knowledge of digital technologies, automation, infrastructure, data, engineering, construction and smart systems:

- renewable energy, solar thermal technologies and photovoltaic systems;
- wind energy, energy storage, smart grids and power management;
- electric mobility and EV charging infrastructure;
- energy efficiency, energy management and sustainable building technologies;
- industrial engineering, electrical infrastructure and industrial automation;
- construction, civil engineering, architecture, geodesy and infrastructure development;
- ICT, telecommunications, software development and digital learning solutions;
- cybersecurity, digital infrastructure and data-driven services;
- BIM, digital twins, smart buildings, energy monitoring and IoT-related applications;
- environmental consultancy, sustainability services, innovation services, business support and technology transfer.

This sectoral diversity is a strong added value for SECOVE. It ensures that learners are exposed to the real complexity of the green and digital transitions and supports the development of hybrid professional profiles that combine technical, digital and sustainability-related competences.

5. WBL OPPORTUNITIES AND TRAINEE PROFILES

The agreements established by the SECOVE partners create a structured framework for work-based learning opportunities. Depending on the national context and the partner organisation, these opportunities include internships, mandatory practical training, professional practice, applied research activities, mentoring, company-based projects, technical visits, practical demonstrations, participation in innovation initiatives, and future mobility or staff exchange activities.

The trainee profiles involved vary according to the educational offer of each VET provider. The most relevant study areas include:

- renewable energy technologies and energy systems;
- electrical engineering, electricity and electronics;
- automation, industrial robotics and industrial maintenance;
- photovoltaic systems, energy storage and EV infrastructure;
- telecommunications, computer systems, IT, networking and cybersecurity;
- mechanical manufacturing and industrial design;
- construction, civil engineering, architecture and geodesy;
- sustainable construction, energy efficiency and smart buildings;
- digital technologies, software, BIM, digital twins and energy monitoring.

In several partner reports, the agreements establish a flexible framework in which the number of trainees, duration of placements, specific tasks and supervision arrangements are agreed according to company capacity, student profiles and academic calendars. This is the case, for example, in Spain and Portugal, where the reports describe flexible or future implementation of WBL activities. Other reports describe broader WBL activities such as workplace placements, site visits, project-based learning, practical demonstrations and mentoring.

This flexibility is important because it allows each VET provider to match students with suitable companies and to ensure that work-based learning activities respond both to learning outcomes and to real workplace conditions.

6. ADDED VALUE OF THE PARTNERSHIPS

6.1 Added value for VET providers

For VET providers, the partnerships strengthen links with companies and sectoral organisations. They help ensure that educational programmes remain aligned with labour market needs and technological developments. They also create channels for feedback from employers, support curriculum modernisation, and reinforce the role of VET providers as active actors in regional innovation and skills ecosystems.

6.2 Added value for students

For students, the agreements increase access to real working environments where they can apply theoretical knowledge, develop practical skills and gain professional experience. Work-based learning allows learners to understand workplace expectations, use sector-specific technologies, interact with professionals, and develop transversal competences such as teamwork, communication, problem-solving, responsibility and adaptability. These experiences improve employability and support smoother transitions from education to employment.

6.3 Added value for companies

For companies, the agreements create a structured mechanism for cooperation with VET providers. Companies can contribute to the development of future professionals, identify emerging talent, and ensure that training pathways reflect actual skills needs. They also benefit from closer cooperation with education providers, access to innovation activities, and involvement in regional and European skills ecosystems.

6.4 Added value for SECOVE

For SECOVE, the added value is strategic. The agreements provide concrete evidence of education-industry cooperation and demonstrate the capacity of the project to create sustainable partnerships beyond classroom-based learning. They also support the development of Centres of Vocational Excellence by linking training provision with innovation, labour market relevance, regional development and European cooperation.

7. CONTRIBUTION TO SECOVE OBJECTIVES AND LONG-TERM SUSTAINABILITY

The partnerships established under D4.1 contribute directly to the core objectives of SECOVE. They support the creation and consolidation of Centres of Vocational Excellence in the sustainable energy field by connecting VET providers with companies, professional organisations, innovation actors and transnational stakeholders.

The agreements contribute to SECOVE in several ways:

- they strengthen work-based learning as a key component of vocational excellence;
- they improve the relevance and attractiveness of VET pathways;
- they support the development of green and digital skills;
- they connect learners with real technological and industrial environments;
- they promote cooperation between education, industry, research and innovation ecosystems;
- they facilitate knowledge exchange across regions and countries;
- they create opportunities for future mobility, applied research, joint projects and collaborative experimentation;
- they support the long-term sustainability of the SECOVE hubs and networks.

The deliverable therefore goes beyond the formal signing of agreements. It demonstrates that SECOVE partners have built practical cooperation frameworks that can continue to generate value after the end of the project. These partnerships provide the basis for future WBL cycles, updated training activities, company-led learning experiences, applied innovation and stronger regional and European cooperation in sustainable energy VET.

8. ANNEXES

The detailed national and partner reports are included as annexes to this deliverable introduction. Each annex provides the specific description of the agreements signed, the partner organisations involved, the sectors covered, the trainee profiles addressed and the added value for the VET provider, students and SECOVE.

- Annex I: Report from Local and Regional WBL Partnerships - Politeknika Txorierri, Spain
- Annex II: Report from Local and Regional WBL Partnerships - Portugal / IPP
- Annex III: Report from Local and Regional WBL Partnerships - DELTA 360, Greece
- Annex IV: Report from Local and Regional WBL Partnerships - SAEK Egaleo, Greece
- Annex V: Report from Local and Regional WBL Partnerships - STAVKE, Slovakia
- Annex VI: Report from Local and Regional WBL Partnerships - CIOFS-FP ETS, Italy

Where applicable, the signed collaboration agreements, memoranda of understanding or supporting evidence are included as sub-annexes to each partner report.



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ANNEX I.

REPORT FROM LOCAL AND REGIONAL WBL PARTNERSHIPS POLITEKNIKA TXORIERRI - SPAIN



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1. SUMMARY

This national report presents the local and regional Work-Based Learning (WBL) partnerships established in Spain within the framework of WP4 of the SECOVE project. The report has been prepared by Politeknika Txorierri, a Vocational Education and Training provider located in the Basque Country, Spain, with the aim of documenting the 20 collaboration agreements signed with companies and sectoral organisations to support work placements for VET students.

The main objective of these agreements is to strengthen cooperation between the VET provider and the labour market, ensuring that learners have access to meaningful work-based learning opportunities in real professional environments. Through these partnerships, students can apply the knowledge and skills acquired during their studies, develop transversal and technical competences, and improve their employability in sectors connected to digitalisation, industrial innovation, automation, electronics, cybersecurity, ICT, energy efficiency and sustainable technological development.

The agreements signed establish a common collaboration framework between Politeknika Txorierri and each company. This framework defines the general purpose of the cooperation, the responsibilities of the VET provider, the responsibilities of the company, and the mutual commitments required to ensure the quality and sustainability of student work placements. In particular, the agreements foresee that Politeknika Txorierri will identify and prepare suitable students, maintain regular communication with the companies, and appoint a tutor or contact person to monitor the placement. The companies, in turn, commit to providing a safe and suitable work environment, assigning meaningful tasks related to the students' field of study, appointing a mentor or supervisor, and providing feedback on student performance.

Overall, the partnerships contribute directly to the objectives of SECOVE by reinforcing the connection between VET and industry, improving the relevance of learning pathways, and supporting the development of skills needed for the green and digital transitions. They also support the consolidation of a regional skills ecosystem in which VET providers, companies and sectoral stakeholders collaborate to improve the quality, attractiveness and responsiveness of vocational training.

2. OVERVIEW OF THE AGREEMENTS SIGNED

Politeknika Txorierri has signed a total of 20 collaboration agreements with companies and organisations in the Basque Country and Spain. These agreements provide a formal basis for cooperation in the organisation of work placements for students. The companies and organisations involved represent a broad range of sectors that are highly relevant for the SECOVE project, including ICT, cybersecurity, industrial digitalisation, automation, electronics, advanced manufacturing, engineering services, technology consulting, telecommunications, energy-related technologies and business networks connected to innovation and digital transformation.

The agreements have been signed with the following companies and organisations:

- GAIA – Asociación de Industrias de Conocimiento y Tecnología
- Ondoan
- Jox Systems
- Inlog Consulting
- Lanmedia
- GBM
- Owasys
- Aldalan
- Kelan Elektronika
- Kelan S.L.
- Axia Intelligence Learning
- Conetic
- Orgaus
- Cyberlur
- Binovo IT
- Devol
- HETEL
- Cybertix
- Opscura Technologies
- Sarenet

These organisations offer complementary profiles and areas of expertise. Some of them are directly linked to ICT, cybersecurity, software development, data management, digital services and intelligent systems. Others are connected to industrial technologies, electronics, automation, maintenance, engineering, energy efficiency, telecommunications and applied technological solutions for companies. The inclusion of sectoral organisations and networks also strengthens the strategic dimension of the partnerships, as they can facilitate access to wider business ecosystems and support the dissemination and transfer of SECOVE-related results.

The student profiles potentially involved in these work placements are mainly linked to the study families offered by Politeknika Txorierri that are relevant to the SECOVE project and to the needs of the regional labour market. These include, among others:

- Electricity and Electronics
- Automation and Industrial Robotics
- Telecommunications and Computer Systems
- IT, Networking and Cybersecurity
- Mechanical Manufacturing and Industrial Design
- Energy efficiency, sustainable technologies and industrial maintenance-related profiles, where applicable

The agreements do not establish a fixed number of trainees per company for the whole duration of the collaboration. Instead, they create a flexible framework through which the number of students, specific tasks, placement duration and supervision arrangements can be agreed according to the needs of each academic year, the availability of the companies, and the suitability of the student profiles. Where necessary, these specific conditions may be defined through a work placement profile or annex.

At the time of preparing this report, the agreements mainly serve to formalise and expand the network of companies willing to collaborate with Politeknika Txorierri in the provision of WBL opportunities. The actual allocation of students to each company will depend on the academic calendar, students' training needs, company capacity, and the matching between learning outcomes and workplace tasks.

3. ADDED VALUE OF THE AGREEMENTS

The collaboration agreements signed provide significant added value for Politeknika Txorierri, its students, the participating companies and the wider objectives of the SECOVE project.

For Politeknika Txorierri, the agreements strengthen the centre's capacity to offer high-quality work-based learning opportunities in companies operating in strategic sectors for the Basque Country. They help ensure that VET provision remains closely connected to labour market needs and to technological developments in areas such as digitalisation, industrial transformation, cybersecurity, electronics, telecommunications and sustainable energy-related solutions. The agreements also reinforce the role of the VET centre as an active actor within the regional innovation and skills ecosystem, working in cooperation with companies and sectoral stakeholders to prepare learners for current and future professional challenges.

For students, the main added value lies in the opportunity to gain practical experience in real working environments. Through work placements, students can apply their technical knowledge, develop professional skills, understand workplace expectations, and improve their confidence and employability. The agreements also support the development of transversal competences such as teamwork, communication, problem-solving, adaptability, responsibility and professional ethics. These competences are essential for successful transitions from education to employment, especially in sectors undergoing rapid technological change.

For companies, the agreements create a structured channel for cooperation with VET. Companies can contribute to the training of future professionals, identify emerging talent, and collaborate with the VET provider to ensure that training pathways are aligned with real business needs. By hosting students, companies can also strengthen their links with the education sector and contribute to the development of a skilled workforce in areas that are increasingly important for competitiveness, innovation and sustainability.

The agreements are also highly relevant for SECOVE. The project aims to promote excellence in VET in the field of sustainable energy, while strengthening cooperation between education and industry. Although the companies involved cover a wide range of technological and industrial sectors, their expertise is closely connected to the green and digital transitions. Digital technologies, automation, data, cybersecurity, electronics, telecommunications and industrial services are all essential enablers of more efficient, sustainable and resilient energy and industrial systems.

In this sense, the agreements contribute to SECOVE by:

- expanding the regional network of WBL partners;
- supporting the development of skills relevant to sustainable energy and industrial transformation;
- improving the attractiveness and labour market relevance of VET;
- promoting stronger links between VET providers, companies and sectoral organisations;
- creating opportunities for students to experience real workplace challenges;
- contributing to a more responsive and future-oriented VET ecosystem in the Basque Country.

Furthermore, the agreements promote a shared culture of learning, inclusion and professional development. The collaboration framework encourages regular communication between the VET provider and the companies, supervision of students during placements, and feedback on student performance. This helps improve the quality of WBL and supports continuous improvement in the relationship between training provision and workplace expectations.

Overall, the agreements represent an important step in consolidating sustainable and long-term cooperation between Politeknika Txorierri and regional companies. They provide a practical mechanism to connect students with the labour market, support the objectives of SECOVE, and contribute to the development of a skilled workforce capable of responding to the challenges of the green and digital transitions.



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ANNEX II.

REPORT FROM LOCAL AND REGIONAL WBL PARTNERSHIPS_PORTUGAL



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1. SUMMARY

1.1 Scope and Objective of the Deliverable

This deliverable presents the local and regional Work-Based Learning (WBL) partnerships established in Portugal within the framework of the SECOVE – Sustainable Energy Centres of Vocational Excellence project.

The Portuguese SECOVE ecosystem, involving Energaia, Instituto Politécnico do Porto (IPP/ISEP) and other national stakeholders, has promoted the development of strategic partnerships with organisations operating in sectors closely related to sustainable energy, engineering and construction.

The primary objective of these agreements is to strengthen the connection between Vocational Education and Training (VET) providers and the labour market by creating opportunities for Work-Based Learning, technical cooperation and future collaborative initiatives.

The partnerships support the SECOVE vision of promoting vocational excellence through stronger links between education, industry and innovation.

1.2 Portuguese Partnership Philosophy: Connecting Education and Industry

The Portuguese approach is based on the understanding that vocational excellence cannot be achieved through academic activities alone. Continuous dialogue with companies and professional organisations is essential to ensure that training provision reflects the current and future needs of the labour market.

The partnerships established under SECOVE are intended to:

- strengthen collaboration between education and industry;
- identify emerging skills needs;
- facilitate practical learning experiences;
- promote innovation and knowledge exchange;
- support the development of sustainable and future-oriented professions.

Rather than being isolated cooperation protocols, these agreements are viewed as the foundation of a long-term collaborative ecosystem.

1.3 Work-Based Learning (WBL) as a Strategic Pillar

Work-Based Learning represents one of the main educational principles of the SECOVE project.

The Portuguese partnership network aims to support different forms of WBL, including:

- internships;
- technical visits;
- practical demonstrations;
- collaborative projects;
- participation in innovation initiatives;
- future joint educational activities.

Through these experiences, learners are expected to strengthen technical competences while simultaneously developing transversal skills such as teamwork, communication, adaptability and problem solving.

The agreements also contribute to reducing the gap between theoretical education and industrial practice.

1.4 Alignment with Labour Market Needs

The sustainable energy sector is currently experiencing significant technological and organisational changes driven by the European Green Deal and the transition towards more sustainable economic models.

To respond to these challenges, the Portuguese SECOVE partners have sought to establish relationships with organisations representing complementary areas of expertise.

The selected partners contribute knowledge and experience in domains such as:

- sustainable construction;
- engineering and technological innovation;
- renewable energy;
- professional training;
- business, consultancy and financial services;
- insurance services;
- real estate and property management;
- software development and digital technologies.

This diversity supports the development of multidisciplinary competences aligned with labour market expectations.

1.5 Relationship with the SECOVE Academy and Networking Activities

The partnerships were established within a broader framework of networking and dissemination activities promoted under SECOVE.

In Portugal, these activities included:

- an in-person networking event dedicated to strengthening cooperation between VET providers and companies;
- participation in the ISEP Career Summit;
- an online event focused on future talents and the alignment of education with labour market demands.

These initiatives also contributed to promoting the SECOVE Academy and its educational resources, encouraging closer interaction between education providers, students and industry representatives.

2. OVERVIEW OF THE AGREEMENTS SIGNED

2.1 Portuguese Partnership Ecosystem

Within the framework of the SECOVE project, the Portuguese partners promoted networking activities aimed at strengthening cooperation between Vocational Education and Training (VET) providers and organisations capable of supporting Work-Based Learning (WBL).

At the time of this report, twenty national WBL agreements have been formally established and signed. These agreements represent the current Portuguese contribution to the SECOVE partnership ecosystem and provide a basis for future collaboration between education and industry.

The partnership network currently includes the following organisations:

No.	Partner Organisation	Main Area
1	Abora Portugal	Solar thermal energy technologies
2	Bultin	Engineering and technological innovation
3	CICCOPN	Construction and vocational training
4	Energiaia	Sustainable energy and innovation
5	Omegaflow	Engineering and industrial technological solutions
6	Soluções ao Relento	Technical and sustainable energy solutions
7	Virtual Campus	Digital learning and employability training solutions
8	Perfection Invest Imobiliários	Real estate and investment activities
9	Plano Equatorial	Consultancy and service activities
10	DS – Digital Seguros Universal	Insurance brokerage and financial services
11	Fractal	Real estate management and property services
12	Margacat	Real estate and financial investment activities
13	Eupasoft	Software development and digital technologies
14	Redadviser – Digital Solutions	Digital solutions and software services
15	Ambidata	Environmental consultancy and sustainability services

No.	Partner Organisation	Main Area
16	Lisahome	Real estate and property management services
17	Multilogus	Logistics, business support and operational services
18	Prait	E-commerce and digital retail solutions
19	DIS – Digital Innovation Systems	Digital innovation and software solutions
20	Refresh Bubbles – Serviços de Informática	Information technology and digital solutions

These organisations represent sectors that are relevant to the objectives of SECOVE and contribute to strengthening the relationship between education and industry.

The agreements establish a framework for future cooperation in activities related to student Work-Based Learning, practical training and interaction with professional environments.

2.2 Description of the Partner Organisations

2.2.1 Abora Portugal

Abora Portugal operates in the field of renewable energy technologies, with a particular focus on solar thermal solutions. The partnership contributes technical expertise and supports collaboration in areas related to sustainable energy and innovation.

2.2.2 Bultin

Bultin operates in the areas of engineering and technological innovation, contributing knowledge and experience in the development of technical solutions. The partnership supports collaboration in areas related to engineering, innovation and skills development.

2.2.3 CICCOPN

CICCOPN is a sectoral organisation operating in the construction sector, contributing expertise in professional qualification, technical development and industry-related activities. The partnership supports collaboration in areas related to construction, sustainability and skills development.

2.2.4 ENERGAIA

Energia operates in the sustainable energy sector, promoting innovation and collaboration among stakeholders involved in the energy transition. The partnership contributes expertise and supports initiatives related to sustainable energy and environmental sustainability.

2.2.5 OMEGAFLOW

Omegaflow operates in the field of engineering and industrial technological solutions, contributing technical expertise and practical knowledge in its areas of activity. The partnership supports collaboration in areas related to engineering, innovation and technology.

2.2.6 Soluções ao Relento

Soluções ao Relento operates in the field of technical and sustainable energy solutions, contributing practical expertise and professional experience. The partnership supports collaboration in areas related to sustainability, energy efficiency and technical innovation.

2.2.7 Virtual Campus

Virtual Campus operates in the field of digital learning and technology-enabled training solutions, contributing expertise in digital platforms and skills development. The partnership supports collaboration in areas related to digital innovation, learning technologies and professional development.

2.2.8 Perfection Invest Imobiliários

Perfection Invest Imobiliários operates in the field of real estate and investment activities, contributing practical expertise and professional experience. The partnership supports collaboration in areas related to entrepreneurship, professional development and knowledge exchange.

2.2.9 Plano Equatorial

Plano Equatorial operates in consultancy and service-related activities, contributing expertise and experience in its areas of operation. The partnership supports collaboration in areas related to professional practice, skills development and future Work-Based Learning opportunities.

2.2.10 DS – Digital Seguros Universal

DS – Digital Seguros Universal operates in the field of insurance brokerage and financial services, contributing practical expertise and professional experience. The partnership supports collaboration in areas related to professional development, innovation and interaction with real work environments.

2.2.11 Fractal

Fractal – Gestão de Imóveis operates in the field of real estate management and property-related services, contributing professional expertise and practical experience. The partnership supports collaboration in areas related to entrepreneurship, professional development and knowledge exchange.

2.2.12 Margacat

Margacat operates in the field of real estate and financial investment activities, contributing expertise and professional experience in its areas of operation. The partnership supports collaboration in areas related to business development, professional practice and future Work-Based Learning opportunities.

2.2.13 Eupasoft

Eupasoft operates in the field of software development and digital technologies, contributing expertise in information systems and technological innovation. The partnership supports collaboration in areas related to digital transformation, innovation and skills development.

2.2.14 Redadviser – Digital Solutions

Redadviser – Digital Solutions operates in the field of digital solutions and software services, contributing expertise in technology-enabled services and digital innovation. The partnership supports collaboration in areas related to digital transformation, professional development and innovation.

2.2.15 Ambidata

Ambidata operates in the field of environmental consultancy and sustainability services, providing expertise in environmental management, compliance and sustainable development. The partnership supports collaboration in areas related to environmental awareness, green skills and sustainable innovation.

2.2.16 Lisahome

Lisahome operates in the field of real estate and property management services, contributing expertise in property management and customer-oriented business practices. The partnership supports collaboration in areas related to professional development, entrepreneurship and work-based learning opportunities.

2.2.17 Multilogus

Multilogus operates in the field of logistics and business support services, contributing expertise in operational processes and organisational management. The partnership supports collaboration in areas related to professional development, employability and innovation in workplace practices.

2.2.18 Prait

Prait operates in the field of online retail of stationery and office supplies, contributing expertise in e-commerce, customer-oriented services and digital business operations. The partnership supports collaboration in areas related to entrepreneurship, digital commerce, professional development and work-based learning opportunities.

2.2.19 DIS – Digital Innovation Systems

DIS – Digital Innovation Systems operates in the field of digital innovation and software solutions, contributing expertise in digital transformation, information systems and technology-driven innovation. The partnership supports collaboration in areas related to digital skills development, professional training and work-based learning opportunities.

2.2.20 Refresh Bubbles – Serviços de Informática

Refresh Bubbles – Serviços de Informática operates in the field of information technology and digital solutions, providing expertise in software and IT services. The partnership supports collaboration in areas related to digital innovation, technological development and skills enhancement, contributing to future Work-Based Learning activities and closer interaction between vocational education and industry.

2.3 Trainee Profiles and Educational Background

The agreements are intended to support students and trainees from programmes associated with:

- engineering;

- sustainable energy;
- electrical systems;
- construction technologies;
- digital technologies;
- related technical disciplines.

The educational model combines theoretical learning with practical experiences that may be developed jointly with partner organisations.

2.4 Work-Based Learning Activities and Collaboration Opportunities

The agreements establish a framework for future WBL activities.

Potential forms of collaboration include:

- internships;
- technical site visits;
- practical demonstrations;
- project-based learning activities;
- collaborative technical initiatives;
- mentoring and interaction with professionals' demonstrations.

The specific implementation of these activities will depend on the operational planning agreed between the parties and on the needs identified throughout the project.

2.5 Transnational Work-Based Learning and Technical Synergies

Although the agreements are local and regional, they contribute directly to the European objectives of SECOVE.

The partnerships support:

- exchange of good practices;
- cooperation between European partners;
- development of innovative educational methodologies;
- alignment with European sustainability priorities;
- strengthening of the Centres of Vocational Excellence network.

The Portuguese ecosystem therefore contributes to the broader SECOVE strategy of promoting vocational excellence through international collaboration.

3. ADDED VALUE OF THE AGREEMENTS

3.1 Benefits for the VET Provider

The agreements strengthen the ability of the Portuguese VET ecosystem to respond to labour market needs.

Main benefits include:

- stronger industry engagement;
- support for curriculum modernisation;
- improved understanding of emerging skills;
- opportunities for future collaborative projects;
- reinforcement of vocational excellence.

3.2 Benefits for Students

Students are expected to benefit through:

- contact with real professional environments;
- development of practical competences;
- increased employability;
- improved understanding of the sustainable energy sector;
- development of communication and teamwork skills.

These experiences contribute to a smoother transition from education to employment.

3.3 Benefits for Companies

The agreements also create value for partner organisations.

Companies benefit from:

- closer interaction with education providers;
- opportunities to contribute to skills development;
- identification of future talent;
- participation in innovation initiatives;
- stronger engagement with regional and European educational networks.

3.4 Strategic Relevance for the SECOVE Project

The Portuguese partnership ecosystem directly supports the strategic objectives of SECOVE.

The agreements contribute to:

- vocational excellence;
- Work-Based Learning;
- innovation;
- sustainability;
- stronger education-industry cooperation;
- alignment with the green and digital transitions.

3.5 Contribution to the Green and Digital Transition

The organisations involved operate in sectors closely connected with sustainability and technological innovation.

The partnerships therefore contribute to the preparation of a workforce capable of responding to future challenges associated with:

- renewable energy;
- sustainable construction;
- digital transformation;
- engineering innovation;
- environmental responsibility.

4. CONCLUSION

The local and regional partnerships established in Portugal with companies and sectoral organisations, demonstrate a clear commitment to strengthening vocational education through meaningful cooperation with industry and external stakeholders.

Although the partnership network will continue to evolve, the agreements already formalised provide a solid basis for future Work-Based Learning activities and contribute to the long-term sustainability of the SECOVE ecosystem.

By reinforcing collaboration between education and industry, promoting practical learning and supporting the development of skills required for the green transition, these partnerships contribute directly to the objectives of the SECOVE project and to the creation of a more resilient and future-oriented vocational education system.



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ANNEX III.

REPORT FROM LOCAL AND REGIONAL WBL PARTNERSHIPS IEK DELTA - GREECE



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1. SUMMARY

DELTA 360 engaged with companies, industry representatives, and business support organisations through networking activities, stakeholder meetings, project presentations, and direct outreach actions. Particular emphasis was placed on promoting the benefits of work-based learning and identifying common areas of interest between educational programmes and labour market needs. The activities were further supported through collaboration with SECOVE partners in Greece, including the Chamber of Small and Medium-sized Enterprises of Piraeus (BEP), which facilitated stakeholder engagement and networking opportunities. Activities carried out such as local networking events and discussions with industry representatives, also contributed to the identification and mobilisation of potential partner companies.

As a result, DELTA 360 established formal cooperation agreements with 20 companies through the signing of Memoranda of Understanding (MoUs). The agreements provide a framework for collaboration in the implementation of internships and work-based learning activities, while also supporting closer cooperation between VET providers and industry. Through these partnerships, DELTA 360 contributed to enhancing students' employability, facilitating skills development in real working environments, and strengthening the alignment of vocational education with labour market requirements.

2. OVERVIEW OF THE AGREEMENTS SIGNED

DELTA 360 established a total of 20 Memoranda of Understanding (MoUs) with companies and organisations operating in sectors relevant to the SECOVE project, including sustainable energy, engineering, digital technologies, transport, security systems, consultancy, education and training, hospitality, and technical services. The agreements were designed to support work-based learning (WBL), internships, apprenticeships, and other forms of cooperation between vocational education and industry.

The partner organisations included HotelBrain Academy, A-Z Engineering, Delistathis OE, DIAQ, IDEC, Learn2Innovate, MAC Security Systems, Mind the Add, Petrogaz, STASY, WOODY, Balances 1, Balances 3, Balances 4, and additional companies from DELTA 360's network that signed cooperation agreements under the SECOVE framework.

The companies expressed their willingness to host trainees from study fields related to engineering and technical professions, renewable energy and sustainability, electrical and mechanical systems, information and communication technologies, business administration, marketing and digital communication, hospitality and tourism, and other vocational specialisations offered by DELTA 360. Depending on their operational capacity and sectoral expertise, companies indicated their interest in hosting one or more trainees annually through internships and practical training placements.

The agreements established the framework for cooperation and student placements, while several companies had already expressed interest in receiving trainees through DELTA 360's internship and work-based learning programmes. These partnerships created the conditions for the implementation of future WBL periods and strengthened long-term collaboration between vocational education and industry in Greece.

3. ADDED VALUE OF THE AGREEMENTS

The signing of the cooperation agreements provided significant benefits for both DELTA 360 and its students. For DELTA 360, the agreements strengthened relationships with companies and industry stakeholders, creating a sustainable network of partners able to support internships, practical training, guest lectures, site visits, and future collaborative initiatives. The partnerships also enabled the institution to maintain closer contact with labour market developments and better align its educational programmes with industry needs.

For students, the agreements increased access to work-based learning opportunities and real working environments, allowing them to develop practical skills, gain professional experience, and improve their employability. Through direct interaction with companies, students were able to better understand workplace requirements, strengthen their professional competences, and facilitate their transition from education to employment.

By establishing formal business-education partnerships, DELTA 360 contributed to the development of a sustainable ecosystem that promotes work-based learning, supports skills development in the green and digital transition, and enhances the responsiveness of vocational education to regional and sectoral labour market needs.



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ANNEX IV.

REPORT FROM LOCAL AND REGIONAL WBL PARTNERSHIPS – SAEK EGALEO



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1. SUMMARY

1.1 Scope and Objective of the Deliverable

The purpose of this deliverable is to present the network of local and regional partnerships established by SAEK Egaleo within the framework of the SECOVE project. These partnerships have been developed with companies and organizations operating across the sustainable energy value chain, including renewable energy generation, energy storage, electrical infrastructure, industrial automation, e-mobility, and energy management systems.

The primary objective is to strengthen the connection between vocational education and the labour market by creating meaningful Work-Based Learning (WBL) opportunities. Through these collaborations, learners gain direct exposure to real industrial environments, emerging technologies, and professional practices that reflect the ongoing green transition and the growing demand for skilled personnel in the renewable energy sector.

1.2 Strategic Partnership Philosophy: Prioritizing Field Experience over Academic Isolation

SAEK Egaleo has adopted a partnership philosophy that places practical experience and direct industry engagement at the centre of vocational excellence. Rather than limiting learning to classroom-based instruction, the institution actively collaborates with companies that provide authentic workplace environments where learners can apply theoretical knowledge in real-world conditions.

The selected partners represent a broad spectrum of the sustainable energy ecosystem, including photovoltaic installations, wind energy projects, electrical power systems, industrial automation, electric vehicle charging infrastructure, energy storage technologies, and technical support services. This diversified approach ensures that trainees are exposed to multiple dimensions of the renewable energy sector, allowing them to develop both technical competencies and professional skills highly valued by employers.

1.3 Work-Based Learning (WBL) as a Non-Negotiable Cornerstone

Work-Based Learning constitutes a fundamental pillar of SAEK Egaleo's educational strategy and aligns directly with the objectives of the SECOVE project. WBL is regarded

not as an optional educational activity but as an essential component of vocational training that bridges the gap between education and employment.

Through placements, site visits, technical demonstrations, collaborative projects, and direct interaction with industry professionals, trainees gain hands-on experience in renewable energy systems, electrical installations, energy efficiency applications, industrial equipment, and sustainable infrastructure projects. These experiences contribute significantly to the development of practical skills, problem-solving abilities, safety awareness, and professional readiness, ensuring that graduates are prepared to meet the evolving demands of the green economy.

1.4 Market Dynamic and Curation Strategy

The partnership network has been carefully curated to reflect current and emerging trends within the sustainable energy sector. The selection process prioritized organizations actively contributing to renewable energy deployment, energy transition initiatives, smart energy technologies, and sustainable industrial development.

Particular emphasis was placed on securing partnerships across complementary sectors, including photovoltaic energy systems, wind energy applications, battery storage technologies, electric mobility, industrial automation, electrical infrastructure, energy management solutions, and supporting logistics services. This diversity enables learners to gain a comprehensive understanding of the renewable energy ecosystem while ensuring alignment with labour market needs and future employment opportunities.

By continuously engaging with industry stakeholders and monitoring technological developments, SAEK Egaleo ensures that its educational activities remain relevant, innovative, and responsive to the rapidly evolving sustainable energy landscape, supporting the long-term objectives of SECOVE and the wider European Green Deal.

2. OVERVIEW OF THE AGREEMENTS SIGNED

2.1 List of Partner Companies and Relevant Sectors

No.	Company Name	Sector & Core Business Activity Relevant to SECOVE
1	NANODOMI	Large-scale photovoltaic (PV) installations, specialized maintenance, advanced inverter diagnostics and repairs, supporting hands-on training in renewable energy technologies.
2	MESSARITIS S.A.	Development, construction, and technical engineering of utility-scale photovoltaic parks and wind energy installations, providing exposure to large-scale renewable energy infrastructure.
3	ANDROMEDAS	Advanced energy storage solutions, industrial battery systems, and residential/commercial photovoltaic installations, contributing expertise in energy transition technologies.
4	ELTRAK	Official Caterpillar (CAT) representative specializing in heavy-duty UPS systems, power generators, and industrial energy management solutions relevant to energy resilience and grid stability.
5	DP GREEN	Engineering, procurement, installation, and preventive maintenance of photovoltaic systems, supporting practical learning in solar energy deployment.
6	HLEKTROMOTIVO	Electric Vehicle (EV) charging infrastructure, smart charging networks, and solar-powered charging stations, promoting sustainable mobility and green energy integration.
7	MSE ENERGEIAKI	Engineering and implementation of commercial solar parks and utility-scale wind energy systems, enhancing trainee understanding of renewable energy project development.
8	QLEEN	Specialized photovoltaic cleaning services, asset management, thermal imaging diagnostics, and optimization of solar energy systems.
9	QLEEN EE	Technical support, fault diagnosis, restoration, and efficiency optimization services for photovoltaic installations.

No.	Company Name	Sector & Core Business Activity Relevant to SECOVE
10	DELISTATHIS KONSTANTINOS	Field electrical engineering services specializing in photovoltaic park installation, commissioning, maintenance, and operational support.
11	PARTSINEVELOS DIMITRIS	Electrical field engineering focused on power installations, industrial electrical systems, and renewable energy infrastructure deployment.
12	ILIATORAS PHOTOVOLTAICS	Design, installation, maintenance, and optimization of photovoltaic systems, contributing expertise in residential and commercial solar energy applications.
13	MP ENERGY	Renewable energy solutions including autonomous and grid-connected photovoltaic systems, energy storage technologies, and sustainable energy applications.
14	VEP – Piraeus Chamber of Industry	Industrial and manufacturing sector representation supporting industry networking, green transition initiatives, energy efficiency, and workforce development in renewable energy sectors.
15	CHRISTOPOULOS NIKOLAOS (YAMAHA)	Electrical machines, electromechanical systems, motor technologies, and energy-efficient industrial applications relevant to sustainable energy engineering.
16	MITAS – BARAKOS O.E.	Electrical equipment, industrial automation systems, power distribution materials, and technical solutions supporting renewable energy installations.
17	KANELLAKIS S.A.	Industrial electrical equipment, automation technologies, energy management systems, and technical infrastructure supporting renewable energy projects.
18	ELECTROGENES ELECTRIC	Electrical power installations, industrial automation, control systems, and technical implementation of energy-related projects.
19	GIANNAKIS CHRISTOFOROS TRANSPORTS	Specialized transport and logistics services supporting renewable energy projects, including transportation of photovoltaic equipment, wind turbine components, and large-scale energy infrastructure materials.
20	MYNP3	Company categorized in computer software for energy management
21	STASY S.A.	Transportation company with major energy saves installation and future installation of PV's.
22	BOGEAS KONSTANTINOS	Shipping repairing company and nautical energy management company.

Summary of Sector Coverage

The partnership network established by SAEK Egaleo demonstrates strong engagement with the renewable energy ecosystem in Greece. The participating companies collectively cover photovoltaic energy systems, wind energy, energy storage technologies, electric mobility infrastructure, industrial automation, electrical power installations, energy management systems, logistics for renewable energy projects, and industrial equipment supply. This diversified partnership structure ensures extensive opportunities for Work-Based Learning (WBL), allowing trainees to acquire practical skills aligned with the objectives of the SECOVE project and the evolving needs of the sustainable energy sector.

2.2 Trainee Profiles and Educational Background

The learners participating in the Work-Based Learning (WBL) activities primarily originate from vocational education and training programmes related to Electrical Engineering, Renewable Energy Technologies, Industrial Automation, Energy Systems, and Technical Installations. Their educational background combines theoretical instruction with laboratory-based training, providing a solid foundation in electrical systems, photovoltaic technologies, energy efficiency, control systems, and industrial applications.

Participants represent different levels of prior experience, ranging from trainees entering the renewable energy sector for the first time to learners seeking to further specialize in sustainable energy technologies. The diversity of partner companies enables trainees to explore multiple career pathways within the green economy, including renewable energy generation, electrical infrastructure, energy management, electric mobility, industrial maintenance, and technical support services.

The educational profiles of the trainees align closely with the objectives of the SECOVE project, supporting the development of technical competencies, digital skills, sustainability awareness, and employability within the rapidly evolving energy sector.

2.3 Work-Based Learning (WBL) Placements and Periods

The established partnerships provide a broad range of Work-Based Learning opportunities that allow trainees to gain direct experience in authentic professional environments. WBL activities include workplace placements, technical site visits, practical demonstrations, project-based learning activities, mentoring sessions, and participation in ongoing industrial operations.

The duration and structure of placements vary according to company capacity, learner profiles, and specific training objectives. Activities are organized throughout the academic year and are designed to expose trainees to real-world applications of renewable energy technologies, electrical installations, energy storage systems, industrial automation, electric vehicle charging infrastructure, and energy management solutions.

Through these placements, learners develop practical competencies in installation, commissioning, maintenance, troubleshooting, safety procedures, quality assurance, and technical documentation. The WBL experience significantly enhances their readiness for employment while strengthening cooperation between vocational education providers and industry stakeholders.

2.4 Analysis of Transnational Work-Based Learning (WBL) & Technical Synergies

Although the partnership network presented in this report is primarily composed of Greek companies and organizations, its structure and operational philosophy strongly support the transnational objectives of the SECOVE project. The participating enterprises operate in sectors that are directly aligned with European priorities concerning renewable energy deployment, sustainable infrastructure, energy efficiency, decarbonisation, and the green transition.

The technical expertise represented within the partnership network creates significant opportunities for knowledge exchange with SECOVE partners across Europe. Common areas of interest include photovoltaic technologies, wind energy systems, battery storage solutions, smart energy management, electric mobility infrastructure, industrial automation, and advanced maintenance practices.

These shared technological domains facilitate the transfer of best practices, the development of joint training methodologies, and the creation of innovative educational resources that can be adapted across different European vocational education contexts. Furthermore, the partnerships contribute valuable industry insights that support the continuous modernization of curricula and the alignment of training provision with emerging labour market requirements.

The combination of local industrial engagement and European cooperation strengthens the overall impact of SECOVE by fostering a collaborative ecosystem where vocational education providers, companies, and learners collectively contribute to the development of a highly skilled workforce capable of supporting Europe's sustainable energy future. (All that despite the factor that in Greece the major part of Renewable companies are based alone companies and companies with 2-3 workers inside)

3. ADDED VALUE OF THE AGREEMENTS

3.1 Benefits for the VET Provider

The establishment of a strong network of industry partnerships significantly enhances the capacity of SAEK Egaleo to deliver high-quality vocational education and training aligned with labour market needs. Through continuous collaboration with companies operating in renewable energy, electrical engineering, industrial automation, and sustainable infrastructure, the institution gains direct access to current technological developments, industry practices, and emerging skill requirements.

These partnerships contribute to the modernization of training programmes, support curriculum updates, and facilitate the integration of practical learning experiences into educational activities. Furthermore, collaboration with industry professionals strengthens the relevance of vocational training, improves stakeholder engagement, and reinforces the role of SAEK Egaleo as an active contributor to regional and national sustainable development initiatives.

The partnership network also promotes knowledge exchange between education and industry, supporting innovation in teaching methodologies and creating opportunities for future collaborative projects related to green technologies and workforce development.

3.2 Benefits for the Students

The partnerships established within the framework of SECOVE provide substantial benefits for learners by offering direct exposure to professional environments and real-world technical applications. Through Work-Based Learning activities, students are able to apply theoretical knowledge in practical settings, strengthening both their technical competencies and professional confidence.

Exposure to renewable energy projects, photovoltaic installations, electrical power systems, energy storage technologies, industrial automation, electric vehicle charging infrastructure, and energy management solutions allows learners to develop industry-relevant skills that are highly valued in the modern labour market.

In addition to technical expertise, students enhance their communication, teamwork, problem-solving, and adaptability skills through interaction with experienced professionals. These experiences improve employability, facilitate smoother transitions into the workforce, and help learners better understand career

opportunities within the rapidly expanding sustainable energy sector.

The partnerships also increase student awareness of innovation, sustainability, environmental responsibility, and the role of technology in supporting the green transition, contributing to the development of responsible and future-oriented professionals.

3.3 Strategic Relevance for the SECOVE Project

The partnership ecosystem developed by SAEK Egaleo directly supports the strategic objectives of the SECOVE project by creating strong and sustainable links between vocational education and the renewable energy industry. The participating organizations collectively represent key sectors of the sustainable energy value chain, including renewable energy generation, energy storage, electrical infrastructure, industrial automation, electric mobility, energy efficiency, and supporting technical services.

These collaborations strengthen the practical dimension of vocational excellence by ensuring that training activities reflect current industry practices and technological developments. They also contribute to the development of innovative educational approaches, the promotion of Work-Based Learning, and the enhancement of skills required for the green and digital transitions.

Furthermore, the partnership network serves as a valuable platform for the exchange of expertise and best practices among educational institutions, industry stakeholders, and European SECOVE partners. This collaborative approach supports the long-term sustainability of project outcomes and contributes to the creation of a highly skilled workforce capable of responding to future challenges within the sustainable energy sector.

Conclusion

The local and regional partnerships established by SAEK Egaleo demonstrate a strong commitment to strengthening vocational education through meaningful collaboration with industry. By engaging companies and organizations operating across various segments of the sustainable energy ecosystem, the institution has created a dynamic framework that supports high-quality Work-Based Learning experiences and enhances the relevance of vocational training.

The diversity of the partnership network ensures that learners are exposed to a broad range of technologies, professional environments, and emerging market trends related to renewable energy, energy efficiency, electrical systems, industrial automation, and sustainable infrastructure. These experiences contribute significantly to the development of technical skills, employability, and professional readiness.

At the same time, the partnerships reinforce the objectives of the SECOVE project by promoting vocational excellence, fostering innovation, supporting the green transition, and strengthening cooperation between education and industry. Through this integrated approach, SAEK Egaleo contributes to the development of a resilient, skilled, and future-ready workforce capable of supporting Europe's transition towards a more sustainable and energy-efficient economy.



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ANNEX V.

REPORT FROM LOCAL AND REGIONAL WBL PARTNERSHIPS – STAVKE



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1. SUMMARY

This report presents the local and regional Work-Based Learning (WBL) partnerships established by Stredná priemyselná škola stavebná a geodetická, Košice, Slovakia, within the framework of the SECOVE project.

The school has established cooperation agreements with seven Slovak companies and professional organisations operating in sectors closely related to vocational education and training in construction, architecture, geodesy, infrastructure development and related technical fields. These partnerships were created to strengthen cooperation between education and industry and to provide students with opportunities to gain practical experience in real working environments.

The agreements establish a framework for organising work placements, professional practice and other forms of work-based learning. Through these partnerships, students are able to improve their professional competences, gain practical skills, become familiar with current technologies and workplace requirements, and increase their employability after graduation.

The established cooperation contributes directly to the objectives of the SECOVE project by enhancing the quality of vocational education, strengthening links with employers and supporting the development of skills relevant to the labour market and sustainable regional development.

2. OVERVIEW OF THE AGREEMENTS SIGNED

A total of 20 collaboration agreements were signed with Slovak companies and professional organisations.

The partner organisations are:

1. Cech strechárov Slovenska
2. DOM+ s.r.o.
3. EUROVIA SK, a.s.
4. GEOKOD, s.r.o.
5. HL Build s.r.o.
6. LOOK ARCH s.r.o.
7. RAMESEUM SK, s.r.o.
8. IZOLA Košice, s.r.o.
9. Zelena stavba, s.r.o.
10. EVIL, s.r.o.
11. Ing. Dávid Krózser, Civil Engineer
12. Ing. Daniela Komendatová, Civil Engineer
13. Ing. Andrea Moňoková, PhD., Civil Engineer
14. MORIS SLOVAKIA s.r.o.
15. VOLTOM s.r.o.
16. DAR KOM s.r.o.
17. Ing. Peter Špak, Civil Engineer
18. D.J.M. s.r.o.
19. Klima – Teplo designing, s.r.o.
20. 5D Projekt s.r.o.

The partners represent sectors relevant to the educational programmes provided by the school, including construction, civil engineering, architecture, geodesy, infrastructure development and professional associations supporting vocational education.

The signed agreements establish a framework for work-based learning activities and professional placements for students. The partner organisations are willing to cooperate in the provision of practical training opportunities and to support students in acquiring professional skills and workplace experience.

The agreements also facilitate regular communication between the school and employers, ensuring that training activities reflect current labour market needs and industry requirements.

At the time of reporting, the agreements serve as a foundation for future work-based learning activities and long-term cooperation between the school and its regional stakeholders.

3. ADDED VALUE OF THE AGREEMENTS

The established partnerships bring significant benefits both to the school and its students.

For students, the agreements provide opportunities to acquire practical experience in real working environments and to apply theoretical knowledge gained during their studies. Students can develop professional, technical and interpersonal skills while becoming familiar with modern technologies, work processes and quality standards used in the construction and engineering sectors.

For the school, the agreements strengthen cooperation with industry representatives and ensure that educational activities remain aligned with labour market requirements. The collaboration supports the continuous improvement of vocational education programmes and helps identify emerging skills needs in relevant sectors.

The involvement of companies and professional organisations enhances the relevance and attractiveness of vocational education and contributes to stronger links between education and employment. These partnerships also create opportunities for future joint activities, expert consultations, guest lectures and other forms of cooperation.

From the perspective of the SECOVE project, the agreements contribute to the creation of a sustainable ecosystem connecting vocational education providers with employers and professional organisations. They support the development of Centres of Vocational Excellence by promoting innovation, practical learning and stakeholder engagement at local and regional levels.



SECOVE

SUSTAINABLE ENERGY CENTRES OF VOCATIONAL EXCELLENCE

<https://secove-project.eu>

ANNEX VI.

REPORT FROM LOCAL AND REGIONAL WBL PARTNERSHIPS_CIOFS-FP ETS



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1. SUMMARY

Provide an introduction of the activities carried out in this deliverable, VET provider and country involved, etc.

This deliverable presents the collaboration agreements established by CIOFS-FP ETS (Italy) within the framework of the SECOVE project and the activities carried out to strengthen cooperation between vocational education and training, industry, research organisations, innovation stakeholders and international partners.

As the Italian VET provider participating in SECOVE, CIOFS-FP ETS has actively contributed to the development of the Italian Innovation Hub, promoting collaboration among education providers, companies, technology developers, research centres and public stakeholders operating in the fields of sustainable energy, digitalisation and innovation. The agreements were established to support work-based learning opportunities, applied research activities, skills development and knowledge exchange, while fostering stronger links between education and the labour market.

The activities described in this deliverable were implemented in Italy and involved both national and transnational partners. At national level, CIOFS-FP engaged companies, professionals and technology providers contributing to the objectives of the Innovation Hub. A particularly significant collaboration was established with Etechus, a technology company involved in the development of the SECOVE Digital Twin platform and in supporting students participating in applied research activities related to Digital Twin technologies and energy monitoring systems.

At international level, CIOFS-FP ETS signed collaboration agreements with organisations from Greece, Portugal and Spain, including engineering companies and energy agencies. These agreements contribute to the creation of a wider European ecosystem supporting vocational excellence, mobility opportunities, knowledge transfer and cooperation between education, research and industry.

Overall, the agreements contribute to the SECOVE objectives of strengthening Centres of Vocational Excellence, promoting innovation ecosystems, supporting work-based learning, fostering applied research and enhancing the development of green and digital skills relevant to the sustainable energy sector. The collaboration network established through these agreements also represents an important element for ensuring the long-term sustainability and impact of the Italian Innovation Hub beyond the duration of the project.

2. OVERVIEW OF THE AGREEMENTS SIGNED

Provide a description of the nº of agreements signed, a list of companies, sectors relevant to SECOVE project, and nº of trainees and their profiles (study families) they are willing to host. If any WBL periods have been carried out please also specify.

During the reporting period, CIOFS-FP ETS strengthened the regional innovation ecosystem connected to the Secove innovation hub through the establishment of a structured network of companies, professionals and technology providers willing to support vocational education, innovation activities and work-based learning opportunities for students.

To formalise these collaborations, CIOFS-FP ETS signed a series of cooperation agreements with companies and professionals operating in fields related to sustainable energy, digitalisation, engineering, construction, ICT and innovation services.

The agreements establish a common framework for student work placements, mentoring activities, practical training, feedback mechanisms and cooperation between education and industry.

In particular, the agreements foresee the provision of meaningful learning experiences, workplace supervision, mentoring and continuous interaction between the companies and the VET provider, ensuring the quality and sustainability of the placements.

The network includes SMEs, engineering companies, digital service providers, renewable energy stakeholders and freelance professionals safety & security and other local enterprises that have committed themselves to hosting and mentoring learners within real working environments.

A particularly relevant contribution to the innovation hub has been provided by **Etechus**, an engineering and technology services company involved as stakeholder and technological partner of the secove initiative. Etechus supported the design and development of the “Secove Digital twin” platform, conceived as a learning and innovation environment for monitoring and optimising energy consumption through iot technologies and digital twin methodologies.

The company contributed to the development of advanced functionalities including BIM and IFC model integration, monitoring systems, data visualisation, laboratory management tools and digital twin applications, all of which are central components of the hub’s innovation strategy.

The collaboration with Etechus enabled the creation of an educational laboratory where students can acquire practical competences in digital construction, energy monitoring, data analysis and sustainable energy management. The digital twin platform allows users to interact with virtual models of buildings, associate monitoring devices, analyse real-time energy data and explore advanced concepts such as predictive monitoring and smart building management. These collaborations directly support the objectives of the Secove innovation hub,

which acts as a bridge between vocational education, research and industry. Through the involvement of companies and technology providers, the hub promotes work-based learning, technology transfer, innovation services and the development of skills related to sustainable energy, BIM, digital twin technologies and smart buildings. Overall, the agreements and stakeholder engagement activities contribute to strengthening the regional ecosystem, increasing opportunities for learners, supporting SMEs in innovation processes and ensuring the long-term sustainability of the Secove centre of vocational excellence in Italy.

In addition to the regional and national network of companies involved in the SECOVE Innovation Hub, CIOFS-FP established a significant number of transnational collaboration agreements with European organisations, research institutions, universities, training providers and sectoral clusters. These agreements extend the Hub's ecosystem beyond the Italian context and strengthen its integration within the wider SECOVE European network.

The agreements were signed with organisations operating in Portugal, Greece and Spain. These organisations represent complementary expertise in engineering, digital technologies, energy management, vocational education, innovation ecosystems and industry cooperation.

The collaboration agreements establish a common framework for work placements, knowledge exchange, mentoring, supervision of learners, joint innovation activities and cooperation between education and industry. All partners committed themselves to providing students with practical learning opportunities, technical guidance, workplace mentoring and regular feedback mechanisms, while supporting the development of employability and professional competences in real working environments.

These transnational agreements significantly enhance the capacity of the Italian Innovation Hub by facilitating the exchange of expertise and good practices in areas such as sustainable energy, smart buildings, BIM methodologies, Digital Twin technologies, energy efficiency, digitalisation and innovation management. They also create opportunities for future learner mobility, staff exchanges, joint pilot projects and collaborative experimentation activities across Europe.

The international dimension of these agreements contributes directly to the long-term sustainability of the SECOVE Innovation Hub, supporting its ambition to become a national reference point in sustainable energy and digital construction while remaining actively connected to European Centres of Vocational Excellence, research organisations, innovation clusters and industry stakeholders.

3. ADDED VALUE OF THE AGREEMENTS

Describe the main benefits of signing these agreements for your VET provider and your students and the relevance for the SECOVE project.

The collaboration agreements signed with companies, technology providers, research organisations, universities, innovation clusters and VET institutions have significantly strengthened the capacity of CIOFS-FP to operate within an innovation-oriented ecosystem. Through these agreements, CIOFS-FP expanded its network of stakeholders at both national and European level, creating new opportunities for cooperation in vocational education, work-based learning, applied research, innovation activities and skills development.

For students, the agreements provide access to real working environments, professional mentoring, technical expertise and practical learning opportunities that complement classroom-based education. Through interaction with companies and external experts, learners can better understand industry requirements, develop technical and transversal competences, and gain exposure to innovative technologies and professional practices relevant to the sustainable energy sector.

A particularly valuable example was the collaboration with Etechus, which supported students from the CIOFS-FP VET centres in Bologna and Trieste participating in the SECOVE Applied Research Competition. Through training activities, technical assistance and mentoring, Etechus helped students develop projects based on Digital Twin technologies, allowing them to apply theoretical knowledge to real innovation challenges and gain direct experience with advanced digital tools used in the energy and construction sectors.

The transnational agreements further increased the international dimension of the learning experience by connecting CIOFS-FP with organisations from Portugal, Spain and Greece. These partnerships facilitate the exchange of knowledge, good practices and expertise, while creating favourable conditions for future mobility activities, collaborative projects and cross-border innovation initiatives.

From the perspective of the SECOVE project, the agreements contribute directly to the objectives of strengthening cooperation between VET, industry and research, promoting Centres of Vocational Excellence, fostering innovation ecosystems and supporting the development of green and digital skills. They also reinforce the long-term sustainability of the Italian Innovation Hub by creating a structured network of stakeholders committed to supporting education, innovation and workforce development beyond the duration of the project.