

ARISE

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Revolutionising the learning process by changing the face of delivery and recognition of sustainable energy skills in the construction sector

That's the target for the ARISE project team as they seek to deliver their new EU wide skills and training project, *boosting thereby market uptake of qualified workforce*

ARISE has secured a €1.12M grant from the Horizon 2020 Work Program: *Building a Low-Carbon, Climate Resilient Future: Secure, Clean and Efficient Energy*, under the Call: *Increasing Market Demand for Sustainable Energy Skills in the Building Sector*.

ARISE's mission is to support the twin transition of the construction sector and to contribute thereby to the European Recovery and Resilience Plans 2021-2027, by providing the construction sector workforce with digital and sustainable energy skills of the future, along with demand-side guidelines for marketable appreciation of skills and exploitation of benefits thereof.

Through a highly innovative approach, ARISE will deploy a system coupling methodology and approach, and encompassing:

- 1) Skills delivery method
- 2) Learning accounts transaction and recognition
- 3) Matrix of skills maturity, leading to new qualifications and jobs
- 4) Profession-based learning content
- 5) Impacts of skills on buildings' energy performance
- 6) New market and regulatory models of skills dem
- 7) Stimulation of investments in high energy performance buildings

Engaged in the project demonstration stage, over 1000 stakeholders across Europe will improve their skills and competences, providing therefore project induced impact of over 4.5 million kWh/year of energy savings, 2.25 million kWh/ year of RES energy generation,

reduction of GHG emissions by over 3.5 tons/year and initiation of 1.3 million EUR/year of investments in NZEBs. As a long-term cumulative impact, ARISE aims to contribute by over 75 million kWh of clean energy use in buildings and over 8,7 million EUR of green investments.

ARISE will revolutionise the learning process by monetising skills development and learning exchange with a digital system based on skills recognition rather than accreditation. The training and transaction system developed by the project will reward learners as they achieve competence at a certain level with the crypto currency for skills exchange: CERTcoin, the innovative currency of skills and learning of the construction sector embracing today's digital transformation benefits. The learners' CERTcoins, based on skills and time credits will be stored in an Individual Learning Account and can be used as digital points accumulation for example in a skills barometer or for exchanging it into valid certificates. It will be an easier accessible, less time consuming and still competitive way to upskill blue and white collars, as well as market-demand side, public administration, clients and owners

ARISE will apply digitalisation both as a learning method and as a framework of job-based construction skills of the future, multiplying the effects of the green transition skills. The novel training method will make the learning process attractive and effective, facilitating its accessibility through a mobile (smartphone) and a user-friendly, web-based platform. The intervention / learning progress will be achieved in a scalable way, in bite-sized skills delivery. ARISE will apply digitalisation and the earning of learning credits in a "step by step" recognition of competences, as an accelerator to empower demand for sustainable energy skills in the construction sector, and as an enabler of formal certification. This system will be employed based on blockchain procedures to instil transparency and trust.

ARISE utilises a circular economy approach specifically utilising digital skills stimulation and delivery across the entire building life cycle and assets to decarbonise the complete energy cycle. This approach harnesses the market drivers from the demand side and matches these with impact targeted strategies and objectives required to achieve comprehensive success. ARISE represents a multi-faceted approach to tackle the carbon footprint of the construction sector. It is a pioneering training scheme AND a powerful socio - economic

cross-sectional influencer, affecting the multiple sectors of education, industry, market, and policy by delivering a dynamic training and market uptake model.

The project led by Belfast Metropolitan College with eight other European partners will be launched in September 2021. Within 28 months, until December 2023, partners will work on development and demonstration of the innovative on demand training scheme for digitalisation towards sustainable energy skills, aimed at both supply and demand side.

The nine partners in the project consortium are:

- Belfast Metropolitan College, Northern Ireland
- Technological University Dublin, Ireland
- Institute for Research in Environment, Civil Engineering and Energy, North Macedonia
- ISSO, The Netherlands
- Conseil des Architectes D Europe Brussels
- IBIMI Institute for BIM- Italy
- Building Changes, B.V. The Netherlands
- Copenhagen School of Design and Technology Denmark
- Instituto Superior Technico, Portugal