

contact@strumat-lto.eu www.strumat-lto.eu LinkedIn: @STRUMAT-LTO

STRUCTURAL MATERIALS FOR NUCLEAR SAFETY & LONGEVITY

AN H2020 PROJECT

AIMING TO FILL RESEARCH GAPS IN NUCLEAR REACTOR AGEING MECHANISMS.

STRUMAT-LTO will specifically focus on Reactor Pressure Vessel (RPV) embrittlement, one of the main causes hindering the Long Term Operation (LTO) of nuclear reactors.



PROJECT COORDINATOR Dr. Akos Horvath, EK-CER



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Extending the lifetime of reactors to or beyond 60 years is common in countries with strong nuclear programmes.



Reactor Pressure Vessels must prove their durability and resistance to be approved for Long Term Operation.

To measure durability and resistance for Long Term Operation, current tools must be adapted and validated.

PROJECT OBJECTIVES

THE GOAL:

TO ENSURE SAFE LONG TERM OPERATION, IN SUPPORT OF THE EU ENERGY TRANSITION.

STRUMAT-LTO has set four objectives that will improve the reliability and competitiveness of nuclear power plants, and in turn, boost European efforts to achieve decarbonisation targets. They are: 1

To address the remaining gaps and issues preventing operation beyond 60 years.

2

To validate prediction tools and testing methods for increased assessment accuracy.

3

To transfer knowledge from retiring experts to a new generation of scientists.

MEET THE PARTNERS



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To disseminate findings and boost outreach to maximise the impact of project results.





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