

## Milestones & Deliverables

Length of this project is 2 years (it will be completed by 31st January 2021).

Name	Description	Estimated delivery month
Deliverable 1 RTU	Project kick-off meeting is organized	M0
Deliverable 2 RKB	Functioning marine diesel engine is made available at the Riga Ship yard	M2
Deliverable 3 INCT	Drawings regarding system integration and concept design of air curtain system. <b>Collaboration on the accelerator selection.</b>	M3
<i>Milestone 1 all</i>	<ul style="list-style-type: none"> <li>– Design and drawings of the process vessel is provided to RTU and RKB based on the inputs received from the Partners</li> <li>– Design of the exhaust gas cooling elements is provided to RTU and RKB based on the inputs received from the Partners</li> <li>– Design and integration of the control and monitoring devices is provided to</li> </ul>	M6
Deliverable 4 ebeam	Appropriate accelerator and all supporting systems are made available and are delivered to the Riga Ship yard	M8
Deliverable 5 RTU; RKB; INCT Remontowa	<ul style="list-style-type: none"> <li>– All components are manufactured and assembled on the engine</li> <li>– Accelerator is installed on the process vessel</li> <li>– Accelerator windows and curtains are installed</li> <li>– Electrical and control elements are installed</li> </ul>	M10
Deliverable 6 INCT; RTU; UH	Measuring devices are provided and installed on the prototype	M11
<i>Milestone 2 all</i>	Prototype is made ready for the tests	M12
Deliverable 7 RTU	Mid-term review meeting is organized – progress report	M12
Deliverable 8 INCT	Computer simulation of flue gas flow pattern and process parameter influencing on the removal efficiency of NO <sub>x</sub> and SO <sub>2</sub> . Evaluation of the electron accelerators <b>feasibility for the system.</b>	M18
Deliverable 9 UH; FEP	Dosimetry – analysis of the electron penetration and distribution in the process vessel by using Monte-Carlo simulations	M20
Deliverable 10 BIOPOLINEX	Economic analysis is concluded and results are provided to the Consortium	M22
Deliverable 11 INCT	Experimental results of process vessel flow conditions and testing of window protection system. Elaboration of the design assumptions for the industrial systems including relevant accelerator design conditions	M23
Deliverable 12 RTU	Project closing meeting is organized	M23-M24
Deliverable 13 RTU + all	Final report is compiled and made available to the relevant stakeholders	M24