Phases of a large-scale heat pump project showing the most important tasks with approximate duration in months

Initial assessment and preliminary planning (18–24 months)	Carrying out transformation study/drawing up heating strategy (if necessary with prior application for funding and call for tenders for services) incl. communication with local and other public authorities, stakeholders and the public).		
	Drawing up of planning concept, assessment of approvability, cost estimate and time schedule, participation in iKWK tendering process (alternative to BEW)		
Planning of design and approval procedure (approx. 6 months)	System and integration planning with economic feasibility analysis (after commissioning of project-/ specialist planning offices)	Coordination with heat source stakeholders	Compilation and submission of documentation for approval
Planning of project implementation (approx. 6 months)	Planning of implementation, inclu- ding specialist reports, calculation and design of technical systems and plant components	Alternative to iKWK: funding application to BEW for planning, investment and operation (before conclusion of supply or service contract)	Approval procedure (building permit or BImSchG)
Preparation of and involvement in the award process (4–12 months)	Listing of specification of services for investment and 0 & M		
	Award procedure (EU tender above € 5.38 million in 2023)		
	Commissioning		
Site/construction supervision (18–36 months)	Detailed planning and site/construction supervision up to operational start-up		

Fraunhofer IEG (2023) based on information on current and completed projects