INP Reference

Stadtwerke Stuttgart - Rosenstein Quartier

LOCATION: Stuttgart, Germany

SYSTEM/TECHNOLOGY: Regenerative industrial and municipal heating supply

SERVICES: Project management, Quality assurance, As-built status and data recording, Pre-project planning and tendering, Solution development / Feasibility studies

INDUSTRY BRANCH/TYPE OF PLANT: Green Energy, Infrastructure Projects

CLIENT: Stadtwerke Stuttgart GmbH

ACTIVITY PERIOD: 2023 - 2025

Project description

In January 2016, the Stuttgart City Council gave the go-ahead for the implementation of the energy transition in Stuttgart by adopting the energy concept „Urbanizing the energy transition in Stuttgart“. Energy master planning and the development and implementation of energy district concepts are of great importance for its realization. Climate-neutral energy supply solutions are to be developed for both existing and new districts.

As part of the „Stuttgart 21“ infrastructure project, the area around the main railway station in Stuttgart is being extensively redeveloped. With the „Rosenstein Quartier“, a mixed-use quarter with over 6,000 residential units, cultural facilities and commercial spaces is being created in several construction phases on an area of 85 hectares.

With the Rosenstein C1 feasibility study, an implementation concept is being developed that will enable the complete supply of all buildings with heating and domestic hot water from local renewable energy sources within the framework of the existing development plan.

INP is providing strategic advice to Stadtwerke Stuttgart with regard to tenders for planning services in order to implement further climate-neutral energy supply solutions.

POINTS OF CONTACT



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INP Services

- Industrial and municipal heating supply concept (local heating network)
- Definition of regenerative supply variants
  - Heat pump variants (air/water, water/water), different sizes and concepts (centralized/ decentralized)
  - Integration of different environmental heat, waste water, river water heat exchangers
  - Waste heat recovery
  - Near-surface geothermal energy

    - Ice storage, heat storage, etc.
- Determination of space requirements for generation plants, energy control center
- Draft of heating network route and energy system pipe routes for development planning/ preliminary development planning/building development planning
- Budget estimate and preparation of a financing plan for the implementation of the BEW module 1 feasibility study
- Requirements management feasibility study
- Application for funding according to BEW
- Communication with Federal Office for Economic Affairs and Export Control (BAFA) until receipt of the grant notification
- Preparation of specifications, invitation to tender, contract award support to find the planner for the BEW Rosensteinquartier feasibility study
- Project management for the BEW Rosensteinquartier feasibility study
- Technical advice on the renovation of a sewer, waste heat extraction from the sewer as a heat source for district heating supply
- Management consulting and technical support for tendering framework agreements for recurring planning services for heating projects/quarter projects of Stadtwerke Stuttgart