

## Small CHP in the Municipal Sector

**client:** Carbon Trust.

**client brief:** Assess the potential of small CHP (less than 25kW electrical) in the municipal sector, with detailed case studies of potential systems.

**our solution:** Detailed analysis of current CHP technologies and barriers to successful implementation. Techno-economic assessment of four case studies including site energy systems.

**description:** Under contract with the Carbon Trust, Element Energy coordinated four municipalities from around the UK who wished to test small CHP systems. Looking at both technical and non technical barriers to implementation, the study identified key areas of action required in order to improve the uptake of this promising technology, both technical and non-technical issues.

Phase 2 of the project comprised detailed technical analysis of four proposed systems, ranging from single office blocks and schools to large housing estates. Element Energy's experience of CHP demand-supply issues and site energy strategies enabled the design of optimum CHP systems for each application.

Communities studied in the report include the Berwickshire Housing Association, with whom we were engaged separately on a study of small hydrogen systems for standalone energy storage.