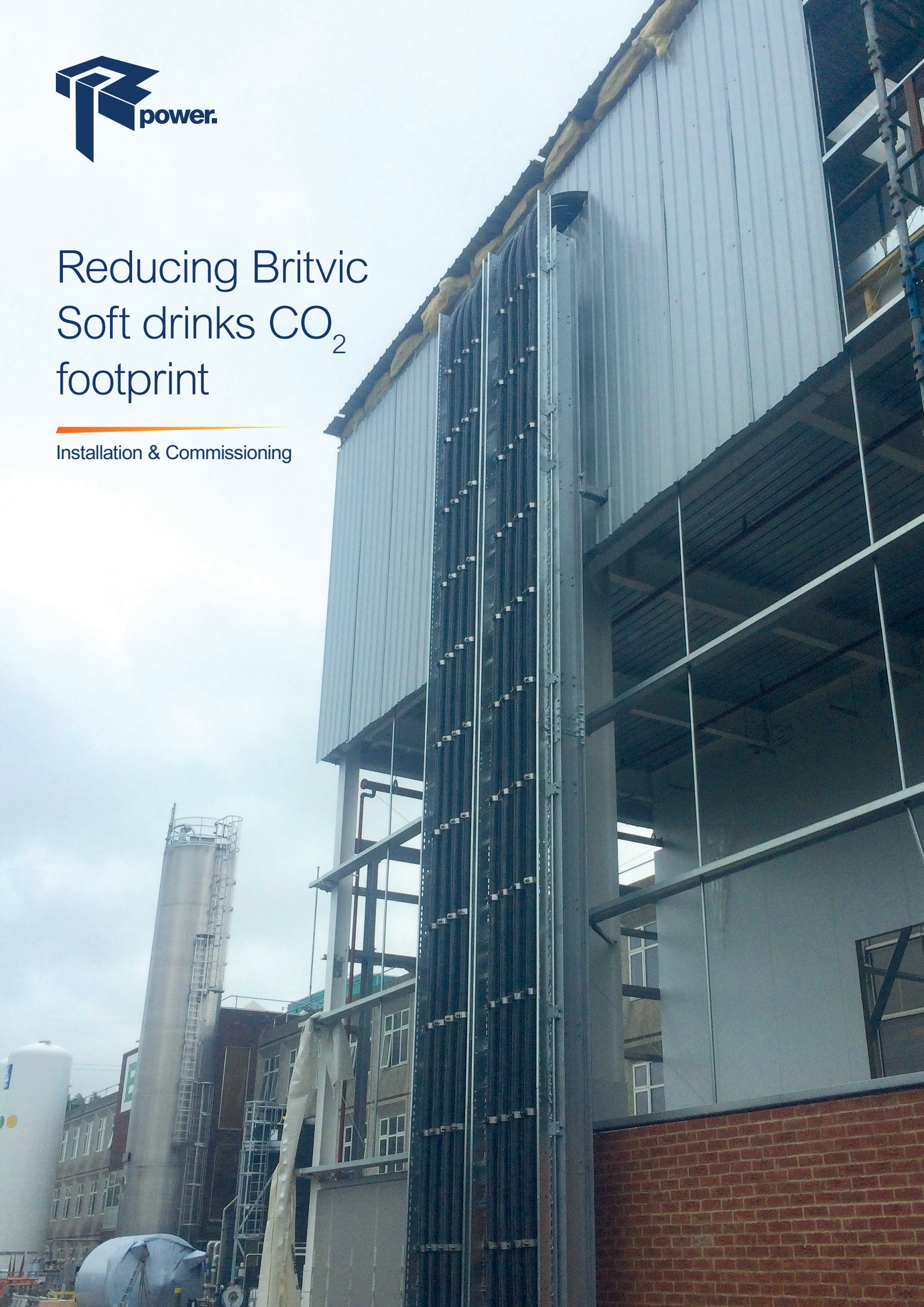




# Reducing Britvic Soft drinks CO<sub>2</sub> footprint

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Installation & Commissioning





# More power, less carbon

## Britvic Soft Drinks

**Client:** Britvic

**Location:** Chelmsford, Essex

**Project:** Reducing the CO<sub>2</sub> footprint and supply chain risk in the manufacturing sector

### Scope of Works

- Low voltage upgrade for efficiency and environmental efficiency.
- Substation design and construction.
- Extra protection for adjacent areas.
- Project management with a number of sub-contractors.
- Flexible, on-going planning and specification.
- Protection Grading Study.
- Traffic management.

### The Task

Power Testing Ltd was awarded a contract to upgrade the low voltage network that supplied Britvic's engineering workshop in Chelmsford, Essex. The project required replacing three existing transformers and building a new substation to house them. We also needed to relocate a fourth transformer.

One of the more unusual requirements was the specification and build of a blast wall for the substation to protect an adjacent glass-fronted building. Project managing several subcontractors, we delivered the project on time and within budget, earning us HV preferred supplier status with the client.

**Reducing our CO<sub>2</sub> footprint and reducing supply chain risk were the two main forces behind the decision to replace our HV transformers and associated LV & HV cables. Power Testing Ltd offered a full solution to the project including supply, installation, and commissioning as well as project planning and management including all civils works.**

**Power Testing showed great flexibility and understanding of our requirements to complete the project both on time and on budget without affecting business-as-usual at a particularly busy production period for us. As a result, Power Testing are now our preferred supplier for all major electrical replacement/upgrade work. We have also taken advantage of the comprehensive LV & HV maintenance programme to give us further reassurance and further reducing supply chain risk.**

### Project Achievements

- Flexible planning and development of a specification throughout the project in close consultation with all stakeholders.
- Replacement of three existing 1000 kVA transformers for new 1250kVA low loss models.
- Design and construction of a substation.
- Cable design and specification using a mathematical model.
- Tracing, excavation, removal and replacement of all cabling.
- Production of a discrimination study to ensure correct fuse/trip operation.
- Commissioning of all equipment and cabling.
- Energisation of new transformers.

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