

SCHEDULE AND DELAY ANALYSIS EXPERT SERVICES

Berkeley Research Group's (BRG) Global Construction practice comprises construction delay professionals around the world, including in Singapore, the Middle East, the Americas, and the United Kingdom, who specialize in performing complex forensic delay analysis methodologies. BRG's delay experts have authored numerous publications in the field of schedule delay analysis and sit on international committees for the development of schedule analysis protocols, including the Association for the Advancement of Cost Engineering International (AACE), the American Society of Civil Engineers (ASCE), and the Society for Construction Law (SCL).

Our team has a solid understanding and extensive expertise in delay analysis methodologies across various international protocols. Our experts have performed delay analysis on a range of complex projects around the world and have provided expert reports and testimony in a variety of international arbitration tribunals, including SIAC, ICC, ICSID, DIAC, IAC, KCAB, etc.

BRG's delay experts ascertain methodology selection based on the circumstances of the dispute, documentation available, and contractual requirements. Analysis methodologies implemented have included:

- Time impact analysis
- Time slice/windows analysis
- Collapsed as-built
- As-planned versus as-built
- Half-step analysis

BRG experts help clients understand what methodology is best suited to their requirements.

4D Scheduling

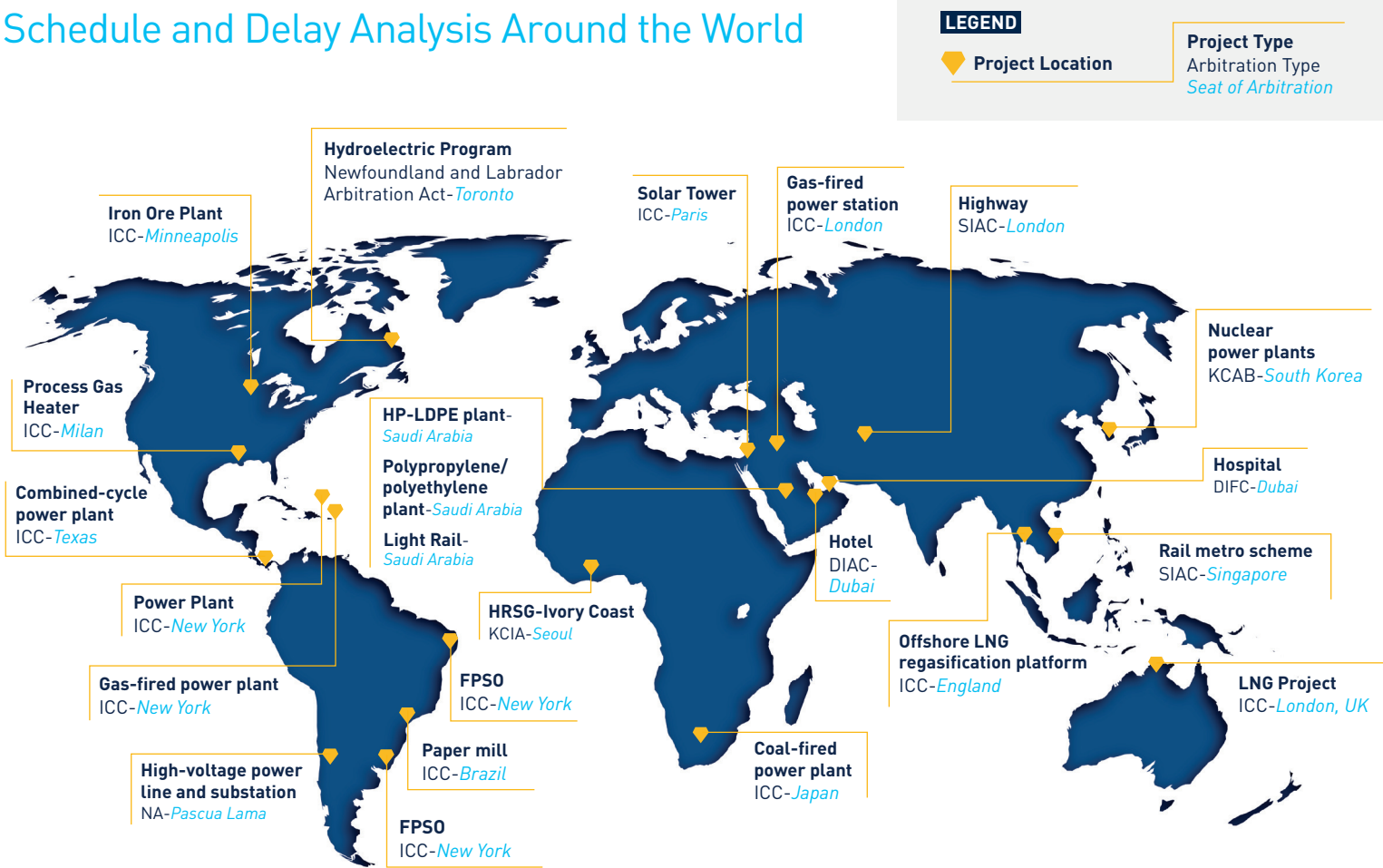
BRG's Global Construction practice offers clients 4D scheduling services, which takes a three-dimensional model of a construction project and essentially adds a fourth dimension: time. A 4D schedule leverages additional value from a project's 3D/Building Information Model (BIM) and critical path method (CPM) schedule by combining the two documents to create a powerful visualization and planning tool. BRG uses cutting-edge 4D scheduling software that links the BIM elements (such as columns, slabs, doors, and windows) to the appropriate CPM schedule activity. By linking the BIM elements and CPM schedule activities, BRG produces an animation of project construction over time as planned in the CPM schedule.

The cost to prepare a 4D schedule is nominal and represents a small fraction of the cost in preparing a project model. The added value supplied by a 4D schedule in international arbitration hearings is that the 4D model provides an effective way of graphically portraying the factors that caused delays and disruption on complex projects and schedules with thousands of activities that otherwise would be difficult to demonstrate using Gantt charts alone.

**SCHEDULE AND DELAY ANALYSIS AROUND
THE WORLD GRAPHIC ON THE NEXT PAGE**



Schedule and Delay Analysis Around the World



About BRG

Berkeley Research Group, LLC (BRG) is a global consulting firm that helps leading organisations advance in three key areas: disputes and investigations, corporate finance, and performance improvement and advisory. Headquartered in California with offices around the world, we are an integrated group of experts, industry leaders, academics, data scientists and professionals working beyond borders and disciplines. We harness our collective expertise to deliver the inspired insights and practical strategies our clients need to stay ahead of what's next.

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