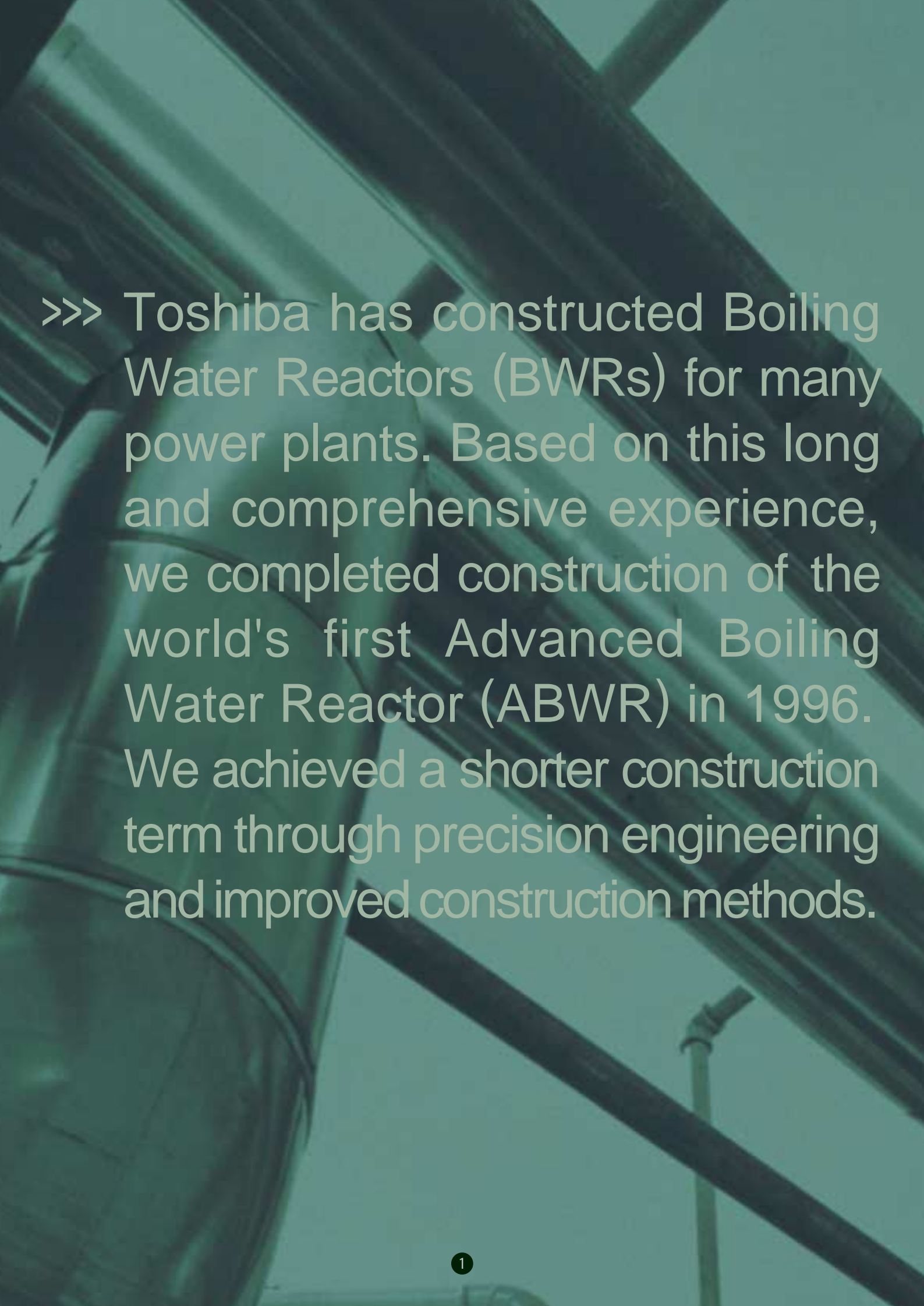


TOSHIBA

ABWR

CONSTRUCTION PLANNING AND METHODS
OF THE ABWR PLANT

Advanced Boiling Water Reactor



>>> Toshiba has constructed Boiling Water Reactors (BWRs) for many power plants. Based on this long and comprehensive experience, we completed construction of the world's first Advanced Boiling Water Reactor (ABWR) in 1996. We achieved a shorter construction term through precision engineering and improved construction methods.

>>> Aiming to shorten construction term

Toshiba ABWR Construction

■ ABWR Construction Features

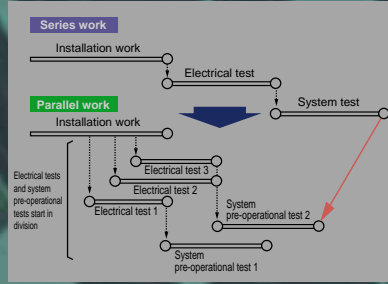
1

Expansion of Parallel Work

• Parallel building construction, equipment installation and electrical work



• Parallel equipment installation, electrical work and testing



2

Reduced field work

• Large-component method



• Expanded modularization



3

Improved field productivity

• All-weather construction method

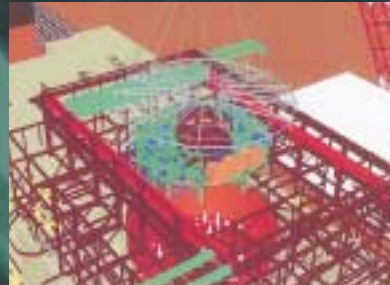


• Extensive use of automatic welding machinery

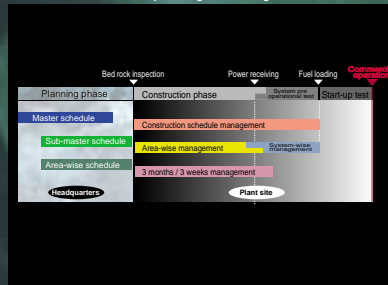


Total construction planning and management

• 3D Simulation of construction

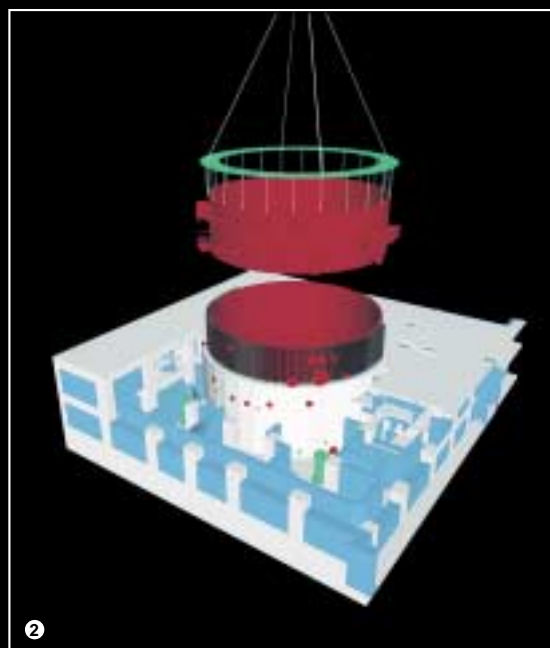


• Precision construction planning and management

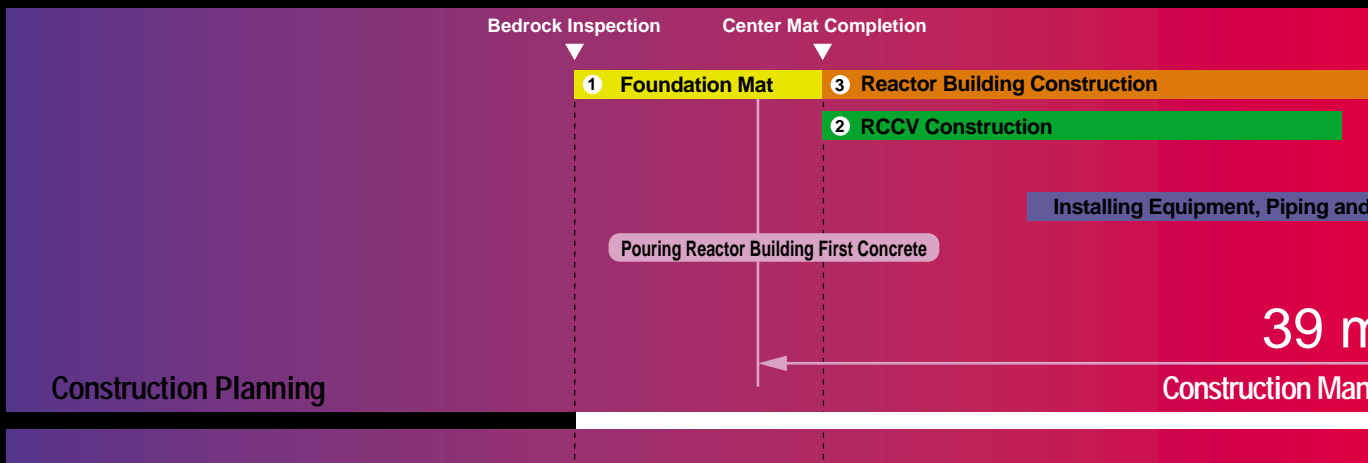


>>> Construction of ABWR Plant

Toshiba provides exceptional plant construction, including installation of the Reinforced Concrete Containment Vessel (RCCV), equipment, piping, electrical equipment and instrumentation. Pre-operation and start-up tests also help shorten the construction term through the concepts of Expansion of Parallel Work, Reduced Field Work, and Improved Field Productivity.



■ ABWR Construction Schedule



*39 Months : *Actual construction term of Kashiwazaki-Kariwa Nuclear Power Station Unit No.6 (1356MWe) of Tokyo Electric Power Co.

