



## Strategist

Multiple application modules  
incorporating all aspects of utility  
resource planning

# Multiple application modules incorporating all aspects of utility resource planning

**Strategist has been the industry standard for integrated resource planning for nearly 30 years.**

Users include municipalities, electric cooperatives, state commissions, consulting firms, and investor-owned utilities.

Strategist's multiple application modules include forecasted load modeling, energy efficiency programs, production cost calculations including the dispatch of energy resources, optimization of future decisions, and nonproduction-related cost recovery, such as construction expenditures, AFUDC, insurance, and property taxes.

## **PROVIEW Module**

Strategist's PROVIEW Module utilizes a proprietary dynamic programming algorithm to optimally select and rank alternative resource plans based on different objective functions including minimizing utility cost and average rates. Resource alternatives are evaluated while also considering purchases from and sales to a spot energy market.

PROVIEW can evaluate all types of supply and demand side alternatives:

**Supply-side Alternatives** – new hydro, energy storage, fossil, nuclear and renewable resources (wind, solar, biomass, geothermal, etc.); multiple types of power contracts; and transmission interface enhancements. In addition, refurbishment, repowerment, mothballing, and/or retirement of both existing and newly added resources can be modeled.

**Demand-side Resources** – energy efficiency, load control, and demand response resources can be represented. Examples include traditional demand-side resources, such as direct load control and efficient appliance rebates, as well as time-of-use rates and real-time pricing programs.

## **Differential Cost Effectiveness**

### **(DCE) Module**

The Strategist DCE Module calculates the benefit-cost (B/C) ratios for each supply and demand alternative against a base resource plan. The use of a base resource plan allows the DCE Module to identify the yearly marginal capacity and energy savings for each alternative. PROVIEW and the DCE Module use the same database to define the operational characteristics and costs of supply and demand alternatives, so that cost effective options can be directly incorporated into a full optimization analysis.

## **Capital Expenditure and Recovery**

### **(CER) Module**

The Strategist CER Module provides detailed capital project modeling that is critical to accurately evaluating the economics of resource alternatives that require capital outlay. The CER can be used to model the entire capital budget of a utility company or just the incremental capital projects associated with resource alternatives under evaluation using PROVIEW. Results from the CER Module are automatically transferred to PROVIEW, which optimizes production costs along with incremental capital investment.

## **Key Strategist Benefits:**

- Dynamic Programming Algorithm generates and evaluates all appropriate resource plans
- Evaluates the economics of resource alternatives that require capital outlay
- Analyzes long-range rate strategy and its implications
- Provides Multi-area resource optimization
- Minimizes scope by reducing the need for external systems and spreadsheets
- Ensures data integrity through sound data integration
- Assesses effects of market volatility on resource plans using Monte Carlo analysis

## About ABB

ABB provides industry leading software and deep domain expertise to help the world's most asset intensive industries such as energy, utilities and mining solve their biggest challenges, from plant level, to regional network scale, to global fleet-wide operations.

Our enterprise software portfolio offers an unparalleled range of solutions for asset performance management, operations and workforce management, network control and energy portfolio management to help customers reach new levels of efficiency, reliability, safety and sustainability. We are constantly researching and incorporating the latest technology innovations in areas such as mobility, analytics and cloud computing.

We provide unmatched capabilities to integrate information technologies (IT) and operational technologies (OT) to provide complete solutions to our customers' business problems.

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