

# AxCYCLE™ Economics

Introducing AxCYCLE™ Economics, a new way to assess the financial viability of your power plant system configuration from an economic perspective. Featuring full integration with the AxCYCLE™ platform, AxCYCLE™ Economics provides the most complete, accurate and flexible presentation of factors critical to the commercial success of a power plant found anywhere.

AxCYCLE™ Economics houses an internal library of models for main power plant equipment providing the capability to perform simulations of cash flow scenarios, operating lifecycle assessments, and economic measures analysis with minimal input. The opportunity for user-defined data provides the flexibility needed to handle specific equipment cost estimation challenges unique to the user.

Total Capital Investment estimations are critical data points needed for accurate investment decision making. AxCYCLE™ Economics users are able to compare capital costs for several alternative projects with different sets of equipment, and consider different power generation technologies from a capital cost (\$) or specific capital cost (\$/kW) points of view. Civil/structural costs, mechanical equipment supply and installation, electrical instrumentation and controls, indirect costs, emissions costs and owner's costs are all able to be considered by this flexible system.



- Purchased equipment cost calculation
- Embedded and user-defined data and models"
- Flexible factorial total cost investment assessment
- Cash flow analysis
- Economic analysis of power generating unit throughout lifecycle
- Economic measures calculation (NPV, LCOE, PB)
- Drawing of financial charts
- Means of comparison of economic indexes for different power plant projects

## Why AxCYCLE™ Economics?

A power plant is a very capital-intensive facility with a long life cycle. With this in mind, it is critical before any money is invested to assess the financial operating conditions under a diverse set of specific conditions. AxCYCLE™ Economics offers the user the ability to make these critical insights quickly and easily, leading to more efficient and effective capital investment decisions.

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## New Facilities

AxCYCLE™ Economics provides sophisticated economic analysis options for its users during the feasibility study phase. The capability for capital cost estimation, flexibility in selection of power generation technology, fuel type selection, and comparison of different scenarios allows the AxCYCLE™ Economics user to accurately project economic feasibility across the lifecycle of the power plant and across a range of projects.

- Capital cost estimation
- Selection of power generation technology & process scheme
- Fuel type selection
- Comparison of different scenarios
- Economic analysis throughout lifecycle.
- Estimation and analysis of projects for power plant retrofits and upgrades

## Existing Facilities

Already established power plant facilities will benefit from AxCYCLE™ Economics with its ability to project financial scenarios across the remaining life of the plant, providing valuable insight of the future, today. Capital cost estimation of economic enlargement possibilities or renovation scenarios allows for a much more accurate and informed decision making process.

- Capital cost estimation of renovation scenarios
- Economic assessment of power plant enlargement
- Financial impact of new equipment on current cycle
- Remaining lifecycle analysis

