

Merak Capital Planning

Achieve desired portfolio value and attain business goals

APPLICATIONS

- Optimization of oil and gas business and investment choices

BENEFITS

- Generate optimal portfolios and evaluate options using multiple optimization techniques
- Streamline the business planning process
- Assess and understand uncertainties before making critical investment decisions
- Design an optimal business strategy

FEATURES

- Rigorous optimization routines based on user-defined criteria or business rules
- Deterministic and stochastic portfolio evaluation methods
- User-defined portfolio roll-up criteria
- Presentation-ready charting and graphing capabilities
- Visualization to enable rapid screening of various investment options

The portfolio management approach provided by Merak* Capital Planning enables investment choices to be continually aligned with corporate goals. Growing reserves and corporate value in conjunction with optimizing operational activities becomes part of the entire planning processes. This allows an optimal combination of investment options — a portfolio that assures a high level of confidence in delivering those goals — while at the same time efficiently balancing value and risk. Whether for an independent, a major, or a national oil company, Merak Capital Planning provides the assurance that each investment decision is aligned with the company’s corporate strategy.

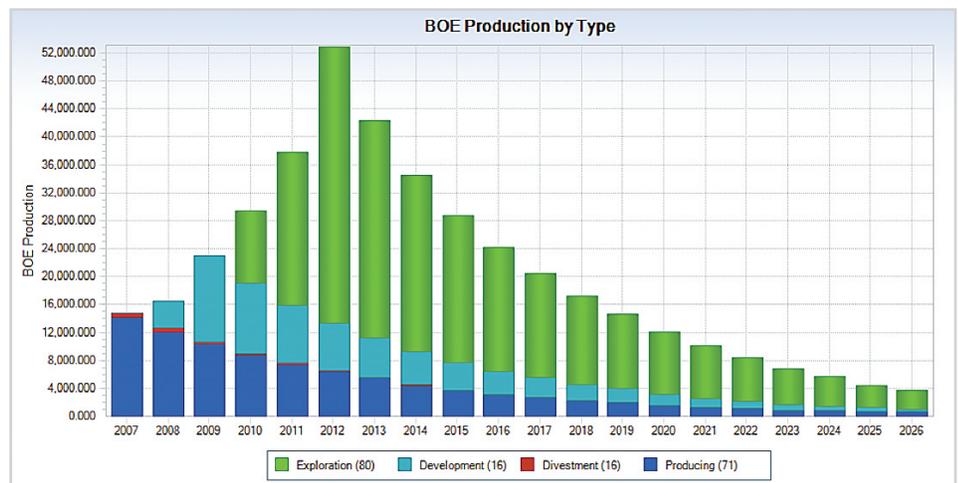
Roll up and evaluate your investment prospects

Oil and gas companies must be able to make decisions based on vast numbers of possible investment opportunities. Understanding the value of existing portfolios in terms of goals and business constraints is the starting point for considering the impact of new investment opportunities. Data taken from multiple sources, such as Merak Peep and Microsoft Excel, are used to generate new options, which may consider a variety of investments in acquisition; exploration; or other upstream, midstream, or downstream activities.

Generating alternative scenarios that honor constraints, meet value goals, and are within an acceptable risk window allows comparison of multiple portfolio strategies. Merak Capital Planning enables companies to effectively examine their joint-venture funding options or the impact of changes to the fiscal regime on national aspirations. It also allows international, national, major, and independent oil and gas companies to seamlessly compare aggressive international portfolio growth scenarios with those that are more conservative. This can be done for one or more assets at any operational scale.

Optimize planning for diverse asset mixes

Once the business goals and rules have been set and an initial review of the portfolio options has been completed, projects that meet the required criteria are used to create portfolios for further analysis. Oil and gas companies can benefit greatly from the Merak Capital Planning optimizers when evaluating portfolio options for both long- and short-term goals. The linear program solver identifies a portfolio’s “efficient frontier” to ascertain the highest level of return for a given maximum risk tolerance. The genetic algorithm optimizer performs complex calculations to determine which projects work best to balance short-term performance objectives with long-term corporate goals.



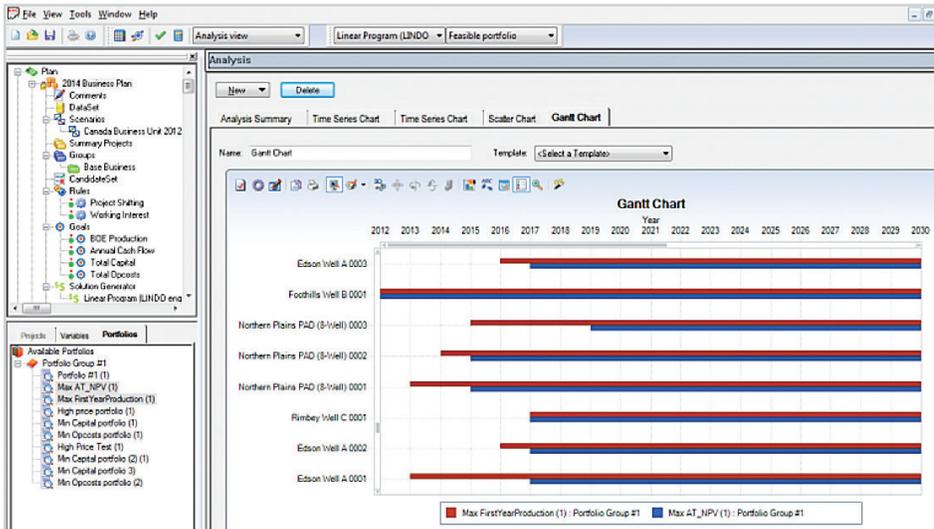
Graphical look at production forecasts.

Merak Capital Planning

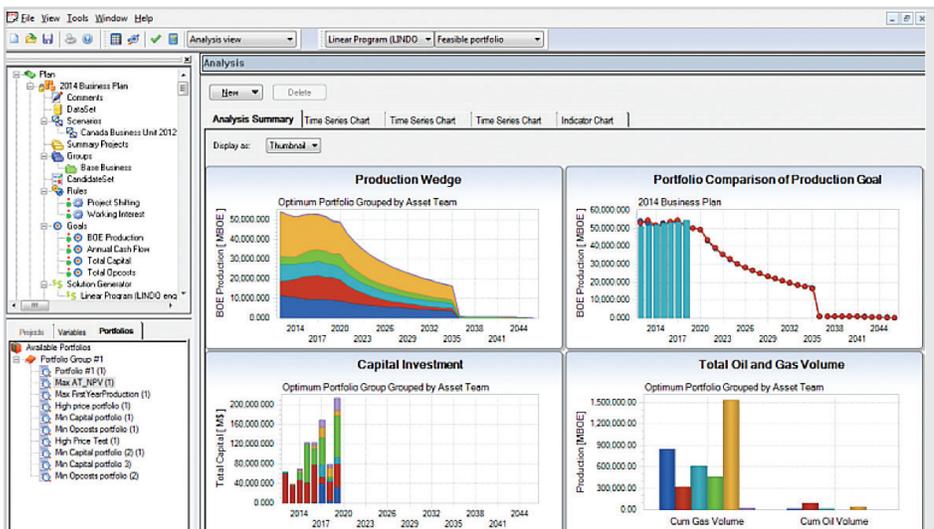
Make better decisions in uncertain market conditions

The Merak Capital Planning solution provides a single environment where you can go to analyze and reassess decisions as conditions change. The environment lets you take account of all dimensions of your business—operational, technical, and economic. This enables you to address risk and uncertainty and to react to changes in oil and gas prices, geopolitical opportunities, and changing governmental regulations.

The graphical analysis tools available in Merak Capital Planning provide the ability to roll up your evaluation, visualize the results, and examine multiple scenarios. This enables fast insight into the effects of subtle changes in the project mix on the portfolio's value or risk dimensions. The fine-tuning process of portfolio management enables previous corporate experience to be combined with the pure economic data to generate the solution that works best for the organization.



Flexible visualization capabilities for assessing the impact of project scheduling.



Visualization of portfolio performance.

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