



POWER & UTILITIES



RETAIL ENERGY/SERVICES



WIND, SOLAR, BIOFUELS



OIL & GAS



COAL



ENVIRONMENT/EMISSIONS



WEATHER



GAS TRANSPORTATION



FINANCIAL SERVICES



Abacus Solutions Inc  
650.941.1728  
[www.abacussolutionsinc.com](http://www.abacussolutionsinc.com)



MARKET ANALYSIS



- Power, Fuels, EAs, Weather, Load, IR, FX
- Power Transmission, Fuel Transportation
- Price Simulation & Forecasting, Spot & Forward
- Spread and Basis Analysis & Management
- Volatility, MRR, Uncertainty, Correlations
- GBM, MR, AR, JD, Indexed, Hybrid, PCA

GENERATION MANAGEMENT



- Thermal, Storage, Renewable
- Resource Planning, Asset Valuation, Bidding
- Operations and Maintenance Planning
- Margin Forecasting, Capacity Expansion
- Fuel Management, Environmental Analysis
- Unit Commitment (Load, Market, Hybrid)

TRADING MANAGEMENT



- Power, Fuels, EAs, Gas Storage, Weather, IR, FX
- Insurance, Credit, Transmission, Transportation
- Future/Forward, Call/Put, Swap, Spread, Other
- Front/Mid/Back Office, Reporting
- MTM, Greeks, VAR, Hedging, Positions
- Limits, Confirmation, Settlement, Schedule

FINANCIAL MANAGEMENT



- Financial Analysis, Forecasting, & Reporting
- Budget & Actual Variance Analysis & Management
- Income Statement, Balance Sheet, KPI, P&L
- Targets, Budgets, Tax, Depreciation, Dividend
- Margin, Net Income, EBIT, EPS, ROI, ROE
- Cash Flow (FFO, FCF, Net Cash, Other)

REGULATORY COMPLIANCE



- Broad Regulatory Compliance Support
- Data Management, Extraction, and Processing
- Trading, Hedging, Prudence, and Investment
- Legacy and Emerging Requirements
- US (Federal & State) & Europe
- Dodd Frank, CFTC, DOJ, NERC, FERC, SEC, PUC

BUSINESS INTELLIGENCE



- Markets, Generation, Outages, Loads, Financials
- Calibration (Price, Volatility, MRR, Correlations)
- Production Analysis and Relationships
- Outage Rates (EFOR/FOR) and Durations
- Load-Weather Relationships, Trends, and Profiles
- Financial Metrics Analysis & Targets Management

RETAIL MANAGEMENT



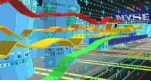
- Retail Energy (Electric, Gas) and Services
- Revenue, Cost, P&L Forecasting & Reporting
- Risk Analysis and Hedge Management
- Product Structuring, Costing, and Pricing
- Load, Migration and Competitor Analysis
- Customer Type Classification and Aggregation

CREDIT MANAGEMENT



- Rating Agencies, Credit Ratings and Outlooks
- Contract, Counterparty, & Collateral Management
- Policy, Credit, Limits, Exceptions, Margins
- Document Management and Workflows
- A/R & A/P, Current & Potential Future Exposure
- POD & LGD, Rating Transition & Correlation

RISK MANAGEMENT



- Enterprise Risk (Market, Credit, Operative)
- Regulatory Compliance & Corporate Governance
- Cash Flow, Credit, and Earnings At Risk
- VAR, MTM, Position Management
- Risk Tolerance, Capital Allocation & Adequacy
- Financial Engineering and Simulation Metrics

PORTFOLIO MANAGEMENT



- Hedging Strategies Identification and Ranking
- Efficient Frontier Portfolio Optimization
- Trading, Regulatory Support, Corporate Planning
- Decision Support and Tradeoff Analysis
- Sensitivity/Scenario Analysis & Stress Testing
- Configurable Metrics (Risks, Returns, Limits)



RAPID DEPLOYMENT



- Rapid Implementation and Customization
- Software As A Service (SaaS), Cloud Computing
- Internal, External, and Third Party Hosting
- Dedicated or Shared Hardware (Physical/Virtual)
- Non-Disruptive Maintenance and Upgrades
- Remote Support and Maintenance

MODULAR ARCHITECTURE



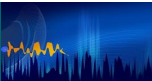
- Single Application or Multiple Applications
- Limited or Full/Unlimited Functionality
- Single/Multiple Users, Licenses, or Commodities
- Structural Integrity Across All Applications
- Easy Linkage with Other/External Applications
- Shared or Dedicated Service

ACCESS ANYTIME ANYWHERE



- Secure Web Based Access (Tablets, Phones)
- Instant Messaging, Email Notification
- Authentication, Authorization
- Data Integrity, Data Management
- Standard Web Interface and Navigation
- Automated Configurable Real-Time Notifications

UNPARALLELED PERFORMANCE



- Fast Data Management, Simulation, Reporting
- Multi-Core, N-Tier 64-bit SOA Architecture
- Optimized Grid Computing & Parallel Processing
- Efficient Data Storage and Retrieval
- Optimized Use of Hardware
- Efficient Allocation of Resources and Prioritization

ADVANCED ANALYTICS



- Optimized Generation Management
- Multivariate Forward/Spot Stochastic Simulation
- Principal Components Analysis
- Simulation-Based Valuation and Risk Management
- On-Demand Hedging Management
- Efficient Frontier Portfolio Management

EASY TO USE WEB INTERFACE



- Intuitive Web Based Interface
- Configurable Display, Templates, Bookmarks
- On-Screen Help, Data Validation, Help, & FAQs
- Easy Customization and Personalization
- Intuitive Navigation, Easy Access
- Easy Imports/Exports, Easy Uploads/Downloads

SEAMLESS INTEGRATION



- Markets, Generation, Trades, Loads, Weather
- Fully Integrated Short, Mid, and Long Terms
- Integrated Records, Budgets, and Forecasts
- Seamless Integration Across Commodities
- Generation, Trading, Retail Management
- Easy Integration with Other/External Systems

ON-DEMAND REPORTING



- Configurable Reporting and Presentation
- Defaults Setup and Personalization
- Extensive Filtering, Aggregation, & Drill-Downs
- Flexible Granularities, Multiple Statistics
- Datagrids, Charts, PDFs, Dashboards, Bookmarks
- Integration with MS Office (PowerPoint, EXCEL)

UNLIMITED SCALABILITY



- On-Demand Multi-Dimensional Scalability
- Non-Disruptive Expansion and Upgrades
- Seamless Integration of Added Applications
- Efficient Hardware Scalability
- Vertical and Horizontal Scalability
- Near-Linear Size and Simulation Scalability

ENTERPRISE SERVICES



- Document Management and Archiving
- Configurable Email Notifications
- Scheduled Configurable News Feeds
- Changes Track Records and Auditing
- Usage Tracking and Analysis
- User Forum and Document/Knowledge Sharing







# BENEFITS

# SATURN

# TESTIMONIALS



	<p>SATURN enables enterprise risk management with an unprecedented mix of analytics, ease, and speed.</p> <p><i>Steven N. Oster, Director, Quantitative Analysis</i></p>
	<p>SATURN has performed 20 times faster than our tools. It is an easy-to-use next generation system.</p> <p><i>Richard Cook, Generation Planning Manager</i></p>
	<p>... broad and deep functionality ... emphasis on integration and data mining ... somewhat unique.</p> <p><i>Gary M. Vasey, Ph.D., Vice President, Europe</i></p>
	<p>... offers layer upon layer of sophisticated portfolio management functionality we've not yet seen.</p> <p><i>John Sodergreen, Editor-in-Chief</i></p>



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