HOW TO BUILD A BUSINESS CASE FOR FORECASTING AND ANALYSIS SOFTWARE
Any time an organization needs to make changes, start a new project or implement new technologies, the first step in the process is to build a business case. This usually means getting executive buy-in, so it’s important for key stakeholders to understand the rationale, the advantages and challenges, and the overall cost.

Implementation of power market forecasting software is no different. While the benefits of a powerful, flexible and fast system may be obvious to an analyst, it may be less apparent to a CFO, CEO or other members of senior management. They will have important questions that need to be considered and answered using a business case.

This eBook provides tips for building a solid business case that will help decision makers understand how implementing the right power forecasting software will make a positive impact on the organization.
CREATE THE BUSINESS CASE

While there isn’t one definitive template for business cases, they all have common elements. Add elements like graphs, charts and illustrations to make the business case visually appealing.

EXECUTIVE SUMMARY

This one-page section briefly outlines the complete business case. Having a strong executive summary is key because many executives will read this section and skim or skip the other sections.

GOALS OF THE ORGANIZATION

It’s a best practice to create a section that reminds decision makers of the mission and overall goals of the organization. This sets the stage for later detail regarding how forecasting software will help the organization reach these goals. This section may be hard to quantify, but if you align the project with the business objectives, it can be more meaningful than simply stating operational efficiencies and hard numbers.

IDENTIFY THE PROBLEM

Most stakeholders are averse to any change or expenditure that doesn’t improve the organization or fix a specific problem. Outline the issues and remember to be completely honest. This is not a time to minimize issues that highlight problems. Simply be respectful of the previous efforts and people who have been involved while making your case for change.

This is your opportunity to show that the department is forward-thinking and preparing for the future. Quantify current costs for forecasting and analysis. How many employee hours are used? What outside costs, including consultants, are incurred? Make sure to recognize shadow systems like spreadsheets and databases, as well as time spent on emails and conference calls. If you are currently using a solution and want to make a change, discuss customer service issues and time spent waiting for results.

IDENTIFY A POSSIBLE SOLUTION

Remember that a business case is about due diligence. Once your team has gathered information, make a recommendation. Elaborate on how the research was done, and discuss how deploying the right power market forecasting software will address the specific goals of the organization and solve current challenges. Include the criteria or capabilities that are needed to fit your organization’s needs.

COST/BENEFIT ANALYSIS

This kind of analysis compares the monetary benefits and costs of the project.

Ask the question: “How much will power market forecasting software cost?” Calculate not only the hard costs, but also the time needed to implement the solution. Then determine the costs accrued if nothing is done – estimating all of the costs that are invisible in your day-to-day work life: time spent formatting and loading data, time lost waiting for reports or output, lost opportunity costs... anything that could be replaced or lessened by the right power market forecasting software. While some benefits may be difficult to quantify, be sure to identify the those opportunities as well: increased shareholder returns from better forecasting, better calibrated results; improved strategic planning, etc.
COST BENEFIT ANALYSIS WORKSHEET

Begin by identifying items in your cost categories.

**DIRECT COSTS**
The costs associated with producing the models, such as labor, materials, training, hardware, software, maintenance, upgrades and vendor support.

**INDIRECT COSTS**
The costs that are often fixed, such as department overhead (managers and administrative staff), quality control, IT support and depreciation.

**INTANGIBLE COSTS**
These costs may be more difficult to quantify, such as productivity loss, down time, lost opportunities, errors or miscalculations, rework, damages to customers and inefficient workflows. This may also include the cost of recruiting new talent and developing career paths. It can also include the work around regulatory filings.

Next, quantify the benefits.

**INCREASED PRODUCTIVITY**
- Common, formatted datasets
- Integrated model
- More efficient workflow
- Less down time

**HIGHER QUALITY**
- More accurate forecasts
- Auditable models
- Automated processes
- Supported by a global, real-world technical team

**GLOBAL COMMUNITY**
- Thousands of users
- Find experienced, trained talent
- Develop career pathways

**DECREASED FIXED COSTS**
- Calibrated, tested datasets
- Hosted infrastructure
- Integrated visualization
- One platform for electricity, water and gas (co-optimization)

**GREATER INSIGHTS**
- Time spent on evaluating insights versus running models
- Identify more advantageous opportunities
- Run models more frequently
- Run simulations down to the second

CREATE YOUR CALCULATION WORKSHEET

Finally, compare the aggregate costs and benefits and project the time frame for the benefits to repay the costs.

When including this in your business case, a line graph showing the cost projections against the benefits calculations will help visualize the point where you’ll start to earn a return on investment.

COST-BENEFIT ANALYSIS

![Cost-Benefit Analysis Graph]

$10k
$8k
$6k
$4k
$2k
$0

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

- Project Cost
- Project Value
ADDRESS POSSIBLE ROADBLOCKS
If you know that there will be specific questions or issues that slow the approval process, create a separate section to identify and address them. Possible roadblocks include interoperability, deployment time, training, customer service and migration issues.

COMPATIBILITY/INTEROPERABILITY
Outline the specific legacy systems that are currently used in the forecasting and analysis process and then note how the right software solution will interact with them. When your team looks at possible solutions, make sure to have a list of the existing systems that your organization uses, so the vendor can help give specific information.

DEPLOYMENT/MIGRATION ISSUES
Work closely with team members and possible vendors to identify and outline what the process will be for the migration to the recommended forecasting and analysis software. Talk to existing users of the solution so you can gain an understanding of their migration process.

MAKING THE PRESENTATION
When the background work is done, the business case is written, and the visuals are inserted, it’s time to present your work. Stay focused on the ROI. Highlight the work that team members did to prepare the business case. Be ready to answer any questions that come up – and this means practice.

Remember that your team has the domain expertise on forecasting and analysis for your organization. If you come to the discussion ready and enthusiastic, you have a great chance of success.

Have an abbreviated version of your presentation ready in case time is short.
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