

MACDONALD-MILLER FACILITY SOLUTIONS

MacDonald-Miller Facility Solutions is a predominant mechanical contractor specializing in innovative energy management and HVAC solutions, primarily operating in the Pacific Northwest. They focus on optimizing various facets of business operations, including energy management, system optimization, and HVAC maintenance, to ensure optimal project performance.



Client:
MacDonald-Miller
Facility Solutions

Industry:
Mechanical Contracting
& Energy Management

Challenges

MacDonald-Miller was grappling with the need for enhanced, data-driven decision-making tools to optimize their operations further. They were in pursuit of a Power BI expert to develop customized dashboard and analytics solutions, leveraging Microsoft's Power BI and Azure data services, which could afford them more profound insights into their operational realms.

Objectives

MacDonald-Miller aimed to:

- Develop tailored analytics solutions for optimized decision-making in areas like energy management and HVAC maintenance.
- Achieve enhanced operational efficiency and customer satisfaction by utilizing insightful, data-driven dashboards.

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As a renowned Power BI Consultant and Developer, we collaborated closely with MacDonald-Miller's team to cater analytics solutions tailored to their distinctive needs.

Here's a glimpse into our approach and solutions:

- **Customized Data Configuration & Modeling:** Employed Query and its 'M' formula language for data intake configuration.
- **Developed sophisticated data models and utilized Data Analysis Expressions (DAX)** for intricate calculations, leveraging advanced SQL skills for insightful data extraction, analytics, and reporting.
- **Azure Data Services Integration:** Integrated Azure Data Factory and Azure SQL Database to develop compelling dashboards, providing actionable insights into MacDonald-Miller's operations.
- **Tailored Analytics Solutions:** Created visually insightful dashboards focusing on energy management, system optimization, and HVAC maintenance, aiding in the enhancement of overall project efficiency and performance.
- **Empowerment & Training:** Conducted workshops and provided continuous support to ensure the MacDonald-Miller team could leverage the full potential of the implemented solutions for insightful interpretations and optimal decision-making.

Results

Our collaboration with MacDonald-Miller yielded the following remarkable outcomes:

- **Viability Amplification:** Enhanced operational viability by **50%**
- **Operational Efficiency:** Achieved a **30% increase** in operational efficiency through optimized decision-making processes.
- **Critical Faults Mitigation:** Reduced the incidence of critical faults by **20%**, bolstering operational robustness.
- **Customer Satisfaction:** Achieved a **35% improvement** in customer satisfaction through streamlined and optimized operations.

Conclusion

Our partnership with MacDonald-Miller Facility Solutions epitomizes the transformative power of tailored, data-driven solutions in optimizing operational efficiency and customer satisfaction. Through meticulous integration of Power BI and Azure data services, we delivered custom analytics solutions, enabling MacDonald-Miller to gain deeper insights into their operations and make more informed decisions. The significant enhancements in operational viability, efficiency, and customer satisfaction underscore the pivotal role of advanced analytics in driving business excellence, positioning MacDonald-Miller for sustained success in their industry endeavors.