



General Dynamics C4 Systems Facility Energy Efficiency Assessment

THE PROBLEM It is often challenging to measure results of energy efficiency upgrades and behavior modification programs, especially in complex building systems. From 1991 to 2013, the facilities management team at General Dynamics C4 Systems in Scottsdale, AZ has consistently maintained and improved its 1.5million square foot campus. These efforts culminated in an impressive list of built systems energy efficiency improvements and LEED Operation and Maintenance certifications for both the Hayden and Roosevelt buildings in 2009. Due to the complexity of the facilities and combined billing, General Dynamics C4 Systems facilities management was unable to understand the impact of their efforts. General Dynamics C4 Systems continues to recognize the importance of improving the built environment and commissioned this report to help inform facilities managers in other General Dynamics locations and to solicit recommendations for further improvements.

THE PARTNER General Dynamics C4 Systems, a leading integrator of secure communication and information systems and technology

THE SERVICE Assess, document and communicate energy efficiency upgrades and program results from their Scottsdale Campus for the purpose of communicating and sharing best practices to other General Dynamics facilities managers

THE SOLUTION Walton's Global Sustainability Solutions Services partnered with Green Light Solutions, an ASU-based student-led sustainability solutions services organization, in the development of a report to communicate a chronological story of energy efficiency upgrades, programs and the results of those efforts, and to further provide future recommendations.

In order to create the most effective communication tool, ASU delivered the following components:

- Energy efficiency upgrade and program timeline
- Data Analysis to correlate with timeline
- Recommendations for future improvements including behavioral and technological solutions

THE OUTLOOK General Dynamics C4 Systems facilities management now understands and is able to communicate and share the results of energy efficiency upgrades and programs developed over a twenty-two year period. As a leader in sustainability initiatives, this facility is now able to tell its story and make the business case to other General Dynamics facilities.

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