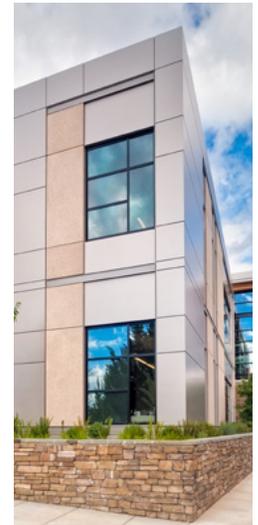
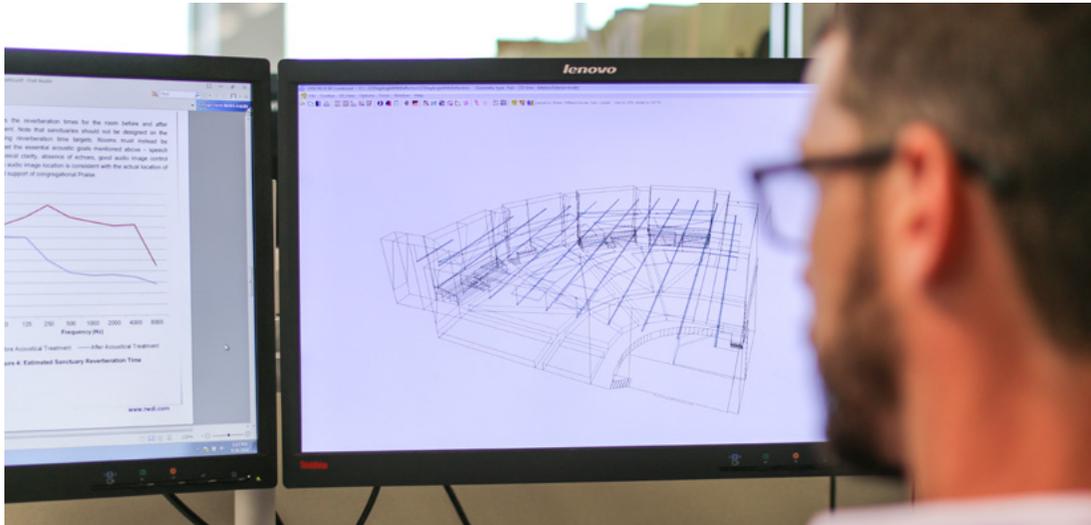


SUSTAINABILITY: PERFORMANCE MEASUREMENT & REPORTING



Optimizing delivered performance through correct selection of metrics and efficient data management and reporting



Performance ratings are becoming a critical feature of real estate development. This change is driven by several factors: performance-based contracts, public-private partnerships (P3) and the emergence of real estate as the fourth major asset class.

Facility owners and managers use performance ratings as decision making tools and as critical market differentiators for real estate assets. Performance reporting may also be a legislative or contractual requirement.

For performance reporting to be effective, however, many interrelated contributing

[Redefining possible.](#)

factors must be interpreted correctly. In addition, effective data management strategies are critical; without them, operational intelligence is compromised and the reporting process can be full of headaches and delays.

Our service

We deliver the numbers and insights you need to meet your performance targets—and stay there. First, we work with you to develop a strategy that will produce meaningful performance data in an efficient manner. Next, we carry out this strategy for you and provide results you can use immediately. Our engagements range from one-time assessments to development of custom analytical software to ongoing monitoring and reporting.

In designing and delivering performance reporting, we leverage years of practical, in-the-field experience with hundreds of new construction and existing building projects, as well as experience with a variety of technology platforms and reporting frameworks. We'll harness your data output to provide user-friendly decision support, insight on operational trends, streamlined reporting and optimized building automation.

For high-performance assets, moving from predicted to actual performance requires deep experience in a complex range of

topics. For this reason, we recommend an integrated services approach focused on ensuring “delivered performance.” We have an exceptional understanding of key drivers of delivered performance that others might miss, or underappreciate. These include climate patterns, local microclimate, air infiltration, stack effect (temperature differences), thermal comfort, building automation and management and analysis of “big data.”

Our integrated service offering includes design and construction consulting (including planning for certification if desired), energy and water modeling, daylight modeling, and support for commissioning. Performance measurement and reporting are most effective as the capstone of this integrated approach.

RWDI is a valuable partner to clients seeking to...

Explore Innovations

- Leverage large-scale data from a building or portfolio of buildings
- Benefit from the full potential of sophisticated building automation

Create Opportunities

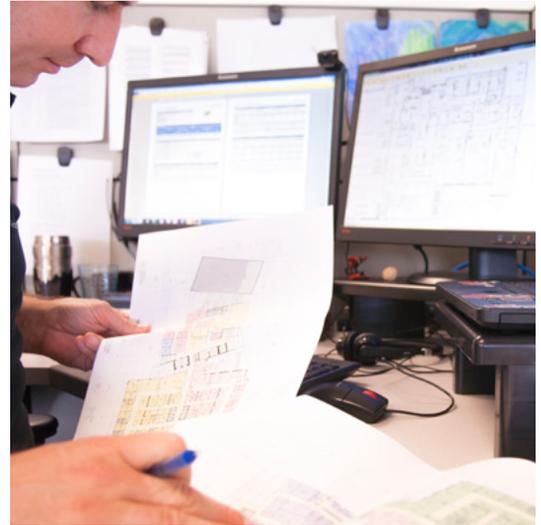
- Use analytics to find, assess and drive solutions
- Invest in continuous improvement
- Maintain optimal operational performance

Meet Challenges

- Correct deficiencies based on actionable intelligence

Fulfill Expectations

- Meet contractual project obligations (guarantees, performance bonds)
- Meet legislated requirements for real estate assets



How we work

The ultimate performance of a project depends, of course, on the goals defined in the initial phases. However, early design should also include decisions about how success will be monitored over the life of the building. Appropriate ongoing data collection is necessary to maintain operational performance.

We help you decide what data will show whether your built assets are meeting your goals. Then we can gather and aggregate those data for you, analyze them and present them in easy-to-use formats. Among the metrics we measure, query and verify are CO₂ emissions, energy and water use, waste management, comfort, wellness, productivity, air quality and water quality. If needed, we develop custom interfaces to extract key metrics and trends from your data streams. If desired, we can install these tools for your ongoing use.

Our methods for aggregating the data allow us to run analyses that provide insight into performance trends. For example, we can monitor weather and climate, occupancy, and interior conditions and assess whether a building is responding appropriately to the ambient environment; these analyses can identify outlier values. Attention to these outliers—through operational adjustments or other modifications—can help improve future performance.

Such analyses can be helpful at any phase in the life of a building: new construction; major renovation, repurposing or repositioning; recertification; or implementation of ongoing performance tracking or building automation.