



Optimization in Flight

Realizing opportunities to enhance a project's outcome often extends beyond the technical nature of it. The collective body that turns a capital investment from a code-compliant space that serves a specific function to a highly sought-after destination is changing the landscape of facility planning and execution. These efforts are requiring a more integrated, creative approach with engagement across our field of subject matter experts.

Adapting to Change

Access to resources and industry advancements accentuates the need for adaptive approaches to capital planning and implementation. As owners engage consultants and trade representatives to protect their triple bottom line, new solutions are emerging that illustrate the role of each and their true capacity to contribute to a well-orchestrated project.

7.2M people employed in US construction industry workforce demand doubled between 2014-2018, with only 14%¹ as new hires - accentuates the concern for industry's future

ADAPTING WORKFLOW
partnering with industry leaders to infuse efficiencies into project delivery

Technology's Influence

The Internet of Things has elevated the concept of Smart Buildings to a whole new level. While owners evaluate how to optimize their building performance through technology and utilize web-based applications, they are balancing risks and security exposure. Infrastructure, software and design specialists are developing solutions that harness the power of technology to realize clients' operational goals.

population growth + urbanization impact
ASHRAE suggests a repositioning of utilities in *New Energy Future*

EMERGING UTILITY
the telecommunications room is instrumental to system automation

Poising for the Future

System performance is no longer a theory. Codes, incentives and legislative policies are changing how system planning and implementation are being executed. Three of the ten fastest growing commercial markets have goals to reduce building greenhouse gas (ghg) emissions against baselines set over a decade ago². Despite an increase in their operating inventory and double-digit population growth, they are still experiencing a 4-8% decrease. Likewise, owners with long-term asset investments are planning for phased modifications to their building systems to offset proposed carbon tax emissions that could add 5% annually to their operating costs.

10 states representing one-quarter of the US population & one-third GDP have active carbon pricing programs³, three more states expected to implement

CARBON REDUCTION
scaling systems for future adaptations

¹ US Department of Labor, Bureau of Labor Statistics, October 2018.
² Seattle Community Greenhouse Gas Emissions Inventory; Greenhouse Gas Reduction Strategy, City of San Jose
Greenhouse Gas Reduction Strategy, City of San Francisco.
³ Center for Climate and Energy Solutions.