INVENTION, ANALYSIS, AND DESIGN

SUSTAINABLE SOLUTIONS
At Sasaki, we know our work will contribute to the resilience of the world’s built environment, natural environment, society, and economy. The decisions we make in our projects today will affect the ability of future generations to meet their needs.

Across the breadth of our practice and through the depth of our work, Sasaki provides Sustainable Solutions at multiple scales—the region, the city, the neighborhood, the campus, the building. Across these scales, we integrate multiple professions, including planning and urban design, landscape architecture, architecture, civil engineering, strategic planning, and interior design.

We believe the most creative and enduring solutions across the full spectrum of design challenges will emerge from a strong foundation in sustainability—the “triple bottom line” of the social, environmental, and economic conditions unique to each project.
Our Sustainable Solutions Framework defines our values—the key elements of our sustainability practice, and informs the analysis, strategies, and performance metrics of our project work.

It serves as the foundation for project ideas and strategies, as our point of reference, and as a guide for ensuring sustainable outcomes. The framework sets our aspirational goals—the goals we work toward and embrace in our work.

Our aim is to collaborate with clients to develop inspiring and measurable Sustainable Solutions for all scales of the built environment that will ultimately contribute towards a positive and more balanced world.

**SUSTAINABLE SOLUTIONS FRAMEWORK**

**ECONOMIC ELEMENTS**

**finance and investment**
Sustainable environments are financially feasible. Our goal is to plan and design environments with a long-term view of capital and operating costs and that create a context for inward investment.

**economic development and partnerships**
Sustainable environments support local economic development. Our goal is to facilitate economic development and partnerships in communities and regions.

**stability and resilience**
Sustainable environments are stable and resilient. Our goal is to work with local communities, businesses, and governments to ensure a context for economic stability and resilience emerges over the long term.

**ENVIRONMENTAL ELEMENTS**

**climate**
Sustainable environments are responsive to climate. Our goal is to create buildings, landscapes, and plans that are appropriate to their location, and mitigate and adapt to climate change.

**land**
Sustainable environments take into account geological resources, topography, and soils. Our goal is to provide planning and design strategies that preserve, repair, and enhance a site, campus, community, or region.

**water**
Sustainable environments respect the hydrological cycle and watersheds. Our goal is to provide creative and innovative strategies for preserving watersheds, enhancing water quality, and decreasing the demand for potable water use.

**energy**
Sustainable environments utilize energy efficiently and limit the need for fossil fuels. Our goal is to plan and design high-performance environments that promote the use of renewable energy.

**materials**
Sustainable design demands non-toxic, low carbon materials. Our goal is to specify sustainable materials procured in close proximity to the site and that do not contribute to environmental degradation during extraction, manufacturing, or delivery.

**SOCIAL ELEMENTS**

**community**
Sustainable environments foster a sense of community. Our goal is to create environments that encourage community engagement and interaction.

**place**
Sustainable environments foster a sense of place. Our goal is to create places that are responsive to the culture, history, traditions, and context of the communities within which we work.

**health and wellbeing**
Sustainable environments contribute to the health and wellbeing of citizens. Our goal is to create environments—urban districts, campuses, landscapes, buildings, and interiors—that promote human health and development.

**BIKE LANE**
Sustainable environments are connected to nature. Our goal is to provide opportunities for human beings to connect with other living systems.

**BIODIVERSITY**
Sustainable landscapes are functional and beautiful. Our goal is to create “working landscapes” that provide wind protection and shade, perform stormwater management functions, and protect natural systems and habitats.

**BIOMASS**
Sustainable design demands non-toxic, low carbon materials. Our goal is to specify sustainable materials procured in close proximity to the site and that do not contribute to environmental degradation during extraction, manufacturing, or delivery.

**BUILT ENVIRONMENT**

**landscape**
Sustainable landscapes are functional and beautiful. Our goal is to create “working landscapes” that provide wind protection and shade, perform stormwater management functions, and protect natural systems and habitats.

**land use and civic structure**
Sustainable environments utilize land efficiently. Our goal is to promote land use patterns that create an inspiring civic realm responsive to the context of a site, campus, community, or region.

**infrastructure**
Sustainable infrastructure is efficient and well-coordinated. Our goal is to develop a whole systems approach to green infrastructure—an approach that promotes efficiency in traditional systems as well as innovative new systems.

**spatial and urban structure**
Sustainable environments address mobility in all of its forms. Our goal is to plan for a comprehensive system of pedestrian, bicycle, transit, and vehicular movement—a system that coordinates the land use patterns and transportation policies of a campus, community, or region.

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**safety**
Sustainable environments are safe. Our goal is to design environments that are safe and secure for the inhabitants, users, and visitors.

**biophilia**
Sustainable environments are connected to nature. Our goal is to provide opportunities for human beings to connect with other living systems.
Sustainable environments utilize energy efficiently and limit the need for fossil fuels. Our goal is to plan and design high-performance environments that promote the use of renewable energy.

Integrated systems and BIM result in **74% energy savings**

**Wind turbines** along the waterfront produce electricity

**Operable clerestory windows** provide daylight and promote natural ventilation

**34% electricity reduction** achieved through lighting retrofits

**Geothermal heat pump system** reduces energy use by **30%**

**Photovoltaic energy and shading strategy**

**.54W/sf, 46% better** than energy code, at no additional cost

**Corpus Christi Bayfront, North Bayfront Park; Corpus Christi, Texas**

**Dubai Aerospace University, Master Plan; United Arab Emirates**

**University of California Davis, Graduate School of Management and Conference Center/Maurice J. Gallagher Jr. Hall (GSM); Davis, California**

**Khalifa University of Science, Technology and Research; Abu Dhabi, UAE**

**Plymouth State University, Welcome Center & Ice Arena; Plymouth, New Hampshire**

**University of California Santa Barbara, Student Resource Building; Santa Barbara, California**

**National Grid, New England Main Office; Waltham, Massachusetts**

**Sasaki Associates, Inc.; Watertown, Massachusetts**

**University of California Davis, Graduate School of Management and Conference Center/Maurice J. Gallagher Jr. Hall (GSM); Davis, California**
Sustainable environments are responsive to climate: Our goal is to create buildings, landscapes, and plans that are appropriate to their location, and that mitigate/adapt to climate change.

CO. CLIMATE

Optimal solar and wind orientation
- minimizes heat gain and blocks northern winds

Windbreaks
- mitigate strong winds

Canopy structures
- filter sunlight and circulate air
- creating a cooler microclimate

Facade studies assist in reducing heating and cooling loads

Street and building orientation
- minimize the urban heat island effect and provide shade

Pocket parks
- provide respite from the urban environment

Enhanced microclimates
- create shaded outdoor spaces

Louvered shading
- reduces heat gain and cooling loads

Greenacre Park, New York, New York

West Texas A&M University, Master Plan, Canyon, Texas

University of California Santa Barbara, Student Resource Building; Santa Barbara, California

SAMSUNG BROMEX CORPORATE CAMPUS; SEOUL, KOREA

St. Edward’s University, Landscape Master Plan and Landscape Improvements; Austin, Texas

Lulu Neighborhood 3; Abu Dhabi, United Arab Emirates

Abu Dhabi University Education Park, Abu Dhabi, United Arab Emirates

Singapore University of Technology and Design; Singapore
**Sustainable environments are respectful of the flora and fauna indigenous to the place: Our goal is to preserve and enhance biologically diverse habitats.**

- **Preservation of ecological systems** in the Tamarisk Eco Reserve
- **ecological corridors** provide for wildlife habitat and movement, increase rainfall infiltration, and promote outdoor recreation.

**Five acre wild flower meadow** reduces mowing costs and saves $32,400 annually.

**Minimizing human impact, establishing habitat corridors and creating riparian buffers: restores degraded coastal wetlands.**

**Beidaihe New District Master Plan; Qinhuangdao, China**

**Jinan North District Urban Design; Jinan, China**

**Dead Sea Development Zone; Amman, Jordan**

**Jiading Central Park; Shanghai, China**

**The Walden Woods Project; Concord, Massachusetts**

**Wilkes-Barre River Common; Wilkes-Barre, Pennsylvania**

**Brister’s Hill; Concord, Massachusetts**

**601 Congress Street, Landscape Architectural Services; Boston, Massachusetts**

- **Restoring ecological function** improves habitat conditions and creates a valuable amenity.
- **Dorchester Shores Beach Restoration, Savin Hill/Inner Malibu Beach; Dorchester, Massachusetts**
- **Removing invasive plant species and reducing erosion preserves salt marshes.**
- **Interpretive signage and wayfinding educates visitors**

**Minimizes stormwater runoff and reduces heat island effect.**

**native sea grass, roof garden**

- **Beidaihe New District Master Plan; Qinhuangdao, China**

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**native sea grass, roof garden**
Sustainable environments respect the hydrological cycle and watersheds:
Our goal is to provide creative and innovative strategies for preserving watersheds, enhancing water quality, and decreasing the demand for potable water use.

A green roof, cistern, and water feature collect and treat 28,500 gallons of rainwater for irrigation.

A network of natural stormwater treatment facilities mitigates peak loads and filters stormwater.

Interpreting the natural stormwater treatment facilities mitigates peak loads and filters stormwater.

Rainwater provides 30% of domestic water supply.

The design protects three natural systems: mountainous wadis, alluvial wadis and rivers, and an existing Tamarisk grove.

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WATER

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MOBILITY

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Environmental education trails link regional systems and neighborhoods to the riverfront.

The Charlotte LRT corridor bridges uptown and downtown districts.

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The Charlotte LRT corridor bridges uptown and downtown districts.

29% reduction in single-occupant commuting through alternative transportation plans.

Investments in pedestrian networks encourage walking.

2 million transit trips decrease carbon emissions by 8,816 metric tons.

A comprehensive bicycle network provides mobility options.

Circulation improvements connect urban districts.

University of California Santa Barbara, Student Resource Building; Santa Barbara, California

University of Pennsylvania, Penn Connects Campus Development Plan; Philadelphia, Pennsylvania

Fordham University, Campbell, Salage & Coney Residence Halls; Bronx, New York

Sasaki Associates, Inc.; Watertown Massachusetts

Charlotte CTC Arena Station; Charlotte, North Carolina

Pardall Corridor serves over 10,000 bike riders each day.

University of California Santa Barbara, Student Resource Building; Santa Barbara, California

Cedar Rapids Riverfront, Cedar Rapids, Iowa

East 6th Avenue Bus Rapid Transit; Cleveland, Ohio

Auburn University, Campus Sign Standards; Auburn, Alabama

University of California Santa Barbara, Student Resource Building; Santa Barbara, California

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Cedar Rapids Riverfront, Cedar Rapids, Iowa

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MATERIALS

Sustainable design demands non-toxic, low carbon materials: Our goal is to specify sustainable materials procured in close proximity to the site and that do not contribute to environmental degradation during extraction, manufacture, or delivery.

Adaptive reuse to create a new law school maintains 95% of the building.

A new park incorporates existing ore wall.

Integrated design strategies encourage recycling.

Adaptive reuse of buildings makes use of embodied energy.

 Crushed stonewdust, preserved pier piles, local brick, marine wood, and recycled granite are utilized in the waterfront park.

95% of the building.

95% of construction waste from landfills.

Bowling alleys transform into conference tables.

Salvaged wood from an old Thomas Edison manufacturing facility became the ceiling of a new dining hall.

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Northeastern University, Renovation of the School of Law Complex; Boston, Massachusetts.

National Grid, New England Main Office, Waltham, Massachusetts.

Harvard University Hemenway Gymnasium; Cambridge, Massachusetts.

Lakeside-Southworks, Master Development Plan; Chicago, Illinois.

Bates College, Dining Commons; Lewiston, Maine.

798 Arts District, Vision Plan; Beijing, China.

Continuum; West Newton, Massachusetts.

Charleston Waterfront Park; Charleston, South Carolina.

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Salvaged wood from an old Thomas Edison manufacturing facility became the ceiling of a new dining hall.

95% of construction waste from landfills.

Embodied energy encourages recycling.
Sustainable environments foster a sense of community: Our goal is to create environments that encourage community engagement and interaction.

**Climate responsive design**
- Creates spaces for community engagement

**A park serves as a natural buffer**
- Between port operations and adjacent residences

**Multipurpose spaces foster a sense of community**

**An integrated communication process builds community support**

**Open space**
- Connects the downtown to the natural resources of the river corridor

**Mixed-use development**

**A landmark plaza becomes the heart of an emerging urban core of mixed-use development**

**Shaded pedestrian routes bring people together**

**Thoughtful urban design provides places for people**
We are fluent in many sustainability assessment tools including LEED®, Green Globes, Sustainable Sites Initiative, STARS, Estedama, GreenMark, Energy Star, Architecture 2030, Living Building Challenge, and more. Believing in LEED® literacy, over 50% of our architects and interior designers and more than 30% of our entire staff has earned LEED accreditation. Twenty-seven of our projects are LEED® Certified, including our LEED® for Existing Buildings Gold Certified Office in Boston.

As a Founding Gold Sponsor of the USGBC Massachusetts, an USGBC National Member, an EPA Energy Star Partner, and a Founding Advisor to the American College and University President’s Climate Commitment, Sasaki is deeply committed to reducing our carbon footprint. We currently benchmark projects against the Architecture 2030 Challenge and Energy Star. In doing so, we see a clear trend in increasing energy efficiency and overall sustainability of both our work and our operations.

Sasaki professionals consider the social, environmental, and economic pillars of sustainability in our planning and built work.

**WALKING THE GREEN TALK**

Sustainability for Sasaki begins at home with an exemplary sustainable work culture and facility. Sasaki’s comprehensive approach of assessment, benchmarking, analysis, and action creates a positive reinforcing feedback loop for improving the sustainability of our office at Chase Mills in Watertown, Massachusetts. We began benchmarking our impacts in 2004—categorized around building, waste, site, purchasing, and transportation. This led to the sustainability improvement plan that has transformed our operations. Today, our electricity bills are 34% lower, our water bills are 30% lower, 29% more of our employees commute by alternative transit, and over 80% of our waste is diverted from landfills. Our attention to efficiency has resulted in an annual savings of $90,000. Constructed in 1857, Chase Mills earned LEED® EB Gold certification in 2008. Walking the green talk at Chase Mills assists us in providing insight on the value of sustainable systems in our project work and for our clients. It demonstrates one aspect of our comprehensive commitment to sustainability—now and into the future.

**OUR SUSTAINABILITY CREDENTIALS**

**RECENT SUSTAINABLE DESIGN AWARDS**

**Cedar Rapids Riverfront Park Master Plan, Cedar Rapids, Iowa**
Excellence Award for Innovation for Sustaining Places, American Planning Association Iowa Chapter, 2010

**University of California Davis Graduate School of Management Maurice J. Gallagher Jr. Hall; Davis, California**
Award of Merit in Sustainable Design, SEADNC Excellence in Structural Engineering Awards, 2010
Award of Merit for Energy + Sustainability, AIA San Francisco Design Awards, 2010

**National Grid New England Offices; Waltham, Massachusetts**
Technical Merit Award for Environmental/Energy/Climate Change Project, Environmental Business Council, 2010
Green Innovation Award, United States Green Building Council Massachusetts Membership Forum, 2010
Honorable Mention Commercial Category, Environmental Design & Construction Excellence in Design Awards, 2010
Award of Excellence for Sustainability, IFMA Boston Chapter, 2010

**Abu Dhabi University Education Park; Abu Dhabi, United Arab Emirates**
Citation for Master Planning with Consideration of Climate Conditions, Boston Society of Architects Urban Planning and Design Awards, 2009

**Sasaki Associates, Inc.; Watertown, Massachusetts**
Green Innovation Award, United States Green Building Council Massachusetts Membership Forum, 2009

**Sasaki Associates, Inc. 77 Geary Street Offices; San Francisco, California**
Merit Award, Best Sustainable Commercial/Industrial Project, Gold Nugget Awards Program, 2008

**United States Military Academy Arvin Cadet Physical Development Center; West Point, New York**
Honor Award, Chief of Engineers Design and Environmental Awards Program, 2008

**Southworks; Chicago, Illinois**
Sustainable Design Award, American Institute of Architects Chicago Chapter, 2007

**601 Congress Street Green Roof; Boston, Massachusetts**
Green Roof Award of Excellence Intensive Commercial Category, Green Roofs for Healthy Cities, 2006
LEED PROJECTS

27 LEED CERTIFIED PROJECTS: BY CERTIFICATION YEAR

2006
- 601 Congress Street; LEED NC 2.1 Certified
- Cleveland State University Recreation Center; LEED NC 2.1 Certified

2007
- Sasaki Associates, San Francisco; LEED CI 2.0 Certified
- College of William & Mary Jamestown Residenza Halls; LEED NC 2.1 Certified
- Pilgrim Harvard Medical International; LEED CI 2.0 Silver
- Sasaki Associates, Watertown; LEED NC 2.2 Gold
- University of California, Santa Barbara Student Resource Building; LEED NC 2.2 Silver
- Northfield Mount Hermon Bolger House (Landscape); LEED NC 2.2 Silver
- University of South Carolina, Honors College Housing; LEED NC 2.2 Gold
- US Land Port of Entry at Galais, Maine (Landscape); LEED NC 2.2 Gold

2008
- Rensselaer Polytechnic Institute East Campus Athletic Village; LEED NC 2.2 Gold
- University of Arizona Student Recreation Center Expansion; LEED NC 2.2 Platinum
- California State University, Chico Wildcat Recreation Center; LEED NC 2.2 Gold
- College of William & Mary School of Education; LEED NC 2.2 Gold
- Fordham University, Campbell, Salis & Conley Residence Halls; LEED NC 2.2 Gold
- Lorain County Community College New Learning Technology Center/Library; LEED NC 2.2 Silver
- Northfield Mount Hermon Bolger House (Landscape); LEED NC 2.2 Gold

2009
- California State University, Chico Wildcat Learning Technology Center/Library; LEED NC 2.2 Gold
- California State Polytechnic University, Pomona Residential Suites Phase II; LEED NC 2.2 Silver
- Grinnell College Athletic Center; LEED NC 2.2 Silver
- University of Florida Hough Hall, Graduate School of Business; LEED NC 2.2 Gold
- University of California, Riverside Glen Mor (Landscape); LEED NC 2.2 Gold
- University of Pennsylvania Libraries; LEED NC 2.2 Gold
- University of Missouri; LEED 2009 Master Site

2010
- 2009 Pennsylvania Avenue (Landscape); LEED CS 2.2 Gold
- University of California, Merced Joseph E. Gaillot Recreation Center; LEED NC 2.2 Gold
- University of California, Santa Barbara Student Resource Building; LEED NC 2.2 Silver
- Fordham University, Campbell, Salis & Conley Residence Halls; LEED NC 2.2 Gold
- Lorain County Community College New Learning Technology Center/Library; LEED NC 2.2 Silver
- Northfield Mount Hermon Bolger House (Landscape); LEED NC 2.2 Gold

2011
- University of California, Davis Graduate Dockser Hall Renovation; LEED NC 2.2 Gold
- Northeastern University School of Law, Building; LEED CI 2.0 Platinum
- National Grid New England Main Office Building; LEED CI 2.0 Platinum
- Northeastern University School of Law, Dockser Hall Renovation; LEED NC 2.2 Gold
- University of California, Davis Graduate School of Management and Conference Center/Maurice J. Gallagher Jr. Hall, LEED NC 2.2 Platinum
- University of California, Merced Joseph E. Gallo Recreation and Wellness Center; LEED NC 2.1 Gold
- University of New Haven Soundview Hall; LEED NC 2.2 Gold

2012
- University of Arizona Student Recreation Center Expansion; LEED NC 2.2 Platinum
- California State Polytechnic University, Pomona Residential Suites Phase II; LEED NC 2.2 Silver
- Grinnell College Athletic Center; LEED NC 2.2 Silver
- University of Florida Hough Hall, Graduate School of Business; LEED NC 2.2 Gold
- University of Pennsylvania Libraries; LEED NC 2.2 Gold
- University of Missouri; LEED 2009 Master Site

2013
- FDA Consolidation—CORH Office (Landscape); LEED NC 2.2 Gold goal
- 17 Cambridge Center (Landscape); LEED CS 2.0 Platinum
- Edward M Kennedy Institute; LEED NC 2.2 Certified Goal
- North Carolina State University Residence Halls; LEED 2009 BD+C Silver goal
- Ohio State University Residence Halls; LEED 2009 BD+C Silver goal
- University of California, Riverside Glen Mor 2 Student Apartments; LEED NC 2.2 Silver goal
- University of Connecticut, Avery Point Student Center; LEED 2009 BD+C Silver goal
- Lakeside Southworks, Chicago; LEED ND Pilot Silver goal
- University of Missouri; LEED 2009 Master Site

21 LEED REGISTERED PROJECTS: BY CONSTRUCTION COMPLETION YEAR

2006
- Shands Healthcare—New Cancer Hospital (Landscape); LEED NC 2009 Certified goal
- Bates College Dining Hall; LEED NC 2.2 Silver goal
- FDA Consolidation—Building 1 Landscape; LEED NC Gold goal
- Brickell Avenue Financial Center (Landscape); LEED CS 2.0 Platinum goal
- Queen’s University Queen’s Centre; LEED NC 2009 Silver goal
- Scripps Health—New Cancer Hospital; LEED NC 2009 Silver goal
- Shands Healthcare—New Cancer Hospital; LEED NC 2009 Certified goal
- U.S. Department of Health and Human Services—New Workforce; LEED NC 2009 Gold goal
- Edward M Kennedy Institute; LEED NC 2.2 Certified Goal
- North Carolina State University Residence Halls; LEED 2009 BD+C Silver goal
- Ohio State University Residence Halls; LEED 2009 BD+C Silver goal
- University of California, Riverside Glen Mor 2 Student Apartments; LEED NC 2.2 Silver goal
- University of Connecticut, Avery Point Student Center; LEED 2009 BD+C Silver goal
- Lakeside Southworks, Chicago; LEED ND Pilot Silver goal
- University of Missouri; LEED 2009 Master Site

2007
- 2009 Pennsylvania Avenue (Landscape); LEED CS 2.2 Gold goal
- Sacred Heart University Gallery Building; LEED NC 2009 Silver goal
- Stippey Rock University Student Union Building; LEED NC 2009 Silver goal
- Stony Brook University New Recreation Center; LEED NC 2.2 Silver goal
- Towson University Basketball Arena; LEED NC 2.2 Silver goal
- University of Wisconsin—Madison, School of Human Ecology Addition and Renovation; LEED NC 2.2 Silver goal
- University of Missouri; LEED 2009 Master Site

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- University of California, Riverside Glen Mor 2 Student Apartments; LEED NC 2.2 Silver goal
- University of Connecticut, Avery Point Student Center; LEED 2009 BD+C Silver goal
- Lakeside Southworks, Chicago; LEED ND Pilot Silver goal

21 SASAKI LEED PROJECTS: PERFORMANCE AVERAGES

- Irrigation water saved: 82%
- Energy use reduction: 21%
- Waste diverted: 21%
- Recycled content: 58%
- FSC certified: 83%
- Species with daylight: 95%
- Species with views: 83%
- Energy cost savings: 21%
- Water cost savings: 21%
- Energy use reduction: 21%
- Waste diverted: 58%
- FSC certified: 83%
- Species with daylight: 95%
- Species with views: 83%

NUMBER OF SASAKI LEED PROJECTS: BY CERTIFICATION LEVEL

<table>
<thead>
<tr>
<th>Certification Level</th>
<th>Certified Project</th>
<th>Registered Project</th>
</tr>
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<tr>
<td>Platinum</td>
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<tr>
<td>Gold</td>
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<tr>
<td>Silver</td>
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SASAKI LEED PROJECTS: PERFORMANCE AVERAGES