First-Ever Envision® Project Award



The 141,000-square-foot William Jack Hernandez Sport Fish Hatchery is the heart of Alaska's sport fish stocking program and the largest indoor sport fish hatchery in North America.

- Includes more than 100 fish. rearing tanks
- · Raises Chinook and Coho salmon, rainbow trout, Arctic char, and Arctic grayling
- Produces more than six million fish per year
- Stocks 200 different locations
- State-of-the-art water recirculation technologies use approximately five percent of the water and energy required in a conventional hatchery

HDR was the prime consultant for this state-of-the-art hatchery.

For more information visit www.hdrinc.com.

Envision[®] Sustainable Infrastructure Rating System

PURPOSE OF ENVISION®

To foster a dramatic and necessary improvement in the performance and resiliency of our physical infrastructure across the full dimensions of sustainability. Envision® provides the framework and incentives needed to initiate this systemic change. As a planning and design guidance tool, Envision® is meant to provide industry-wide sustainability metrics for all infrastructure types—an approach similar to its vertical facility counterpart, LEED®.

ENVISION® BACKGROUND



Envision® was created by a strategic alliance Infrastructure of the Zofnass Program

for Sustainable Infrastructure at the Harvard University Graduate School of Design and the Institute for Sustainable Infrastructure (ISI). ISI is a not-for-profit education and research organization, dedicated to developing and maintaining a civil infrastructure rating system, and was formed by the American Council of Engineering Companies, the American Public Works Association and the American Society of Civil Engineers.

OVERVIEW

- Designed as a project assessment tool and to offer guidance for sustainable infrastructure design
- Can be used as a decision-making checklist or to document processes, decisions and design to apply for a third-party verified Envision® award
- Objective framework of criteria and performance achievement that helps identify ways in which sustainable approaches can be used to plan, design, construct and operate infrastructure projects

WHERE DOES ENVISION® APPLY?

- · Roads, bridges, pipelines, railways, airports, dams, levees, landfills, water treatment systems and other civil infrastructure
- Does not include buildings or facilities, except process-focused, industrial-type facilities
- Used by infrastructure owners, design teams, community groups, environmental organizations, constructors, regulators and policy makers

STRUCTURE

Credit Categories & Subcategories

The Envision® rating system has 60 sustainability criteria—called credits—divided into five categories, each with two to three subcategories:

- 1 | Quality of Life Purpose, Wellbeing, Community
- 2 | Leadership Collaboration, Management, Planning
- 3 | Resource Allocation Materials, Energy, Water
- 4 | Natural World Siting, Land & Water, Biodiversity
- 5 | Climate and Risk Emissions, Resilience

Credit Levels of Achievement

- 1 | Improved Performance that is above conventional
- 2 | Enhanced Sustainable performance that adheres to Envision® principles
- 3 | Superior Sustainable performance that is noteworthy
- 4 | Conserving Performance that has achieved essentially zero impact
- 5 | Restorative Performance that restores natural or social systems

Innovation Points

Possible points awarded in each category for both exceptional performance and application of methods that push innovation in sustainable infrastructure.

Project Award Levels

To qualify for an award, projects must achieve a minimum percentage of the total applicable Envision® points. Projects can be recognized at four award levels.

Recognition Level	Total Applicable Points (%)		
Bronze Award	20		
Silver Award	30		
Gold Award	40		
Platinum Award	50		



Envision Gold Award: William Jack Hernandez Sport Fish Hatchery

CREDIT CATEGORY	AVAILABLE POINTS	AWARDED POINTS	INNOVATION POINTS	TOTAL POINTS	% OF AVAILABLE POINTS
QUALITY OF LIFE	181	67	0	67	37%
LEADERSHIP	121	81	1	82	67%
RESOURCE ALLOCATION	182	56	0	56	31%
NATURAL WORLD	164	84	0	84	51%
CLIMATE & RISK	122	35	0	35	29%
TOTAL PROJECT POINTS	770	323	1	324	42%

CREDIT CATEGORY	SUBCATEGORY	CREDITS AWARDED			LEVEL OF ACHIEVEMENT
QUALITY OF LIFE	PURPOSE	QL 1.1	Improve community quality of life	20	Conserving
		QL 1.2	Stimulate sustainable growth and development	5	Superior
		QL 1.3	Develop local skills and capabilities	1	Improved
		QL 2.1	Enhance public health and safety	2	Improved
	WELLBEING	QL 2.3	Minimize light pollution	2	Enhanced
		QL 2.4	Improve community mobility and access	7	Superior
		QL 2.5	Encourage alternative modes of transportation	3	Enhanced
		QL 2.6	Improve site accessibility, safety and wayfinding	12	Conserving
	COMMUNITY	QL 3.1	Preserve historic and cultural resources	1	Improved
		QL 3.2	Preserve views and local character	3	Enhanced
		QL 3.3	Enhance public space	11	Conserving
			QUALITY OF LIFE TOTAL	67	
		LD 1.1	Provide effective leadership and commitment	17	Conserving*
	COLLABORATION	LD 1.3	Foster collaboration and teamwork	15	Conserving*
LEADERSHIP		LD 1.4	Provide for stakeholder involvement	5	Enhanced
	A A A A A A C C A A C A T A T A T A	LD 2.1	Pursue by-product synergy opportunities	15	Restorative*
	MANAGEMENT	LD 2.2	Improve infrastructure integration	16	Restorative*
	DI ANININIC	LD 3.1	Plan for long-term monitoring and maintenance	10	Conserving*
	PLANNING	LD 3.3	Extend useful life	3	Enhanced
	Innovation Credit	LD 0.0	Intent to share sample documentation for training	1	Earned 1 point
			LEADERSHIP TOTAL	82	
M	MATERIALS	RA 1.6	Reduce excavated materials taken off site	2	Improved
	FNIFDCV	RA 2.1	Reduce energy consumption	18	Conserving*
DECOUDE	ENERGY	RA 2.3	Commission and monitor energy systems	3	Enhanced
RESOURCE		RA 3.1	Protect fresh water availability	17	Conserving
ALLOCATION	WATER	RA 3.2	Reduce potable water consumption	13	Superior
		RA 3.3	Monitor water systems	3	Enhanced
			RESOURCE ALLOCATION TOTAL	56	
		NW 1.4	Avoid adverse geology	3	Superior
NATURAL	SITING	NW 1.5	Preserve floodplain functions	5	Enhanced
		NW 1.7	Preserve greenfields	23	Restorative*
	LAND & WATER BIODIVERSITY	NW 2.2	Reduce pesticide and fertilizer impacts	5	Superior
		NW 2.3	Prevent surface and groundwater contamination	18	Restorative*
		NW 3.1	Preserve species biodiversity	2	Improved
WORLD		NW 3.1	Control invasive species	5	Superior
		NW 3.2	Restore disturbed soils	8	Conserving
		NW 3.4	Maintain wetland and surface water functions	15	Conserving
		1447 3.4	NATURAL WORLD TOTAL	84	Conserving
			- I I I I I I I I I I I I I I I I I I I		
CLIMATE & RISK	EMISSIONS	CR 1.2	Reduce air pollutant emissions	2	Improved
	DECHLENCE	CR 2.2	Avoid traps and vulnerabilities	16	Conserving
	RESILIENCE CR 2.4		Prepare for short-terms hazards	17	Conserving
			CLIMATE & RISK TOTAL	35	- J
* Credits awarded the highest le	evel		TOTAL POINTS AWARDED	324	

^{*} Credits awarded the highest level

TOTAL POINTS AWARDED

CREDIT LEVELS OF ACHIEVEMENT

- Improved: Performance that is above conventional
- Enhanced: Sustainable performance that is on the right track
- Superior: Sustainable performance that is noteworthy
- Conserving: Performance that has achieved essentially zero impact
- Restorative: Performance that restores natural or social systems