

Envisioning Sustainable Infrastructure



Bill Bertera CEO and President





THE IMPORTANCE OF INFRASTRUCTURE

THE REALITIES OF THE WORLD WE LIVE IN

A NEW FACT OF LIFE

Infrastructure provides:

- A basis for public health
- A quality of life worth living
- Economic viability
- Aging Infrastructure
- Population Growth
- Diminished Resources
- Climate Change

It is no longer enough that infrastructure work, that it be constructed on time and within budget, or even that it last. It now must be *sustainable*.







REPORT CARDS

RETURN ON INVESTMENT

Sustainable development is

"...development that meets the needs of the present without compromising the ability of future generations to meet their own needs." *Brundtland Commission Report 1987*



Canada: Nearly 35% of assets are in need of attention.

Public sector ROI





SUSTAINABLE INFRASTRUCTURE TOOLS

SECTOR SPECIFIC

ALL INFRASTRUCTURE













ENVISIO NT







To help infrastructure owners make more informed decisions about the sustainability of their infrastructure projects

Envision® is not a decision making tool...
It is a decision making guide

- Envision applies to all civil infrastructure
- Envision applies to all project phases
- Is designed to keep pace with a changing concept of sustainability





60 CREDITS IN 5 CATEGORIES

5 LEVELS OF ACHIEVEMENT



QUALITY OF LIFE
13 CREDITS



LEADERSHIP 10 CREDITS



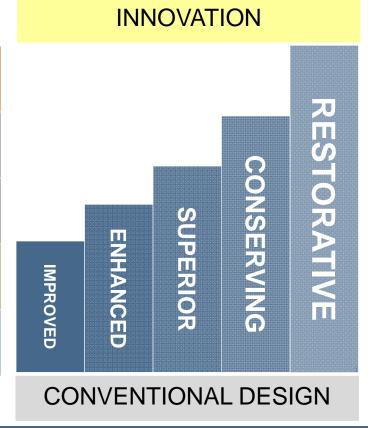
RESOURCE ALLOCATION 14 CREDITS



NATURAL WORLD
15 CREDITS



CLIMATE AND RISK 8 CREDITS





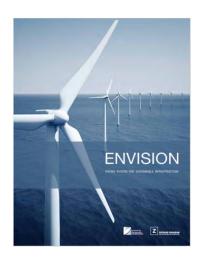


ENVISION COMPONENTS

GUIDANCE MANUAL

PRE-ASSESSMENT CHECKLIST

ONLINE SCORESHEET A no cost, downloadable guidance manual



- A no-cost, downloadable, selfassessment tool
- An educational tool
- Familiarizes users with sustainability
- A no cost, comprehensive, selfassessment online calculator





ENVISION RECOGNITION

PROFESSIONAL CREDENTIALING

PROJECT VERIFICATION AND AWARD PROGRAM

- Envision Sustainability Professional
- Over 4,300 world-wide
- Over 150 in Canada



- Independent third-party review
- Optional with associated fee





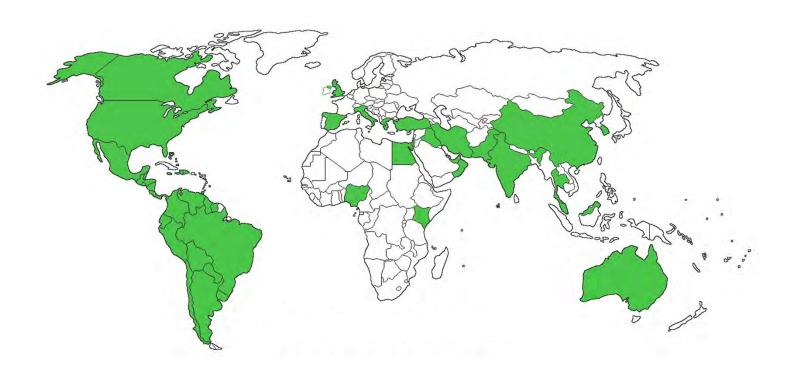








Envision Adoption







INFRASTRUCTURE OWNERS

Canadian entities with ENV SPs:

- City of Lacombe
- Metro Vancouver
- Port Metro Vancouver
- Toronto and Region Conservation Authority
- InfrastructureCanada





Madison Metropolitan Sewerage District



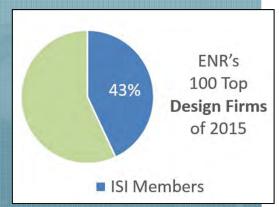


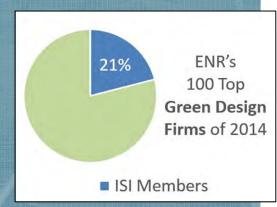




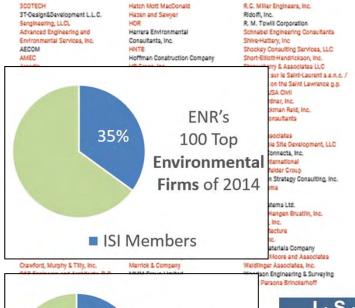


INFRASTRUCTURE PROFESSIONALS





Envision Qualified Companies











Project Awards



Grand Bend Area Wastewater Treatment Facility



Low Level Road









Designed by Stantec







STRATEGIES FOR CHANGING THE INDUSTRY

- Look for opportunities to make incremental improvements in performance on every project
- Use standardized tools and metrics instead of "black box" or proprietary methods
- Document sustainable practices and monitor performance
- Report results and share lessons learned





FOR MORE INFORMATION ABOUT ENVISION®

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