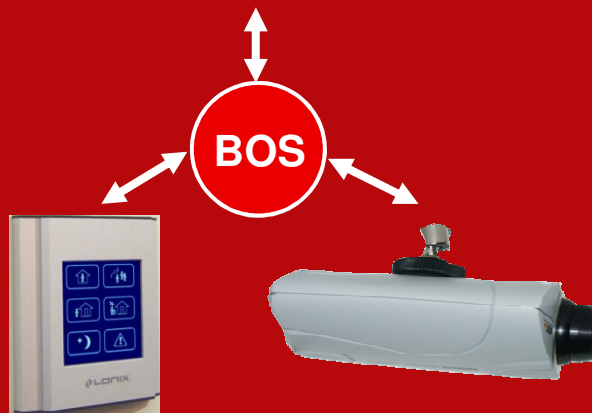




SERVICE CENTER



Solutions for Intelligent Green Buildings and Cities

Tuomas Koskenranta, CEO
COBA Middle East FZCO

Intelligence & Solutions for Green Buildings

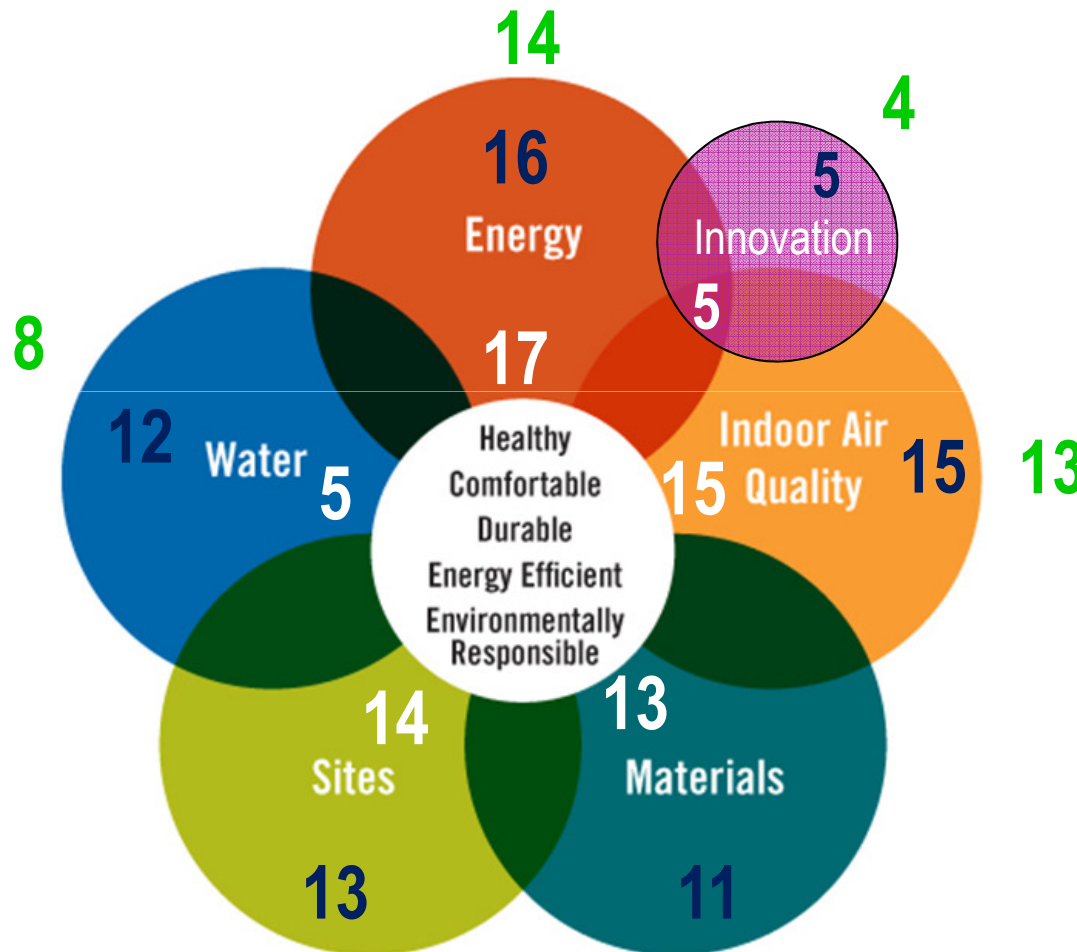


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- » Intelligent Automation and Security solutions
- » Energy-saving ventilation
- » Smart filters for better indoor air
- » Video monitoring
- » Central battery system
- » Intelligent Green Building design
- » All systems integrated with the common platform

Typical LEED points achieved by utilizing our **Green & Intelligent Solution**



LEED	US	EGBC*	Effect
Energy	17	16	14
Water	5	12	8
IEQ	15	15	13
Innovation	5	5	4
Sites	14	13	-
Materials	13	11	-
TOTAL	69	72	39

Certified	26-32
Silver	33-38
Gold	39-51
Platinum	52-69

* Proposed EGBC rating

Energy & Atmosphere

	Max	Effect
» Minimum Energy Performance less 4%	1	1
» Minimum Energy Performance less 8%	1	1
» Minimum Energy Performance less 12%	1	1
» Minimum Energy Performance less 16%	1	1
» Minimum Energy Performance less 20%	1	1
» Minimum Energy Performance less 24%	1	1
» Minimum Energy Performance less 28%	1	1
» Minimum Energy Performance less 32%	1	1
» Minimum Energy Performance less 36%	1	1
» Minimum Energy Performance less 40%	1	1
» On site renewable energy (2.5%, 7,5%, 12,5%)	3	1
» Enhanced Commissioning	1	1
» Enhanced Refrigerant Management	1	1
» Measurement & Verification	1	1
» TOTAL	16	14

Water Efficiency

	Max	Effect
» Irrigation 100% Non-potable water	1	-
» Reduce Potable Water for A/C make-up by 50%	1	1
» Reduce Potable Water for A/C make-up by 100%	1	1
» Harvest 50% of Condensate	1	-
» Harvest 100% of Condensate	1	-
» Reduce potable water for sewage conveyance by 50%	1	1
» Treat 100% of waste water on site to tertiary standards	1	-
» Water Use Reduction Base Line less 10%	1	1
» Water Use Reduction Base Line less 20%	1	1
» Water Use Reduction Base Line less 30%	1	1
» Water Use Reduction Base Line less 40%	1	1
» Water Use Reduction Base Line less 50%	1	-
» TOTAL	12	8

Indoor Environmental Quality

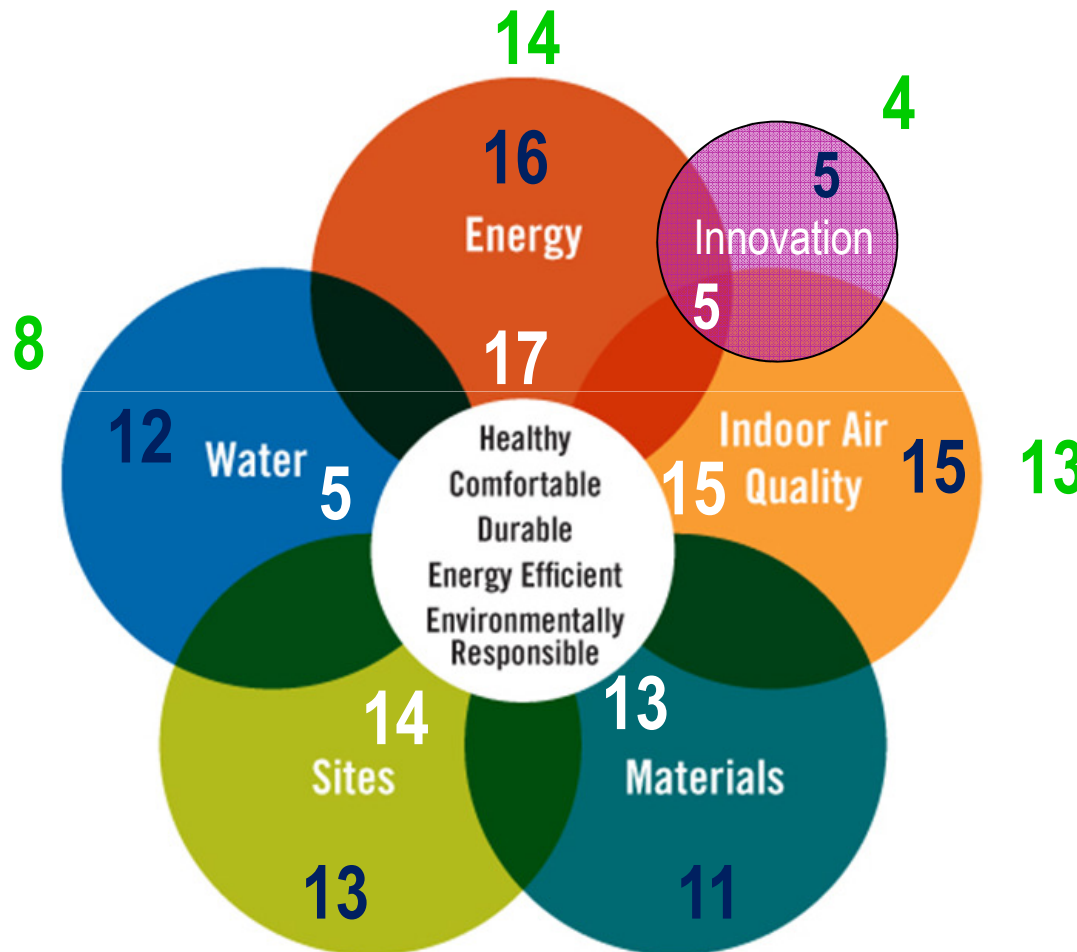
	Max	Effect
» Outdoor Air Delivery Monitoring	1	1
» Increased Ventilation	1	1
» Construction IAQ management Plan During Const.	1	1
» Construction IAQ management Plan Before Occup.	1	1
» Low-Emitting Materials, Adhesives & Sealants	1	1
» Low-Emitting Materials, Paints & Coatings	1	1
» Low-Emitting Materials, Carpet System	1	1
» Low-Emitting Materials, Composite Wood & Agrifibre Products	1	1
» Indoor Chemical & Pollutant Source Control	1	1
» Controlability of Systems Lighting	1	1
» Controlability of Systems Thermal Comfort	1	1
» Thermal Comfort Design	1	1
» Thermal Comfort Verification	1	1
» Daylight 75% of space	1	-
» Daylight 90% of space	1	-
» TOTAL	15	13

Innovation in Design

- » Innovation in design
- » LEED accredited professional
- » TOTAL

Max	Effect
4	3
1	1
5	4

Typical LEED points achieved by utilizing our **Green & Intelligent Solution**



LEED	US	EGBC*	Effect
Energy	17	16	14
Water	5	12	8
IEQ	15	15	13
Innovation	5	5	4
Sites	14	13	-
Materials	13	11	-
TOTAL	69	72	39

Certified	26-32
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Thank you!