

Green Building Planning

John A. Herbert Kelcroft Consulting

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http://www.kelcroft.com.hk/GB2011.pdf

KELCROFT

Building
Services E&M
Consulting

Energy &
Carbon
Management
Consulting

Training

Green
Building
Design
Consulting

about John A. Herbert

- BEAM Professional
- BEAM Faculty
- BEAM Technical Committee
- BEAM Director
- BEAM Chairman F & I
- BEAM Technical Review Panel



challenges





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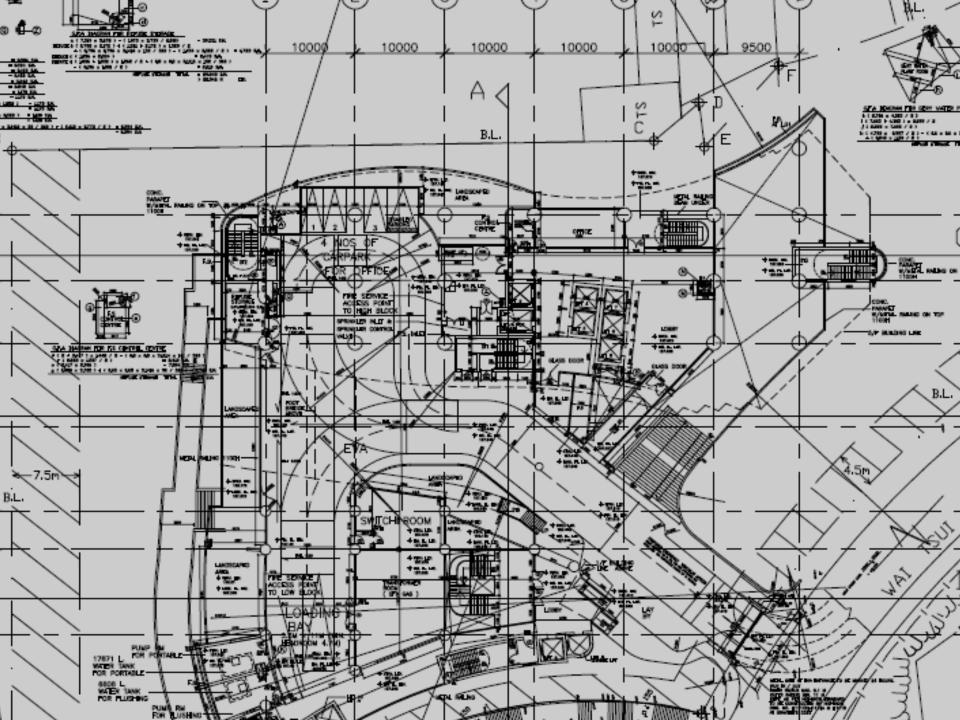








please green me



Green building is one of the most urgent environmental issues of our time.

Buildings produce 63 % percent of our carbon emissions, and consume 89% percent of our electricity.

Now, they must also lead the effort to save the planet.

- Integration
- 2 Charrette
- 3 Certification
- 4 Fee Scales
- **5** Future Proofing

INTEGRATION

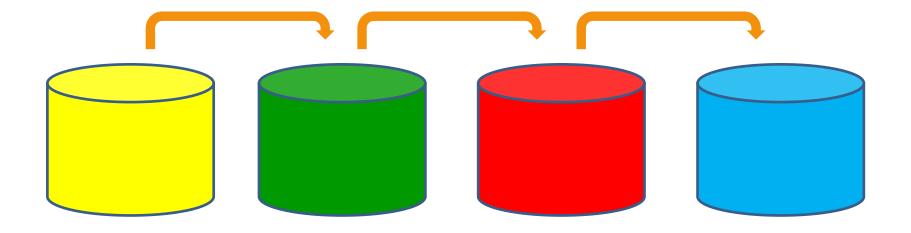




traditional

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
planning																				
design																				
construction																				
operation																				

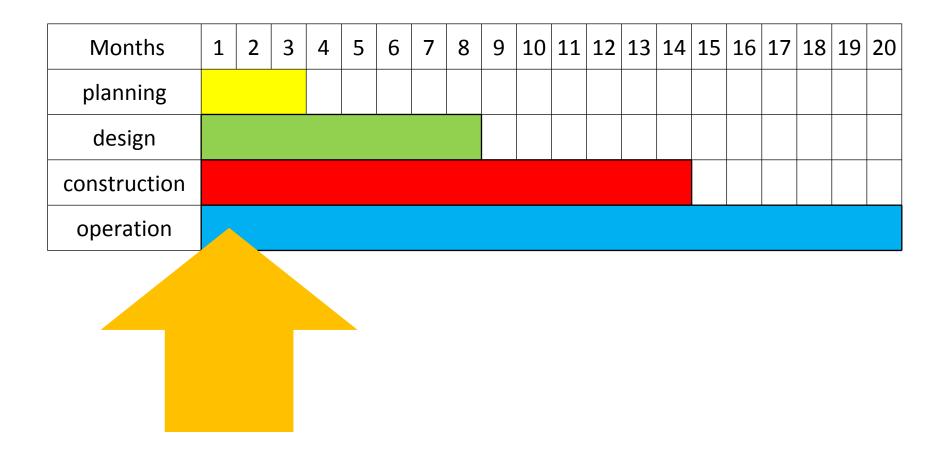
traditional



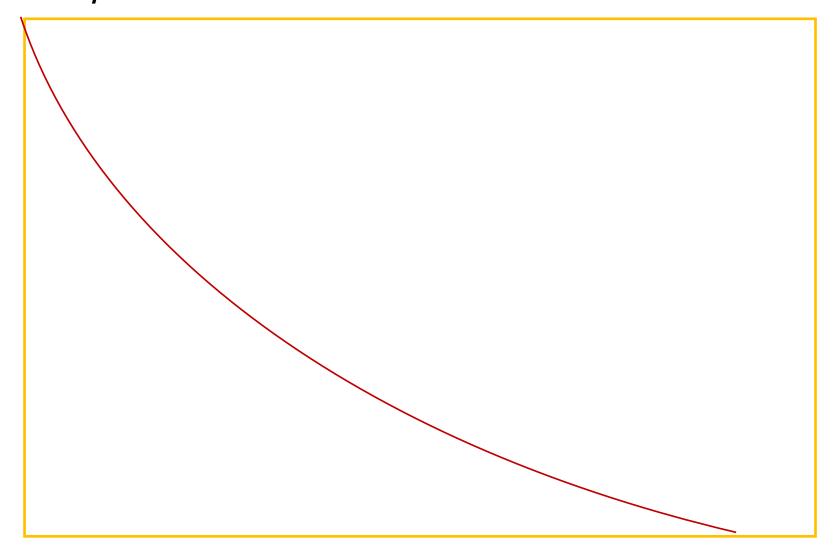
integration

Bringing all stakeholders together early in the process to align objectives and provide expertise from day one...

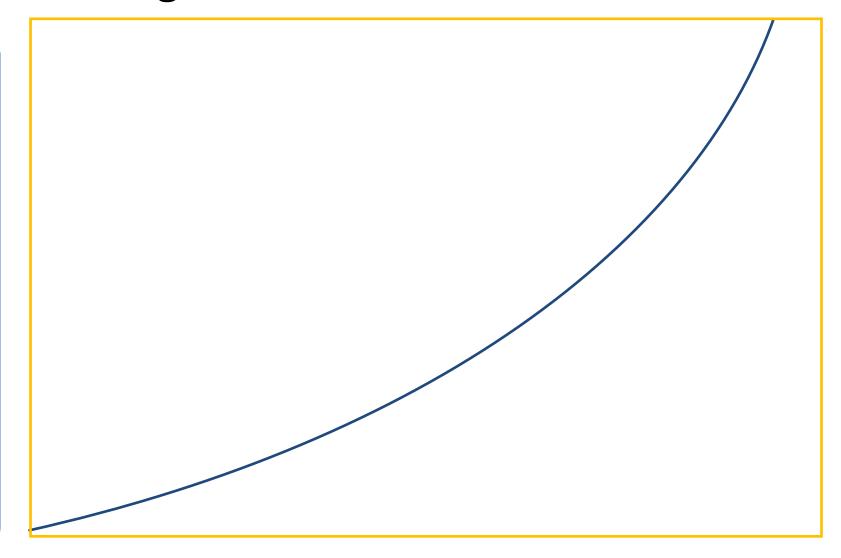
integration

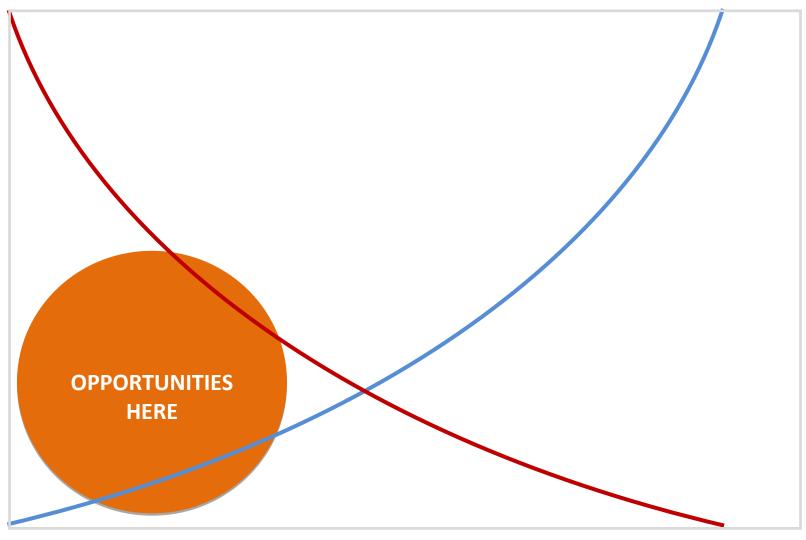


Impact

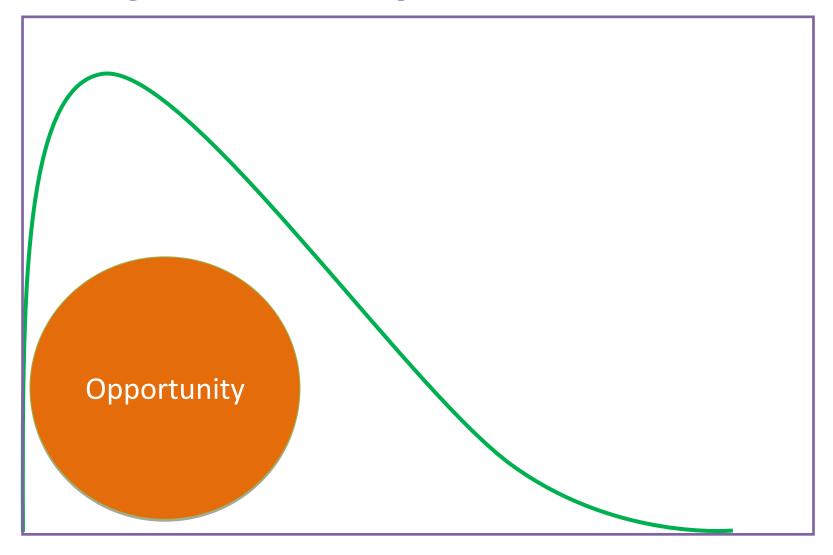


Change Cost





Integrated Design



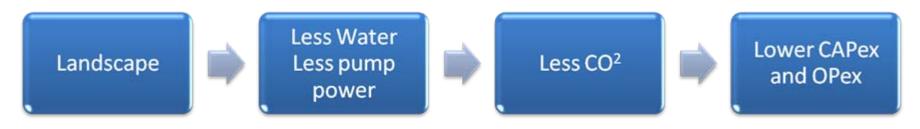
CHARRETTE







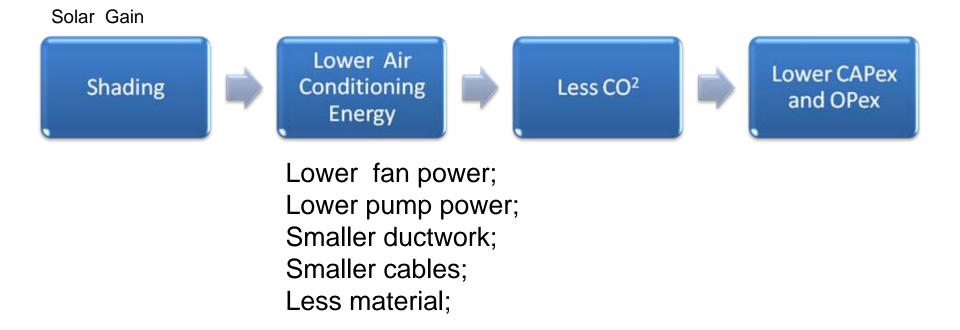




Lower Power
Smaller Pipework
Smaller cables
Smaller Tank
Less Material

Micro Climate Building Orientation Less Energy Less Pump power Less CO² Lower CAPex and OPex

Less AC power; Smaller ductwork; Smaller cable; Less material;

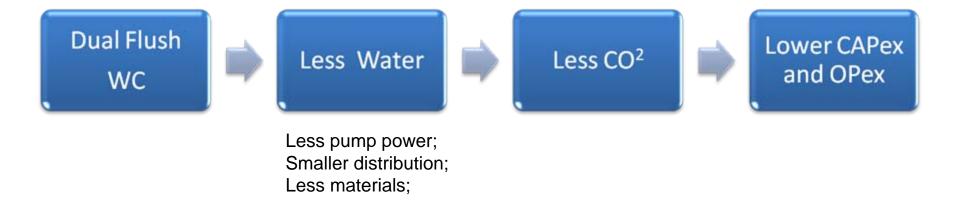




Off peak load; Small transformers; Smaller distribution; Smaller cables; Less material;



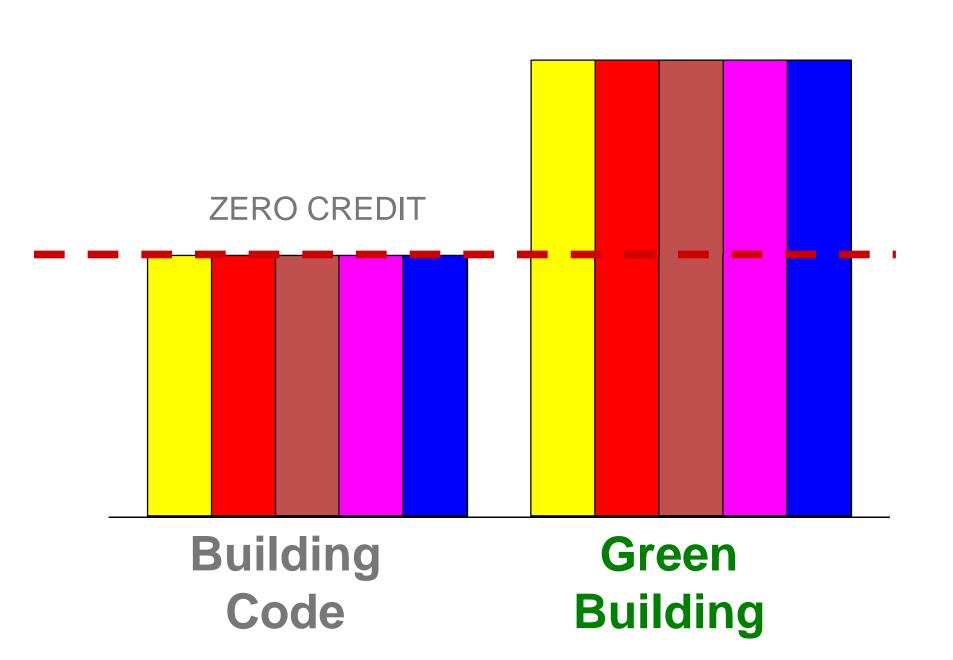
Off peak load; Smaller AC Load Smaller distribution; Smaller cables; Less materials;



CERTIFICATION



Green certification will change the competitive landscape of industries vendors and the players ""





































What is BEMM?

BEAM (Building Environmental Assessment Method) Green Building Rating System is a voluntary, consensusbased rating tool for assessing high-performance, sustainable buildings in Hong Kong.

BEAM is based on scientific principals and encourage state of the art strategies for site, water savings, energy efficiency, materials selection and indoor environmental quality.

BEAM recognizes achievements and promotes expertise in green building through a comprehensive system offering project certification, professional accreditation, training and practical resources.

It involves evaluating the building and its components over the entire life cycle of the building in order to accurately measure its economic, environmental and social costs.

Trust But Verify

FEE SCALE





FUTUREPROOF



"plan for tomorrow today!"

- John A. Herbert



future proofing

- Provide space
- Strengthen the structure
- Provide capped openings for future
 - PV panels cabling
 - Solar Water heaters piping
 - Wind Turbine cabling
 - Heat Pumps

Thank You

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