Chicago Center for Green Technology (CCGT) Strategic Plan

FINAL September, 2011

Mission

"The Center for Green Technology serves as the most comprehensive green design educational resource in the Midwest. The Center promotes and advances sustainable homes, workplaces, and communities to enhance the quality of urban life. We work to facilitate this through educational programming and training, research and demonstration, and acting as a resource network."

Vision for the Future

We envision a future where:

- CCGT is a comprehensive resource that people utilize to improve the quality of their life.
- CCGT is recognized and used as a vital resource for building professionals, business owners, governmental agencies, homeowners, and community leaders.
- CCGT remains at the forefront of sustainability by operating as a living model, demonstrating the latest advances and current trends in green building technology and operating sustainably.
- CCGT's educational programs and events extend beyond the walls of the building to include partnerships
 with universities, complementary organizations and other governmental agencies. This collaboration
 results in leading edge programs, services, and information and also allows us to leverage our technical
 and resources.
- CCGT acts as a conduit between our audiences and city initiatives and programs.

Guiding Principles

We believe that:

- Lack of awareness is the first obstacle to implementing change.
- Information and education about sustainable innovation and its benefits should be available to all.
- To incorporate sustainable principles into everyday life, it is critical to demonstrate the effectiveness of green technologies.
- Due to its dynamic nature, CCGT and its programs must stay at the forefront of sustainable innovation.
- CCGT's reputation is based in part on our ability to remain objective and neutral in our presentation of high performing green products and services.
- The CCGT recognizes that true sustainability adheres to a triple bottom line where the intersection of social, economic and environmental factors informs balanced decision-making.

Strategic Priorities, 5-year Goals and Strategies

CCGT's work will focus on the following strategic areas:

- **1) Building innovation, demonstration and monitoring** Demonstrate to the public how green building technologies and products work and what the costs and benefits are over their life cycle. Maintain facility's leading edge as much as possible by continually updating the technology of the building.
- **2) Education and awareness** *Create and deliver a cost-effective programming model that promotes the mission and meets the needs of key target audiences.* Create a destination (physical and virtual) that captivates and engages visitors, informs and educates them, meets their needs, exceeds their expectations and encourages return visits. Provide a positive user experience every time.
- **3) Organizational effectiveness and management best practices** *Effectively and efficiently advance the mission of CCGT by using best management practices that enable and support successful implementation of the other strategies.*
- **4) Capacity Building** Build sufficient capacity to operate and implement Center priorities.

Strategic	5 year goals	Strategies to achieve goals
priorities		H = highest relative priority, M = medium, L = lower
1) Building innovation, demonstration and monitoring	1.1 All green installations and materials function optimally and are being regularly maintained according to our maintenance standards.	 Implement repair/ replacement and upgrade projects (H) Engage 2FM in understanding facility vision, maintenance needs and standards (H)
	1.2 CCGT has added to the body of knowledge about LEED buildings1.3 The working relationship and	 Install monitoring and new controls on green installations systems (M) Create strategic partnerships/ sponsors for installations (M)
	responsiveness of 2FM maintenance services has improved	 Implement revolving building demonstrations (L) Create a mix of larger and smaller scale pilots (L)
2) Education and awareness	2.1 Awareness and influence of sustainability topics/issues has increased because of the principles that CCGT promotes	 Increase number of education, product and subject matter partners (H) Build and strengthen online presence, capacity and functionality (H)
	2.2 CCGT has reached new audiences; there is an increase in "non-traditional" attendees and enrollees	 Develop/refresh marketing and PR materials (M) Implement a process to evaluate and continually update course/curriculum/exhibits (M) Periodically update tours, interpretation/ signage (M)
	2.3 Visitors have a variety of activities in which to engage (tours, exhibits, resources, classes2.4 The education course mix is	 Collaborate on exhibits (M) Build a destination marketing message (L)

Strategic priorities	5 year goals	Strategies to achieve goals H = highest relative priority, M = medium, L = lower
	current, useful and relevant 2.5 CCGT remains free (or at low cost) to the general public 2.6 Accessibility and subject matter expertise is increased through online/virtual/and offsite presence	
3) Organizational effectiveness / management best practices/ center	 3.1 CCGT operates sustainably (we model what we teach) 3.2 Staff is knowledgeable, project manager-capable, and stable 3.3 Strategic plan is being implemented 	 Conduct annual performance reviews (H) Create professional development, training, leadership plans (H) Monitor implementation of strategic plan against metrics (H) Develop a sustainability dashboard for operations (M) Develop Standard Operating Procedures (SOPs) (L)
4) Capacity Building	 4.1 We are a self-sufficient operational center with adequate resources to continue operations and implement priorities 4.2 CCGT has demonstrated value to the City of Chicago through sustainable funding sources 4.3 Staff time is optimized and productive because of investment in volunteers, technology, smarter processes 4. 4 The volunteer pool is steady, trained and motivated; CCGT is seen as a desirable place to volunteer 	 Implement a visitor experience strategy (L) Implement technology operational infrastructure (H) Increase fundraising skill set (H) Write grants in several focus areas: Environment, Adult Education, Energy and Pollution Prevention (H) Develop a major donor strategy (H) Develop an advisory board (H) Develop methods to get volunteers as productive as possible (H) Monetize relationship with partners/ develop sponsors (M) Tweak volunteer practices to attract more volunteers (M) Expand internships (M)
		 Increase focus on room rental (L) Build out remaining space for classroom and/or paying tenants (L) Develop an annual report that communicates accomplishments and value (L)

5 Year Plan, Evaluation Framework and 2-Year Tactical Priorities

1) Building innovation, demonstration and monitoring – Demonstrate to the public how green building technologies and products work and what the costs and benefits are over the life cycle. Maintain facility's leading edge as much as possible by continually updating the technology of the building.

2011 - 2016 goals:

1.1 All green installations and materials function optimally and are being regularly maintained according to our maintenance standards.

- Metric 1.1.1 High maintenance standards are documented and followed.
 <u>2011 baseline</u>: 60% of systems are documented and have written maintenance plans.
 <u>5 year target</u>: 80% of installation maintenance will be documented and have written standards that are followed.
- Metric: 1.1.2 Monitored green technology systems (renewable energy, water usage, cistern, solar panels etc.) meet performance standards.

<u>2011 baseline</u>: 0% of systems are monitored <u>5 year target:</u> 80 % will be monitored in some way

1.2 CCGT has added to the body of knowledge about LEED buildings

Metric 1.2.1: Completion of pilot installations, cost-benefit studies, monitoring projects.

2011 baseline: 2.5 every 5 years

5 year target: at least 5 projects that include large scale, cost-benefit and/or monitoring

Metric 1.2.2: CCGT has hosted large, public-oriented projects that highlight building changes.

2011 baseline: 1 big "splashy exhibit or project every 5 years

<u>5 year target</u>: 1 big "splashy exhibit or project" that highlights a major renovation

1.3 The working relationship and responsiveness of 2FM maintenance services has improved

Metric 1.3.1: Routine maintenance (ex: filters, doors, toilets) is performed per CCGT expectations.
 2011 baseline: 50% completed within 3 months
 5 year target: 75% completed within 3 months

 Metric 1.3.2: Specialized maintenance (ex: solar PV or geothermal, lighting, security) is performed per CCGT expectations.

<u>2011 baseline</u>: 0%

5 year target: 75% completed within 3 months

Strategies/ priorities:

Highest priority

- Implement prioritized repair/replacement and upgrade projects
- Engage 2FM in understanding facility vision, maintenance needs and standards; conduct pilots using green cleaning materials and procedures

Medium priority

- Install monitoring and new controls on green installations systems that need them; obtain baseline measures
- Create strategic partnerships/sponsors to lower cost/subsidize installations

Lower priority

- Implement revolving (shorter time period, then transfer) facility building demonstrations
- Create a scheduled mix of larger and smaller scale pilots (including commercial plus do-it-at-home projects)

2011-2012 Tactical Initiatives and Assignments

Strategy / Tactic	Target start and completion
Implement repairs and engage 2FM	
Meet bi-weekly with 2FM to develop relationship and keep	
communication open	
Log on-going requests to building engineer; track when	
requests are completed	
Create and prioritize list of repair/upgrade/replace projects	
and conduct cost-benefit analysis report	
Conduct planning session with 2FM leadership to agree to a	
2-year prioritized list and timeline; invite 2FM leadership	
Develop project plan with 2FM to agree-to repairs/upgrades	
Monitoring and controls	
Develop a 3- 5 year list of potential monitoring,	
demonstration /sponsorship projects and create a list of	
potential vendors	
Installation partnerships and sponsors	
Create a "pitch" /presentation for vendors to sponsor	
demonstration projects	
CCGTs mission	
 CCGT's impact and visibility 	
 What is needed from vendors 	
Benefit to vendor	
The Ask	
Schedule and meeting with vendors and develop short list to	
pursue further based on level of interest	
Pilots/Demonstrations	
Develop documentation form to create record of what	

Strategy / Tactic	Target start and completion
occurs with pilots	
 Large wind turbine – feasibility study 	
 3-4 renewable technologies in action (solar- 	
thermal systems, greenhouse solar thermal	
 Solar Wall (like at Goose island) 	
Define what a "big splashy" demonstration might look	
like, including the public and education component and	
PR plan	
 Incubator space 	
 Parking lot 	
 New landscape feature, or prairie/wetlands 	
monitoring	
 Residential scale demo house 	
Kitchen re-do	
Select one to implement in 2012	

2) Education and awareness – Create and deliver a cost-effective programming model that promotes the mission and meets the needs of key target audiences. Create a destination (physical and virtual) that captivates and engages visitors, informs and educates them, meets their needs, exceeds their expectations and encourages return visits. Provide a positive user experience every time.

2011 – 2016 goals:

2.1 Awareness and influence of sustainability topics/issues has increased because of the principles that CCGT promotes

 Metric 2.1.1: Growth in # of certificates, # of enrollees in classes, # of visitors, # of new education partnerships.

<u>2011 baseline</u>: 8; 2745; 19,282; 4. <u>5 year target</u>: 150; 5000; 25,000; 10.

2.2 CCGT has reached new audiences; there is an increase in "non-traditional" attendees and enrollees

 Metric 2.2.1: Growth in # of new visitors/enrollees; # of visitors from targeted zip codes or industries.

<u>2011 baseline</u>: unknown <u>5 year target</u>: TBD

Metric 2.2.2: # of collaborations/visitors from Garfield Park area.

2011 baseline: 0

5 year target: 1 collaboration

2.3 Visitors have a variety of activities in which to engage (tours, exhibits, resources, classes)

Metric 2.3.1: Growth and variety of exhibits, classes, displays/products, hands-on demonstrations.

<u>2011 annual baseline</u>: exhibits: 3, Classes: 100, Displays: unknown (need to define if this means item category or vendor), hands-on: 0.

<u>5 year annual target</u>: exhibits: 6, classes: 150, displays: unknown, hands-on: 15.

o Metric 2.3.2: Growth in number of participants for tours, exhibits, special events.

2011 baseline: 4386 (tours); 4967 (Events including room rentals).

<u>5 year target</u>: 6000 (tours); 7000 (Events)

2.4 The education course mix is current, useful and relevant

o Metric 2.4.1: High visitor/enrollee satisfaction with course mix.

<u>2011 baseline</u>: Satisfaction, 100%. <u>5 year target</u>: Satisfaction, 100%.

• Metric 2.4.3: Center interpretation and tours are current/updated.

2011 baseline: Last update unknown; currently working on children's tour.

5 year target: Tours are updated every 2 years on schedule; add one new tour type.

2.5 CCGT remains free (or at low cost) to the general public

Metric 2.5.1: Admission cost over time is affordable for the general public.

2011 baseline: \$0.

<u>5 year target:</u> \$0 for general classes; \$10 for certificate classes, \$15 for demonstration (materials cost).

2.6 Accessibility and subject matter expertise is increased through online/virtual/and offsite presence

Metric 2.6.1: Growth in number of virtual/online resources and level of access/use.

2011 baseline (7-month cumulative): 30,781 website page views.

<u>5 year target</u>: 100,000 website page views

Strategies / priorities

Highest priority

- Increase number of education, product and subject matter partners
- Build online presence and capacity and functionality, including education options, resources

Medium Priority

- Develop/refresh marketing materials and PR; update messaging around CCGT as a destination and updates on innovation
- Develop and implement a process to evaluate and continually update course/curriculum/exhibits to meet audience needs
- Build a process to periodically update tours, interpretation/signage to remain current and accurate to changes in the building
- Collaborate on exhibits

- Develop partnerships to showcase a mix of large/"destination" exhibits, as well as smaller, local exhibits (tactics: Work with DCA or CAF for art exhibits, be a 2nd run for exhibits that show downtown)
- Collaborate with Garfield Park groups

Lower priority

 Build a destination marketing message. (Tactics: Create messages around CCAP (building as a visualization of CCAP; a place for one-stop shop); partner with CMAP ("the physical site for CCAP"), Build destination reputation through PR/mkt/" billboards")

2011-2012 Tactical Initiatives

Tactic	Target start and completion
Education classes	
Launch new GTU certificate tracks	
Establish Certificate fee	
Develop plan to additional classes to course mix	
– refreshers, advanced levels, Hands-on classes	
Sustainable sites	
Sustainable practices classes; green lifestyle Duilding asianae	
Building science	
Urban agriculture Cat input from stakeholders, CCCT	
 Get input from stakeholders, CCGT advisory council into course mix and future 	
course	
Less conservation science courses	
Add virtual courses	
Weekend classes	
Develop plan for live demonstration classes	
Create list of possible classes Establish	
materials fee	
Review course mix with Advisory Council	
Website	
Develop functional requirements document	
 "Ask the experts" feature, Virtual, clickable tools, Online resource link 	
Content requirements for pages	
Include media kit	
Write content – have beta site up by Sept 15	
Prioritize the online capabilities for the	
website (automation tasks such as room	
rental and online registration); develop cost	
benefit for funding	
External communications/PR	
Develop a communications plan	
Key audiences	
 Messages for each audience 	
Preferred communication method	

Tactic	Target start and completion
Frequency	
Increase communication about innovation at	
site "what's new at CCGT" in newsletter,	
course catalog, website, signage	
Update the printed PR brochure and expand	
circulation	
Resource Center and site interpretation, tours	
Conduct an inventory of items and categories	
on Display to create baseline	
Resource center ("facelift")	
 Place to sit and work, computers available 	
for visitors, layout	
 Updated displays; schedule something new 	
twice a year	
 Make labels, displays for homeowners 	
more clear	
 Flooring options 	
Develop plan to create 1 interactive display	
(look at getting an Explore Chicago kiosk, for	
example)	
Establish baseline for number of visitors;	
update the CCGT sign-in Sheet	
Update building tour guide and self-tour guide	
Landscaping/plant signage	
Develop children's tour and activity workshop	
Exhibits/public events/collaborations	
Reach out to DCA about exhibit collaboration	
Contact Garfield Park artists groups to explore	
possible collaborative event (possible	
fundraiser?) example: movie night	
Plan 1 vendor fair or career fair, with hands-on	
exhibits, demonstrations	
Try Energy Efficiency (weatherization,	
energy auditing, CCAP retrofits,	
weatherization contractors)	
 Pick a Sat in November (19th, 29th) 	

3) Organizational effectiveness / management best practices/ center culture -

Effectively and efficiently advance the mission of CCGT by using best management practices that enable and support successful implementation of the other strategies

2011 – 2016 Goals:

3.1 CCGT operates sustainably (we model what we teach)

• Metric 3.1.1: Sustainability dashboard targets (such as waste audits, automation) are met; Targets for sustainability targets set on an annual basis.

<u>2011 baseline</u>: 50% of targets are met or exceeded <u>5 year target</u>: 100% of targets are met or exceeded

Metric 3.1.2: Public safety strategy is in place

3.2 Staff is knowledgeable, project manager-capable, and stable

• Metric 3.2.1 : Staff turnover is low and is managed with transition and succession plans.

<u>2011 baseline</u>: each staff develops detailed job description

<u>5 year target</u>: each staff completes detailed transition and succession plans

 Metric 3.2.2: Each staff has an annual performance plan and development plan that is implemented.

<u>2011 baseline</u>: each staff develops performance plan for 2012 and meets performance expectation in 2011

<u>5 year target</u>: each staff meets or exceeds performance expectations and has completed 2 development plan items

 Metric 3.2.3 Each staff member has the expertise to successfully manage CCGT projects, demonstrated through certificates, successfully completed projects, etc.

2011 baseline: 1 major project completed per staff

<u>5 year target</u>: long term project needs list developed and each staff implements 2-3 major projects per year

o Metric: 3.2.4 Each staff member's expertise is valued but outside entities, as demonstrated by the # of external committees that CCGT staff is a member of.

2011 baseline: CCGT participates on 3 external committees

<u>5 year target</u>: 6+ external committees

3.3 Strategic plan is being implemented

- Metric 3.3.1: Strategic plan's metrics are being tracked annually
- o Metric 3.3.2: Strategic plan is reviewed and updated annually

Strategies/ priorities:

Highest priority

- Conduct annual performance reviews for all staff
- Create professional development plans, training plans, leadership plans for each staff member and ensure resources (time off, class tuition, assignments as city/topic liaisons etc.) are available to implement development plans
- Monitor implementation of strategic plan against metrics

Medium priority

- Develop a sustainability dashboard for operations:
- Increase level of recycling, composting, solid waste reduction
- Develop a building –wide purchasing policy for all tenant

Lower priority

- Implement a visitor experience strategy
- Develop Standard Operating Procedures (SOPs) for all operational processes
- Our procedures are documented Building O&M guide is updated

2011-2012 Tactical Initiatives and Ownership

Tactic	Target start and completion
Staff development	
Submit monthly status reports, with both on-	
going and strategic initiative status	
Create a 9-month development plan for each staff	
member with 1 professional development goal	
Conduct a formal, documented performance	
review with each staff member by Dec 31, 2011	
Sustainable operations	
Conduct and complete the LEED process for	
waste reduction, sustainable purchasing etc.	
Safety	
Develop safety plan and options	
Visitor experience	
Add seating and areas for computer use	
Develop a "visitor experience/ hospitality"	
strategy for the site	
 Explore use of a receptionist instead of a 	
security guard	
 Create scripts for receptionist/security guard 	
 Create a visible building directory in lobby 	

4) Capacity Building -- Build sufficient capacity to operate and implement Center priorities

2011 - 2016 Goals:

4.1 We are a self-sufficient operational center with adequate resources to continue operations and implement priorities

• Metric 4.1.1: Growth in external funding through grants.

2011 baseline: 0

<u>5 year target</u>: \$150 – 200K/year revenue from unrestricted grants

o Metric 4.1 2: Growth donated resources, sponsorships etc.

<u>2011 baseline</u>: <5%

<u>5 year target</u>: > 5 % of total revenue and 10% of costs provided by donations, in-kind, sponsorships

Metric 4.1.3: # of grants actively sought.

2011 baseline: 0

<u>5 year target</u>: 3 grants written per year

Metric 4.1.4: Earned revenue is a growing part CCGTs funding.

2011 baseline: 0 5 year target: TBD

4.2 CCGT has demonstrated value to the City of Chicago through sustainable funding sources

Metric 4.2.1: Increase in the resources and visibility the City brings to bear to CCGT.

2011 baseline: 0

5 year target: 20% of operating budget

Metric 4.2.2 Increase in the number of sponsors and major donors.

2011 baseline: 0

<u>5 year target</u>: xx% of operating budget (TBD)

4.3 Staff time is optimized and productive because of investment in volunteers, technology, smarter processes

Metric 4.3.1: % of staff time spent on strategic priorities vs. operational issues.

2011 baseline: unknown 5 year target: 70 %

• Metric 4.3.2: Staff size is adequate to perform work load.

<u>2011 baseline</u>: 3 FT staff <u>5 year target</u>: 4 FT staff

4. 4 The volunteer pool is steady, trained and motivated; CCGT is seen as a desirable place to volunteer

o Metric 4.4.1 : Growth in volunteers, volunteer satisfaction surveys.

<u>2011 baseline</u>: 100% satisfied <u>5 year target</u>: 100% satisfied

Strategies/priorities:

Highest priority

- Increase fundraising skill set, acumen; collect more Center data for use in grants
- Write grants in several focus areas: Environment (built environment, green building, healthy homes), Education (continuing adult education, jobs training, underserved audience) Energy (renewable energy technologies, energy retrofits, CCAP commitment) and Pollution Prevention (storm water, green infrastructure)
- Operations technology infrastructure is in place, such as online registration, website
- Develop a major donor strategy; look for a multi-year significant gift or revenue stream
- Develop an advisory board to increase reach and connections
- Develop methods to get volunteers as productive as possible in a very short time

Medium priority

- Monetize relationship with partners/develop sponsors
- Tweak volunteer practices to attract more volunteers
- Expand internships

Lower priority

- Increase focus on room rental
- Build out remaining space for classroom and/or paying tenants
- Develop an annual report (as part of strategic plan monitoring) to demonstrate impact to the City and the public

20111-2012 Tactical Initiatives and Ownership

Tactic	Target start and completion
Funding – Grants	
Work with CDOT to identify restricted and	
unrestricted grants and create grants calendar,	
list of prioritized needs in areas of environment,	
education, energy and pollution prevention	
Develop boilerplate that can be used in grants:	
history of site, mission, description of what CCGT	
is and does, budget template; write descriptions	
of each major program area	
Funding – non-grant (earned revenue / sponsorship)	
Develop a sponsorship strategy and multi-year	
plan with CDOT – what types of sponsors	

Tactic	Target start and completion
(naming, underwriting in-kind, other), potential	
sponsors. Identify a few potential major sponsors;	
target underwriting and naming potential; talk to	
CEF and companies that do this (like CW	
Corporate Council) and see what it takes to	
attract sponsors	
Develop materials for potential sponsor/donors,	
including a list of "asks" / needs for grants,	
sponsors, etc. – both operational and project-	
based	
Host a green homeowner open house or fair in	
Nov 11 – with Energy Efficiency focus	
Host a quarterly movie night with	
environmentally themed movies	
Complete room rental plan, including price	
adjustments and advertising; decide on	
recommendations to implement	
Reach out to non-profits, chambers of commerce,	
neighborhood associations about availability of	
rental space	
Volunteers	<u> </u>
Rework volunteer orientation, Implement a	
volunteer mentor program, give tours to new	
volunteers	
Create volunteer productivity aids, including	
scripts for volunteers to answer the phone or	
email – to give correct information	
Pilot new recognition for volunteers around the	
technology/center/innovation, develop better job	
descriptions and titles , include a "docent" level	
for experienced volunteers	
Develop a list of volunteer-capable projects and	
assign at least one project to each volunteer	
("give them a goal")	
Technology upgrades	
Complete online registration project	
Complete facility technology upgrades	
Advisory Council	
Develop a clear objective /charter for advisory	
council and a "job description" for an advisory council participant (scope, skills, expectations,	
benefits to them	
Develop a list of potential candidates for advisory	
council; talk to Karen about chairing it	
Council, talk to Nateri about Chairing it	

Strategic Planning Process

The CCGT strategic planning process started in February 2011 and was completed in August 2011. The process included a review of the 2006 strategic plan, an updating of the current state analysis, conducting surveys with volunteers, visitors, GTU students and organizations who rented rooms, participating in a series of meetings to discuss strategy and brainstorm on tactics, and the gathering of best practices and innovative ideas from the City and other organizations.