

PROJECT ONE: Part B

Connecting Theory and Practice



“There is really no such thing as a “regenerative project” – nor can there be – an object by itself cannot be regenerative – it’s about the relationship between the objects and how they are continually evolving that makes them regenerative. Regeneration is a process of engagements with the purpose of healing living systems...” - Bill Reed, *Regenerative Trajectory*

Sustainability Assessment: Integrating Parts A+B

Due: Thursday, October 13, 2011

Project One: Parts A + B: Teams are asked to integrate Parts A+B of the *Sustainability Assessment* for your local organization and their facility and site. Teams are asked to develop a presentation to illustrate the findings of your client interview, on-site evaluations, and assessment of potential sustainability indicators and “calculations, metrics, and soft measures” relevant to the site context and facility. Project One will be used to inform development of Project Two, a proposal for *Regenerative Design Interventions* to improve sustainability. See details on pages 2-3 for Part B requirements.

Week 4-5: Further develop Parts A +B as a final presentation. Work through the Calculations, Metrics and Soft Measures and develop Key Relationship/Connectivity Diagrams to illustrate your project findings.

Week 6: Finalize Project One and present to client.

1. Refine Purpose + Essence Indicators

Refine your preliminary set of (7) project-specific “Purpose + Essence Indicators” from Part A (see Workbook Tab 01-Purpose + Essence). The project “Purpose + Essence” can be defined as the project + client “mission, goals and drivers.” The “Purpose + Essence Indicators” should extend deep into the intrinsic reasons for your client organization’s existence so that the “soul of your project” can be connected with the other “General Indicators, Calculations, Metrics and Soft Measures” across the 8 Project Categories listed on page 2. Your project can find inspiration and draw from *any source* in developing your specific “Purpose + Essence Indicators” (including indicators already residing in the workbook; guidelines such as the Living Building Challenge, LEED, MSBG; or those developed by the team).

- *Purpose: The reason for which something is done or created or for which something exists.*
- *Essence: The intrinsic nature or indispensable quality of something, especially something abstract that determines its character; something that exists, especially a spiritual or incorporeal entity.*

2. Develop General Indicators, Calculations, Metrics and Soft Measures

Project teams are asked to continue to expand their cursory assessment and audit of the facility and site to consider broader regional and neighborhood influences across the 8 Project Categories. Teams will work with the “Indicators, Calculations, Metrics and Soft Measures” identified in the Project One Workbook to complete their Sustainability Assessment. Use the “Indicators” as background information for your work and give them general consideration as you develop and document your assessment. Complete the *required* and *team chosen* “Calculations, Metrics and Soft Measures” to develop a “rough analysis” of your project site and its potential across the 8 Project Categories. You will develop a PDF-presentation using *one* slide to illustrate *each* “Project Category,” including graphics, text, and a summary of your “Calculations, Metrics, and Soft Measures”.

Project Categories: (16) Calculations, Metrics, and Soft Measures Required:

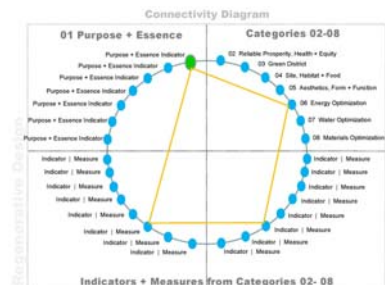
Please review the Project Workbook which identifies the 8 Project Categories. Within each of the 8 Project Categories there are “Indicators” and “Calculations, Metrics, and Soft Measures”. Teams are asked to evaluate a *minimum* of (2) “Calculations, Metrics, and Soft Measures” for each of the (8) Categories [16 total across 8 categories; with (8) required calculations and (8) chosen calculations – see table below]:

Project Category	Calculation, Metrics, and Soft Measures
01- PE Project Purpose + Essence	Team to <i>Propose</i> Calculations, Metrics or Soft Measures for the Project Purpose + Essence Indicators developed by the team 1. Team Choice 2. Team Choice
02 - RHE Reliable Prosperity, Health + Equity	1. Team Choice 2. Team Choice
03 - GD Green District	1. REQUIRED Soft Measure: Identify a Neighborhood Zone for your project, it's key components and scattered work opportunities 2. REQUIRED Soft Measure & Metric: Identify Transit Access - Roughly for the Green District with increasing detail down to the site scale
04 - SHO Site + Habitat	1. REQUIRED Calculation: Roughly estimate the % Hardscape and Vegetation 2. Team Choice
05 - AFF Aesthetics, Form + Function	1. REQUIRED Soft Measure: Explore Height, Orientation and Massing of the Building 2. REQUIRED Soft Measure: Explore and Identify South-facing and Positive Outdoor Space opportunities
06 - EO Energy Optimization	1. REQUIRED Calculation: Explore both a <u>60%</u> reduction in Non-Renewable Energy Use AND <u>Net Zero</u> Energy Use 2. Team Choice
07 - WO Water Optimization	1. REQUIRED Calculation: Estimate the Landscape Water Use 2. REQUIRED Calculation + Soft Measure: Explore both a <u>50%</u> reduction in total water AND <u>Net Zero</u> Water Use (Building and Landscape)
08 - MR Materials and Resources	1. Team Choice 2. Team Choice

Use

3. Create Connectivity Diagram(s): Key Relationships

- Teams are asked to develop at *least* (2) “Connectivity Diagrams” exploring relationships and connections between project categories, indicators, calculations, metrics, and soft measures. Use this diagramming tool to help your team expose key issues and relationships you may want to highlight in your presentation. See the example “Connectivity Diagram” on page 4. Illustrate a minimum of (4-6) key relationships in each of the “Connectivity Diagrams”.



PROJECT REQUIREMENTS: Final Submission Shortlist**Week 6: Part A+B Due: Thursday, October 13**

Upload your PDF to Moodle by 2:00 p.m. in the “Project One” folder (bring a back-up on a thumbdrive).

Please prepare a final PDF presentation of “Project One: Parts A+B” using the “*Graphic Template: Part B*” provided on Moodle. Teams will have approximately 10 minutes to present and 20 minutes for discussion. Please include the following:

1. PDF Presentation: Develop an *11-12-Slide PDF presentation* using photos, plans, diagrams, graphics, and text to convey your findings. Organize and ‘number’ your slides as outlined below:
 - Title Page: Project Title, Client, Location, and Team Members (photos or diagrams as appropriate)
 - (01) Purpose + Essence: Project Unique Indicators + Measures, Project Overview and Summary
 - (02) Reliable Prosperity: Regional Influence Plan (Diagram), Indicators + Measures Results
 - (03) Green District: Green District Plan (Diagram), Indicators + Measures Results
 - (04) Site + Habitat: Site Plan (Diagram), Indicators + Measures Results
 - (05) Aesthetics, Form + Function: Site Plan | Section (Diagrams), Indicators + Measures Results
 - (06) Energy Optimization: Energy Concepts, Indicators + Measures Results
 - (07) Water Optimization: Water Concepts, Indicators + Measures Results
 - (08) Materials + Resources: Materials Concepts, Indicators + Measures Results
 - (09-10) Key Relationships: Use the (2) Connectivity Diagrams, other graphics as appropriate, and a written summary to illustrate the findings of your sustainability assessment. Include a brief written summary of your sustainable design issues and priorities. Finally, how do the topics relate and integrate across issues, scales, or other design considerations?
 - Bibliography: All quotes, photos, and drawings from other sources should be referenced (i.e. Source: author, book or journal, publisher, date, page).
2. (2) 11”x17” color hardcopies: Print (2) 11”x17” hardcopies of your presentation (for pin-up/grading and your client).

Grading Criteria (30% of total grade; 300 points)

The project will be graded accordingly:

1. Final Presentation 70% @ 210 Points
 - Clarity and accuracy of case study research, critique, and summary
 - Overall quality and thoroughness of case study assessment
 - Supporting research, citations, and bibliography
2. Craft of presentation and graphics 30% @ 90 Points
 - Clarity and thoroughness of graphics and presentation slides
 - Overall quality of presentation

EXAMPLE CONNECTIVITY DIAGRAM (see “item 3” above)

A PowerPoint “Connectivity Diagram Template” is available on MOODLE with a brief tutorial.

