

RUC Portfolio

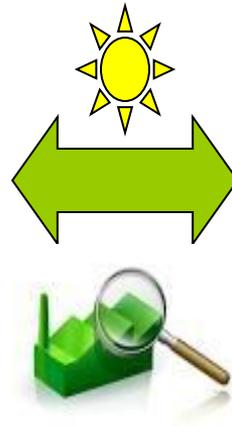
All rights reserved @ 2016-2017. This document highlights that right on time greening and sustainability can be achieved via AOEC & SSHGIEC's conceptual entity called the "Site Ingenuity Centre".

The Site Ingenuity Centre houses an interrelated framework of know-how, insights, points to be noted, assessments, forms, reports and templates that can be used to green today's resource utilization experience and also design, develop, commission, operate and maintain sustainable sites.

RUC Portfolio



Green hosts



Green sites or entities or identities

RUC Portfolio

- **1. Site Ingenuity**

- Today what is most needed is site ingenuity for focused & green practices in on-site systems and for the various on-site needs such as high performance architecture, building construction, renovation or repairs, energy management, electrical repairs, plumbing, water management, waste management, supply chaining and in general facility management.

AOEC's "Towards Sustainability toolkits" state that a site, location or facility can be guided by a A-Z EACC Ingenuity Portfolio, with data recording, consolidation and feedback for such expectations such as regular status data, benchmarked performance data, failure data, risk data, threat data, vulnerability data and existing trends for EACC Theory Profilometers.

- Here *EACC stands for Ecosystem Afforestation and Conscious Conservatism Practices.
- AOEC calls the A-Z EACC Ingenuity Portfolio as the Resource Utilization Conservatism (or RUC) Portfolio. The Portfolio in essence considers that a site can be independent (government), or independent (community), or independent (recreational), or independent (commercial), or independent (residential), or independent (COMBO - both commercial & residential), or independent (public or private services infrastructure), or independent (security services infrastructure), or independent (specific purpose), or independent (temporary), or part of a larger cluster.

RUC Portfolio

- **2. Scope of Site Ingenuity**

Module	Nature of Site Ingenuity
1. Awareness and adherence to green practices in on-site systems	Inter-related How-to(s), assessment tools, training & induction modules
2. Assessment of site or location	Inter-related How-to(s), assessment tools, training & induction modules
3. Legal framework planning and establishment	Inter-related How-to(s), assessment tools, training & induction modules
4. Land-use or space-use planning	Inter-related How-to(s), assessment tools, training & induction modules
5. Building construction, expansion, repair or renovation	Inter-related How-to(s), assessment tools, training & induction modules
6. Utilization of energy	Inter-related How-to(s), assessment tools, training & induction modules
7. Water management	Inter-related How-to(s), assessment tools, training & induction modules

RUC Portfolio

- **2. Scope of Site Ingenuity (continued)**

Module	Nature of Site Ingenuity
8. Waste management	Inter-related How-to(s), assessment tools, training & induction modules
9. Chemicals utilization	Inter-related How-to(s), assessment tools, training & induction modules
10. Supply chain management	Inter-related How-to(s), assessment tools, training & induction modules
11. Quality indicators for sustainable sites and buildings	Inter-related Templates that can be used in commissioning, operating and maintenance exercises

RUC Portfolio

- A-Z EACC Ingenuity Portfolio will include natural resources, man-made resources and ASSET resources. The focus will be on elements that can affect performance and sustainable built up environments, such as:
 - **Common elements for systems**
 1. Air conditioners, filters, heaters
 2. (Power intensive or high utilization) Appliances
 3. Chimneys
 4. Computers and network connectivity systems
 5. Equipment that is critical for the facility or for facility management
 6. Equipment that is critical for IT Service Management
 7. Equipment that is critical for life saving, healthcare or nursing
 8. Humidity regulators
 9. Refrigerators, freezers
 10. UPS

RUC Portfolio

- **Common elements in any site**
 - 1. Artificial Ponds or Lakes
 - 2. Basements
 - 3. Borewells
 - 4. Borewell Water
 - 5. Buildings
 - 6. Cooling plants
 - 7. Diesel Sets and generators
 - 8. Doors, air vents and window frames
 - 9. Drainage Systems
 - 10. Drip Irrigation Systems
 - 11. Driveways
 - 12. Electrical systems, fittings and appliances
 - 13. Emergency Drainage Systems
 - 14. Environmental Management Systems
 - 15. Equipment for facility or building management
 - 16. Equipment for Fire Protection and Safety

RUC Portfolio

- **Common Elements in any site (continued)**
- 17. Facilities
- 18. Gardens and implements
- 19. Lifts
- 20. Lightning arrestors and Thunderstorm protection systems
- 21. Paints, Distemper etc
- 22. Public Distribution System (PDS) Water
- 23. Piped Gas Systems
- 24. Plumbing systems and fixtures
- 25. Pumps and Motors
- 26. Overhead Lines
- 27. Rainwater Harvesting Systems
- 28. Solar Photovoltaic Panels
- 29. Solar Water Heaters
- 30. Substations
- 31. Swimming Pools
- 32. Tanks for water storage

RUC Portfolio

- **Common Elements in site (continued)**
- 33. Terrace and Parapets
- 34. Transformers
- 35. Treatment plants
- 36. Waste Management systems
- 37. Water Management systems
- 38. Water Sprinkler Systems
- 39. Wind-break fences and Shelter belts
- 40. (Sized down or micro) Wind turbines/Windmills

This list is not complete and will evolve as urban and rural landscape planners deal with climate change mitigation issues. Though this classification and assigning of importance is fairly well-known to people today, the RUC Portfolio introduces the concept of EACC Theory Profilometers that can help achieve infrastructure provisioning, remedial action for risks and hazards and/or regulation of any increase in demand or drop in utilization.

RUC Portfolio

ASSET resources

- This can include natural resources or man-made resources that are considered critical for Time, Motion and Scale studies for climate change mitigation and sustainable development related unification.
- The RUC Portfolio states that an ASSET can be termed as a Living Fossil & Conservative Entropy element.
- The Time, Motion and Scale studies could include Living Fossil & Conservative Entropy Membership (LF & CEM) tagging, where this stands for tagging an ASSET resource for its performance for a new relation or service (called HGI Expectancy or Millennium Viewpoint).
- Added to this, it is expected that sites with ASSET resources will need to sign up for a **green lifecycle membership** with a Relief and Rehabilitation Centre, so as to proactively manage prioritization, decision-making and interventions for protecting their ASSETs.

Examples of ASSET resources

TBD

RUC Portfolio

- The industry is working on technology, assessment methodologies and calculators that help people calculate utilization, costs, and carbon footprints, but there is no grading being developed to help people understand how the uncontrolled utilization of on-site resources will cause an impact on sustainability, increase environmental pollution, or lead to more diverse risks.
- The vision for the RUC portfolio is based on the fact that a rating (grade) for a site is easier for the common man to associate with, as compared to any estimation for a carbon footprint.
- The vision for the RUC portfolio will be assisted by a Green Identify management programme, that identifies that enterprises (Green hosts) need to incorporate a Coverage Talk section and Future Criteria Creation provision to help consumers, or customers or people understand how they can become green identifies or entities while utilizing their solutions, systems, products, services and tools.

RUC Portfolio

- The EACC Theory Profilometer will include the following (plain to understand) attributes [1-4] and indicators [5-7]:
 - 1. Zone emphasis for EACC (why necessary or why not recommended in the location of site)
 - 2. Role in climate change mitigation (at the location of site)
 - 3. Hazards possible (if not commissioned properly, or if not measured for performance, or if not utilized properly, or if not monitored for failure patterns)
 - 4. Vulnerabilities caused (if performance not within acceptance limits for location of site)
 - 5. Meter for number being used on-site and estimate for threat or disaster causing probability
 - 6. Availability of self-help tools (to improve awareness, sensitization and utilization so as to reduce threats, control carbon footprints and ensuing impact to the environment)
 - 7. Grade (or rating) based on inspection or communication for Design Elements Conformity, High Performance Expectations, Advanced High Performance Expectations and Due Care Strategies

RUC Portfolio

- The EACC Theory Profilometer is not a ready to access knowledge base.
- It is a theory that recommends the utilization of certain forms or templates at each site, to help control impact to the environment, the community or the consumer itself.
- The forms or templates completed at each site can be submitted to Relief and Rehabilitation Centres (Green hosts), where they are assessed by a team so that the sense of proportion, sense of awareness, sense of networking and empowered independence at each site is sustainable.
- The forms or templates completed at each site can develop a showcase that makes sites more earthquake safe, tsunami safe, tornado safe, cyclone safe, flood safe and adept in controlling impact due to other disasters and even climate change.
- We are used to subscribing to information like weather forecasts, satellite images etc, the EACC Theory Profilometer can step ahead to report a EACC showcase, more so the resources mentioned in this document could be extended to include ASSETs that are important for a location, neighborhood, region, state etc. As EACC stands for afforestation as well, the Profilometer can make it easier to manage and improve landscapes.