

Document Classification	Operational Instruction
Document Title	Overall Energy Approach (OEA)
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Workstage	:	1 to 4
Section Code	:	Environmental Requirements
Subject	:	Overall Energy Approach

Objective

1. The objective of the instruction is to promulgate the "Overall Energy Approach" (OEA) to project staff for their adoption and implementation into their projects.

Background

2. The department has been continuously pursuing environmental initiatives in projects to enhance energy efficiency of the buildings and the quality of the built environment for safety, comfort and well-being of the occupants.
3. In order to furnish a holistic and systematic way in achieving air quality in built environment while maintaining the energy efficiency of the building, the OEA is devised according to our proven experience gained from the pilot study projects.
4. The purpose of the approach is to minimize energy consumption of a building by means of various energy recovery systems such that certain proportion of the hitherto wasted energy can be recovered for further utilization in providing better air quality for the built environment as shown in Annex A.

Application

5. Implementation of the OEA is required for all ArchSD projects and for all contract values and types including Design & Build, Quotation and Works Order.

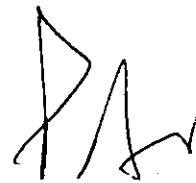
Design Considerations

6. The project team shall make due considerations of the following design objectives encompassed in the OEA and devise suitable application(s) in the design of the project:-

- Minimize energy transfer across the building envelope
- Improve air tightness of the building envelope
- Reduce energy consumption of the services installation
- Recapture and reuse the waste energy of the building where practicable or as much as possible
- Actively explore and adopt renewable and clean energy
- Provide effective ventilation and air-conditioning system
- Provide active air treatment system where practicable or as much as possible

Implementation of OEA

7. With immediate effect, the Project Team Leader with the assistance of the project team members shall ensure that OEA is adopted and implemented in the design of the project. All the design considerations shall be incorporated in the Project Environmental Design Submission and submitted to the Project Design Vetting Committee for checking and endorsement.



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