



*green energy - green architecture - green projects*

### *EnviroMinds:*

- *What we do*
- *The tools we use*
- *How we approach projects*
- *Our fees*

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## Fees 2008

### Typical Engineering Firm Fees (Ref: [www.ecsa.co.za](http://www.ecsa.co.za))

Typically engineering firm time based fees are:-

- Director (Senior Engineer) – R970 p/hr excl VAT
- Professional Engineer – R710 p/hr excl VAT
- Junior Engineer – R490 p/hr excl VAT
- Support Staff (CAD Technicians etc) – R270 p/hr excl VAT

### EnviroMinds Engineering Fees

EnviroMinds time based fees are:-

- System design and consulting – R500 p/hr excl VAT
- 3D modeling & drawings – R250 p/hr excl VAT
- Travel (R250 minimum): – R2.50 p/km incl VAT
- Architectural design analysis: see fees below

Site visits are charged at consulting rates.

For percentage based fees we charge according to standard ECSA guidelines as published in the relevant Government Gazettes.

### EnviroMinds Architectural Fees (Ref: [www.sacapsa.com](http://www.sacapsa.com))

EnviroMinds Architect fees are:-

Cost of project	Fee (Base +% of Cost)
R1 < R480 000	R0.00 + 12.5%
R480 001 < R960 000	R12 000 + 10.0%
R960 001 < R1 920 000	R36 000 + 7.50%
R1 920 001 < R3 840 000	R40 800 + 7.25%
R3 840 001 < R7 680 000	R50 400 + 7.00%
R7 680 001 < R15 360 000	R69 600 + 6.75%

### EnviroMinds Architectural/Engineering Analysis Fees

Passive design/software analysis (excluding Architect fees):

Cost of project	Fee (Base +% of Cost)
R1 < R480 000	R20 000
R480 001 < R960 000	R20 000
R960 001 < R1 920 000	R20 000
R1 920 001 < R3 840 000	R20 000 + 0.50%
R3 840 001 < R7 680 000	R20 000 + 0.50%
R7 680 001 < R15 360 000	R20 000 + 0.50%

## ***Sustainable Energy System Design and Installation***

### ***What we do***

Our extremely capable engineers provide quality information to our clients, enabling good energy management and the ability to plan a feasible step-by-step switch-over to the use of clean fuels/resources.

Core services offered are:

- Reduction of consumption; energy audit and energy efficiency implementation
- Switch to cleaner fuels; design and installation of sustainable energy systems including but not limited to:
  - Solar
  - Wind
  - Hydro
  - Biofuels
- Feasibility studies for medium to large sustainable energy and carbon reduction projects.

We are capable of supplying and installing the majority of recommended technologies specified by our engineering staff.

We are also agents for various products appropriate to the Southern African energy situation.

### ***Analysis and design tools used***

- Engineering background and experience
- Weather Database; national and international
- Data loggers and other onsite hardware
- System Design software
- 3D modelling (Solid Edge, Ecotect, ArchiCAD)

### ***Typical project timeline***

Stage 1: Assessment and Definition of the project

Identify, question and quantify the performance requirements of the project.

Stage 2: Desktop Assessment 1

At our offices we conduct a desktop assessment of the site's likely resources with respect to the Client's energy requirements; we use an extensive database of technologies in conjunction with a database of the site's likely macro conditions.

Stage 3: Onsite Assessment

We travel to the Client's site where we assess the findings of the Desktop Assessment and investigate any other potential energy resources. In addition, we can also conduct a walk-through audit of the site where we can recommend ways in which to reduce the amount of energy consumed/required.

Stage 4: Technical Documentation

Report on stages 2 and 3.

Recommend path to achieving energy sustainability/independence based on sound engineering principles and calculations.

Stage 5: System Design

Design the systems approved by the Client in Step 4.

Stage 6: System Installation

Install and commission the systems designed in Step 5.

Stage 7: Maintenance

Maintain the systems installed in Step 6.

***EnviroMinds Engineering Fees***

EnviroMinds time based fees are:-

- System design and consulting – R500 p/hr excl VAT
- 3D modeling & drawings – R250 p/hr excl VAT
- Travel (R250 minimum): – R2.50 p/km incl VAT
- Architectural design analysis: see fees below

Site visits are charged at consulting rates.

For percentage based fees we charge according to standard ECSA guidelines as published in the relevant Government Gazettes.

# ***Architectural Design***

## ***What we do***

Sustainable building techniques have come a long way over the last few decades.

Modern architects, with help from specialist consultants and analysis software, have the capability to design energy efficient, ergonomically correct and aesthetically beautiful structures that provide naturally luxurious living/working conditions for their inhabitants whilst minimising the impact on our environment.

Recognising the importance of this collaboration, EnviroMinds is applying this approach for structures in all sectors (residential, commercial and industrial)

EnviroMinds have also established a large database of green building products, which we utilise to minimise environmental impact whilst maintaining structural and aesthetic integrity.

EnviroMinds exercises a holistic approach to sustainable building design, incorporating all of our design principles:

- Respect of land
- Wise use of:
  - materials
  - resources
  - technology
- Conservation of energy
- Conservation of water
- Ergonomic design

By applying these principals, buildings behave in ways similar to living ecosystems, resulting in a non-toxic environment optimized to achieve physical, mental and social well being.

## ***Typical Meeting Itinerary***

1. Introduction; Client and Design Team
2. Brief; Client details regarding function, location, size and budget.
  - 2.1.1 How will the project be used; does the Client have specific ideas on how to translate activities into spaces and square footage?
  - 2.1.2 Has the site been chosen or will this also be a subject of discussion with the Team?
  - 2.1.3 What are the Client's overall aspirations for the project; aesthetic, emotional and practical?
  - 2.1.4 Has the Client decided upon a schedule and budget?
3. EnviroMinds Ethos; the principles by which EnviroMinds operates
4. Services; description of services offered by Team
5. Conceptual Presentation; Client and Team to go through presentation
6. Feedback; Client and Team to give feedback regarding respective interests, including:
  - 6.1 Who will be making the critical decisions; the Client alone, Client's family, or a committee of some sort?
  - 6.2 Where will the resources come from to create and operate your project?
  - 6.3 Do you have previous experience with design and construction? If so, in what ways were you successful, and was the experience in any ways disappointing?

7. Appraisal and Definition

**EnviroMinds Architectural Fees (Ref: [www.sacapsa.com](http://www.sacapsa.com))**

*EnviroMinds Architect fees are:-*

Cost of project		Fee (Base +% of Cost)	
R1	< R480 000	R0.00	+ 12.5%
R480 001	< R960 000	R12 000	+ 10.0%
R960 001	< R1 920 000	R36 000	+ 7.50%
R1 920 001	< R3 840 000	R40 800	+ 7.25%
R3 840 001	< R7 680 000	R50 400	+ 7.00%
R7 680 001	< R15 360 000	R69 600	+ 6.75%

## ***Engineering Architectural Analysis***

### ***What we do***

We are appointed as specialists in addition to the conventional design team and do not replace or take over any role or responsibilities of any of the other consultants.

Typically we are appointed during stage 1 to assist the architect in exploring the possibilities, opportunities and challenges in the design.

We then assist in establishing applicable overall strategies. These strategies are then coordinated with the rest of the design team.

### Aspects of Analysis

- Shadows & Reflections
- Shading design
- Solar Analysis
- Lighting Design
- Right-to-light
- Acoustic analysis
- Thermal analysis
- Resource management

### ***Analysis and design tools used***

- Engineering and architectural background
- Software and simulation (Solid Edge, Ecotect, DaySIM, Radiance, HEED etc.)

### ***Typical project timeline***

Stage 1: Assessment and Definition of the project (5%)

Identify, question and quantify the performance requirements of the project.

Stage 2: Conceptual Design (35%)

Establish applicable design strategies

Stage 3: Design Development (35%)

Quantify and qualify the applicable design strategies and assist architectural design development coordinate the strategies with the rest of the consultants

Stage 4: Technical Documentation (15%)

Report on stages 2 and 3.

Assist in finalizing dimensional and material selection in the architectural design applicable to the agreed strategies.

Stage 5: Contract Administration and Inspection (10%)

Support in transferring concept ownership to the contractor, decision making around on site design changes, reviewing commissioning information

Stage 6 – Post occupation Evaluation (project specific)

Determine the performance of the actual building compared to that of the design.

### **Typical Meeting Itinerary**

8. Introduction; Client and Design Team
9. Brief; Client details regarding function, location, size and budget.
  - 2.1.5 How will the project be used; does the Client have specific ideas on how to translate activities into spaces and square footage?
  - 2.1.6 Has the site been chosen or will this also be a subject of discussion with the Team?
  - 2.1.7 What are the Client's overall aspirations for the project; aesthetic, emotional and practical?
  - 2.1.8 Has the Client decided upon a schedule and budget?
10. EnviroMinds Ethos; the principles by which EnviroMinds operates
11. Services; description of services offered by Team
12. Conceptual Presentation; Client and Team to go through presentation
13. Feedback; Client and Team to give feedback regarding respective interests, including:
  - 6.4 Who will be making the critical decisions; the Client alone, Client's family, or a committee of some sort?
  - 6.5 Where will the resources come from to create and operate your project?
  - 6.6 Do you have previous experience with design and construction? If so, in what ways were you successful, and was the experience in any ways disappointing?
14. Appraisal and Definition

### **EnviroMinds Architectural/Engineering Analysis Fees**

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R7 680 001 < R15 360 000	R20 000 + 0.50%

#### *Cost of project*

1. Percentage of Cost of the Work; compensation is calculated by applying an agreed-upon percentage to the estimated or actual cost of the work.
2. Square Meterage; compensation equals the square meterage of the structure multiplied by a pricing factor.