Aims and objectives of EIA

EIA can:

- modify and improve design
- . ensure efficient resource use
- enhance social aspects
- identify key impacts and measures for mitigating them
- inform decision-making and condition-setting
- avoid serious and irreversible damage to the environment
- . protect human health and safety

Environmental impacts

- . type and nature
- magnitude
- . extent
- . timing
- . duration
- uncertainty
- . reversibility
- . significance

Integration within EIA

EIA process addresses the following environmental effects:

- . biophysical and resource use
- social and cultural
- health and safety
- economic and fiscal
- landscape and visual
- indigenous peoples rights and traditional areas

US National Environmental Policy Act

(proclaimed in 1970)

NEPA called for:

- consideration of environmental values in decision making
- use of a systematic, interdisciplinary approach
- . a detailed statement on:
- the environmental impact of proposals
- any adverse effects which cannot be avoided
- -alternatives to the proposed action
- making the statement available to the public

This process became known as Environmental Impact Assessment

Evolution of EIA

- . early 1970s initial development
- . 1970s to 1980s increasing scope
- mid to late 1980s process strengthening and policy integration
- mid 1990s towards sustainability (SEA, Biodiversity)

EIA- Three core values

- integrity the EIA process will conform to agreed standards
- utility the EIA process will provide balanced, credible information for decision-making
- sustainability the EIA process will result in environmental safeguards

Source: Sadler, 1996

EIA – guiding principles

The EIA process should be:

- purposive meeting its aims and objectives
- focused concentrating on the effects that matter
- adaptive responding to issues and realities
- participative fully involving the public
- transparent clear and easily understood

Source: Sadler, 1996; IAIA/IEMA 1999

EIA – guiding principles (continued)

- rigorous employing 'best practicable' methodology
- practical establishing mitigation measures that work
- credible carried out with objectivity and professionalism
- efficient imposing least cost burden on proponents

Source: Sadler, 1996; IAIA/IEMA 1999

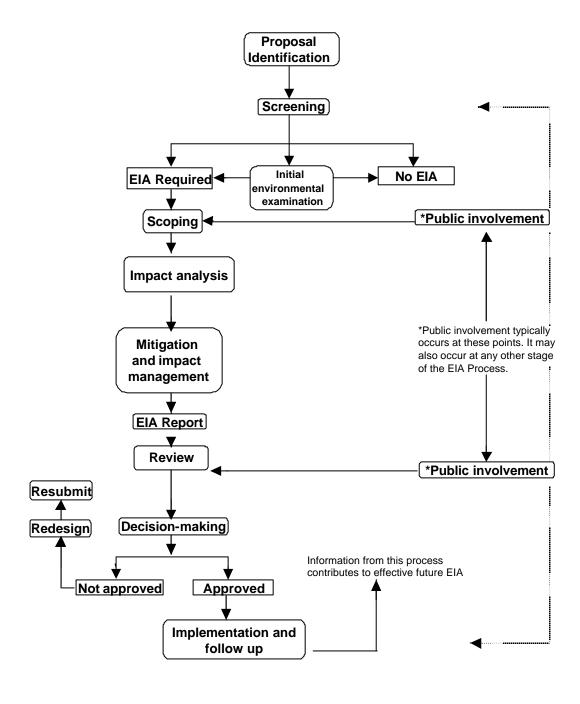
Key operating principles of good EIA practice

EIA should:

- be applied to all proposals with significant impacts
- begin early in the project cycle
- address relevant environmental, social and health impacts
- identify and take account of public views
- result in a statement of impacts and mitigation measures
- facilitate informed decision making and condition setting

Source: Sadler, 1996

Generalised EIA Process Flowchart



The EIA process

The EIA process comprises:

- screening to decide if and at what level EIA should be applied
- scoping to identify the important issues and prepare terms of reference
- impact analysis to predict the effects of a proposal and evaluate their significance
- mitigation to establish measures to prevent, reduce or compensate for impacts

The EIA process (continued)

- reporting to prepare the information necessary for decision-making
- review to check the quality of the EIA report
- decision-making to approve or reject) the proposal and set conditions
- follow up to monitor, manage and audit impacts of project implementation
- public involvement to inform and consult with stakeholders

Benefits of EIA include:

- environmentally sound and sustainable design
- better compliance with standards
- , savings in capital and operating costs
- reduced time and costs for approvals
- increased project acceptance
- better protection of the environment and human health

Delays are caused during EIA when:

- the EIA is commenced too late in the project cycle
- the terms of reference are poorly drafted
- . the EIA is not managed to a schedule
- the EIA report is inadequate and needs to be upgraded
- there is a lack of technical data

Ensuring fairness in the EIA process

- register consultants' names and terms of reference
- name consultants and their expertise in the EIA report
- publish the terms of reference in the EIA report
- make EIA reports available to the public
- publish lists of screening and final decisions along with conditions for approval