



Energy efficiency - IRP 2010 Input Parameter information sheet

(Demand input)

This sheet is to be used as the primary stakeholder engagement tool. This document provides the information that will allow the stakeholders to make a meaningful contribution to the IRP Input parameters.

Parameter	Energy efficiency
Purpose	<p>Energy efficiency (EE) is both a consumer and supplier response to a number of economic, environmental and social signals.</p> <p>The drive for energy efficiency is being driven by:</p> <ul style="list-style-type: none">• Increasing price of electricity,• The environmental demand to consume less energy and consequently reduce both the consumers and suppliers carbon and energy footprint.
Impact on the IRP	<p>Historically increased energy efficiency (reduced specific energy consumption [kWhr/product]) has been shown to increase economic efficiency (increased GDP), increase job creation, develop new products and consequently increase absolute national energy consumption.</p>
Assumptions included in establishing the parameter values in this sheet	<p>It is considered that the specific energy efficiency (kWhr/production unit) on average in South Africa will not improve by more than 8% by 2015 relative to the 2000 baseline, and that there will be a significant spread of performance improvement ratios through the various sectors of the economy depending on many factors.</p>
Parameter Value	<p>The parameter is included in the electricity demand schedule and the DSM energy efficiency project schedule which is related to</p>



	specific focussed projects.
Range of Parameter Value	The Parameter range will be influenced by internal and external stimuli i.e. if South African mining fully utilises the next commodity wave, the sector could improve sectoral specific energy consumption, grow 3-4% per annum and create 20 to 30 % more sectoral jobs and stimulate other sectors of the economy, the GDP and increase absolute energy consumption.
Preconditions necessary to make possible for this parameter to be included in the IRP	
Parameter Owner	Department of Energy