

Orbital Renewable Energy
renamed MyPowerStation

Integrated Resource Plan

Submission

29th November 2010

My definitions

- Government
 - Strategy set and watched by cabinet
 - Implemented by ministers, local governments, ward forums, residents associations, NGO's
- Wealth
 - Includes monetary, health, land, farm, top-soil, forestry, water, food, clothing, energy
 - Wealth considers future generations

Introduction

- Resources
- Wealth
- How much electricity do we actually need in the next 20 years?
- A holistic, systems, approach is needed
- Renewable energy risks are lower than fossil fuel risks (table 37 page 75)

The IRP ignores

- Net Metering
- An understanding of the costs: What is R100 Billion anyway?
- A marketing plan

1) Net Metering

- Not considered in the IRP
- Can be used to kick start the industry at no cost to the fiscus (government)
- Great for people who are already connected to the grid
- Incentives can be added as we go along
 - VAT Refunds, Rebates, Tax Refunds
- < 1MW systems must be part of the IRP

1) Reasons I have been given why Net Metering and Grid Tie isn't considered

- It destabilises the grid
- Reverse feed can damage the local transformer
- Reverse feed can electrocute an electrician working on power lines
- Electricity revenue will go down

1) Solving these problems

- The grid can already handle household loads and big baseload power stations being switched on and off
- Most excess electricity will go to the neighbours and it will take a long time before anything reaches a transformer & even then Engineers say it isn't a problem
- Resolved by international standards
- Electricity revenue will grow whilst people will have security of supply to keep their businesses running

2) An understanding of the costs - what is R100 Billion anyway?

- Buys a 5GW power station employing 8,000 people for 8 years?
- Replaces 20GW of electricity provision assuming hot water and solar chillers are used
- Buys 100 Million R10,000 solar water heaters
- Could permanently employ 35,000 people

3) A marketing plan

- The general public needs to be objectively educated as to the alternatives, costs and risks
- Paradigm change: the definition of success needs to change to “successful people live off the grids and have a negative carbon footprint”
- African solutions need to be considered

Thank you

- David Lipschitz
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