



MBANI WESIZWE

Planet - People - Prosperity

**Economic “Solutionaries” -
Championing Sustainability**

THE TEAM

MBANI WESIZWE

SUSTAINABLE INVESTMENTS (Pty) Ltd

Is a group of committed social entrepreneurs with collective experience in excess of 30 years in the field of renewables and social entrepreneurship, and has a 61% BEE ownership structure.

CHAIR PERSON: MBONGENI MHLAMBO

DEPUTY CHAIR: HENDRINA YAKA

DIRECTORS: BUSISIWE KHUMALO

WISEMAN NTOMBELA

THOMAS MUNN

WAYNE PHILLIPS

NOMPUMELELO GUMEDE

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“In the life of any nation there are rare moments of historic opportunity when great decisions can be taken that will shape the future for generations to come”.

IRP2010 is such a time and opportunity

The time is right, economically, socially and environmentally, to embrace sustainable renewable energy technology wholeheartedly.

There is a wide range of effective technologies at our disposal, which in the shortest possible time, can change our legacy and help achieve our government’s vision of positive and meaningful empowerment for all our people

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THE 'SID'

Sustainable – The fuel source is renewable, the business model is based on a SCALEABLE power production and a community-ownership / participation model thereby democratising capital and a traditionally centrist industry.

Integrated – Combining different complimentary technologies in a zero emissions program that results in cross-subsidisation, eliminating the need for on-going government support.

Decentralised – The power generator, as well as complimentary and associated technologies, is owned by regional communities, stabilising the local grid and reaching into previously inaccessible regions, while reducing the cost and losses associated with long distance transmission lines.

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THE SUTAINABLE VISION

- A distributed power network of renewable energy technologies owned by the communities they serve.
- Sustainability: 'One Planet Living' principles; Present generations to supply their needs/wants without compromising the future generations. Profit while making a positive difference to society, by being responsible.
- Social entrepreneurship, Capitalism with a conscience/human face.
- Transformative, Sustainable, Integrated, Decentralized, Equilibrium.



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THE REQUIRED FUNDAMENTAL PARADIGM SHIFT

The **IRP2010** is a 21st century IRP, not a 19th or 20th century IRP So it needs to be handled that way.

Mostly what this should imply is the required shift in thinking , we cant take our cue from the past and **intention** needs to be shaped around the new dynamics of our current world.

The big question is why are we even talking about out of date toxic technologies and not focusing on **Clean Renewables???**

In a crises major unprecedented change in direction has been seen in the past like in times of war, and this attitude is what is required to address the current global and local crises

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INCLUSIVITY

- We are all here in the best interests of our country, our continent and our people, and the decisions we make will impact globally as we are one planet.
- Our contribution is to promote a movement towards sustainable socio-economic change in the form of a non-competitive model based on the inclusion of all stakeholders.
- The same inclusive model that was applied to our Democratic Transition has to be applied to our Economic Transition, and the Energy Model is the main tool in shaping this transition.

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- The freedom promised by Democracy is only fully realised if it is based on TRUE economic empowerment, and energy production is central to this truism.
- The centrist model of power generation does not always embrace national and social interests or imperatives in the best possible way. Social entrepreneurship is required to deliver opportunity to the people.
- Economic empowerment for all is critical, energy can be the driver and as has been proven previously, that when a minority tries to dominate a majority, the balance will ultimately be restored.
- So entrench empowerment, through decentralised power generation now, as part of the **IRP2010**

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- Technological innovation in renewable energy could put South Africa at a forefront of economic growth and development worldwide, similar to what the motor industry did to Japan in the previous century, or IT for silicon valley etc, etc.
- Fossil fuels (and uranium) are a finite resource which will eventually, some say imminently, be completely exhausted.
- Models based on fossil fuels and other minerals are obsolete in every way, and not sustainable.
- “The proof of the pudding is in the eating” - Remove the academic debate around the viability of renewables by building commercial proof-of-concept pilots, across all technologies.

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- Proponents of traditional power generating technologies say that renewables are not yet capable of sufficient capacity and/or power delivery as required (dispatch ability).
- **We emphatically disagree!** Renewables can deliver MW scale projects capable of dispatch able power within 12 months of the required permissions being granted, at any scale, with storage, making 24/7 renewable energy a reality.
- With the decentralised power model one is not locked into a specific technology, which is essential as technological development is moving fast and must be incorporated as it becomes viable.

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THE OPPORTUNITY

In these very challenging times,
when the future of most traditional businesses
and even the underpinning economic model is uncertain,

There is a light that shines brightly

**SUSTAINABILITY, INTEGRATION,
DECENTRALISATION - “SID”
AND
RENEWABLE ENERGY**

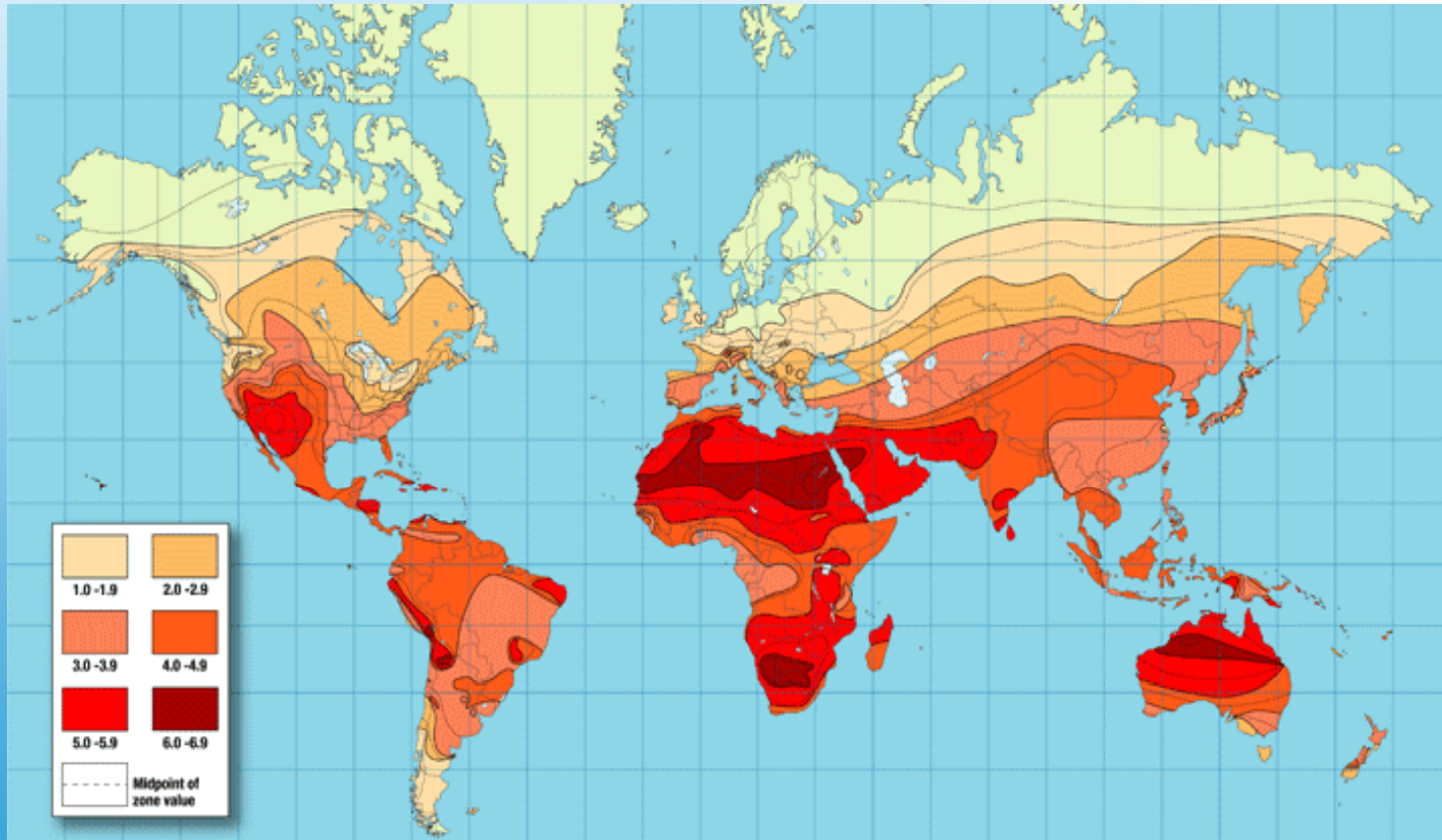
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SOLAR ENERGY

Globally, Africa has the most potential for solar energy production



Renewables could be to South Africa and Africa what oil is to the Middle East

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PRIORITY 1: UTILITY SCALE STORAGE

- There is environmentally friendly utility scale technology available which enables the smoothing of **all** renewable energy supply technologies.
- This is an effective, inexpensive replacement for Kusile at R150bn AND CLIMBING , or Coal 3.
- SA is currently building base load coal power stations to supply peaking demand, due to lack of storage capacity.
- Can be developed in parallel with Medupi, and Can be funded by private equity.
- Can be placed close to demand to assist in balancing the grid and reducing transmission losses and costs.
- Can be majority locally manufactured from local materials.

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PRIORITY 2: CONCENTRATED SOLAR POWER

- Concentrating solar power (CSP) has now developed to the point where it can supply high pressure steam to existing power blocks.
- CSP can facilitate the electrification of rural communities beyond the reach of the existing grid
- Solar Thermal Storage technology now enables the supply of solar power 24/7 if necessary.
- The question is not
 “can we afford to implement this technology?”
 But
 “CAN WE AFFORD NOT TO?”

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Concentrated Solar Technology can supply Electricity, Desalinisation and purification, Heating and Cooling, and is scalable, with no fuel and low maintenance costs.

THE WAY FORWARD ...

Historically vested interests (being traditional, established monopolies) are blocking real progress in transformative technologies, because of their own Capital inertia.

What is required is a complete paradigm shift in thinking on energy generation and the financing models .

The time for that change is NOW!

THE UNIVERSAL IMPLEMENTATION OF RENEWABLE ENERGY POWER PRODUCTION IS ESSENTIAL TO REALISE SOUTH AFRICA'S VISION OF LEADING SUSTAINABLE DEVELOPMENT FOR THE REST OF AFRICA. IMMEDIATE HIGH-LEVEL STRATEGIC INTERVENTION IS ABSOLUTELY NECESSARY TO ACHIEVE THIS

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THE WAY FORWARD ...

“So, we have a choice to make.... We can remain a major importer of foreign oil and one of the world's worst emitters of greenhouse gasses, or we can make the investments that would allow us to become one of the world's leading exporters of renewable energy and associated technology. We can let the jobs of tomorrow be created abroad or we can create those jobs here in South Africa and lay a solid foundation for lasting prosperity for all of Africa and the world”

Adapted from President Obama's speech to America

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Thank you

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