



Worcester

presented by the Worcester Business Forum





Worcester

Introduction

- It has come to the attention of the City of Worcester that South Africa's draft electricity plan excludes, in the short term, solar PV under the IRP2010 REFIT generation mix
- This has a direct negative impact to the LED initiatives of Worcester (the fourth largest city in the Western Cape)



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Local Economic Development

- **Worcester's municipal area has a population of 135000 people.**
- **The economy relies almost solely on agriculture.**
- **The industrial, commercial and manufacturing sectors need a boost.**
- **Worcester has a good infrastructure. It has the knowledge base suited for the industrial, commercial and manufacturing sectors, yet the missing link is the investment in those industries in Worcester.**
- **The most recent census data listed the unemployment rate as 20% (2001).**
- **Breede Valley Municipality (Worcester) consistently posts GRP growth 1-1.5% below Cape Winelands District average.**



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Worcester is PERFECT for PV

- **Fantastic solar radiation resources**
- **Worcester has optimal infrastructure. With 13 high voltage (>66KV) Eskom power lines and 5 substations within a 40km radius.**
- **Flat, sparsely populated land and under-utilised Little-Karoo land with low environmental impact**
- **Geographically very accessible, close to major cities.**
- **SA's PV manufacturers are all located in the Western Cape**
- **Worcester has the human resources and needs a vehicle for creating decent and sustainable jobs in new sectors.**



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Our Vision

- **“Greening Route 62” project**
 - » **Worcester is the start South Africa’s longest wine route, Route 62**
 - » **The wine industry is moving towards sustainability and “going green”**
 - » **Augment eco-tourism Route 62 value proposition as “ Green route”**
- **Advantages:**
 - » **Attract tourism to the region – stimulate associated entrepreneurship and opportunities**
 - » **Adding an incredible marketability value to the existing wine industry in the region and along the route. Great job creation potential.**
 - » **Route 62 is world renowned. Exposure for South Africa’s green trend.**



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What are the possibilities...

- **Worcester is PERFECTLY situated to become the knowledge and innovation hub for renewable and green industry in SA**
 - » **University of Stellenbosch is home to the Centre of Renewable and Sustainable Energy in SA. The University is constructing a satellite campus in Worcester.**
 - » **Main campus is close to Worcester.**
 - » **Renewable energy Innovation Centre is planned for Worcester**
- **Advantages**
 - » **Skills development**
 - » **“Employing the unemployable” and creating a broad-base of green jobs.**
 - » **Making Worcester attractive for investors.**



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Looking beyond...

- **“PV Model” can be exported**
 - Worcester’s economic spin-offs can be used as a guide to other municipalities
 - PV is flexible and works wherever the sun shines – naturally, semi-arid to arid areas best suited
 - PV can aid stagnant local economies elsewhere in South Africa
- **PV is modular**
 - **Can be custom built, any size, any output**
 - **Literally: Powerplant-on-Demand**
 - Less vulnerable to energy demand miscalculation risks
 - Quick to produce power
 - Can grow with local energy demand



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Tomorrow: Green Mzansi

- **Rapid development, flexible implementation**
 - Green Energy Technology is developing exponentially
 - pV Solar is experiencing the most rapid growth
 - Installation & integration applications continue to evolve
 - **Micro-small businesses can capitalise**
 - Residential and commercial use increase as technology gains traction
 - **Endless resource: South Africa perfect!**
 - African reach: continent with highest solar irradiation
 - Worcester/Univ. of Stellenbosch can become an innovation hub for the technology



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IRP: Moving People & Power Forward

- **Building a sustainable future for all**
 - Job creation for the unskilled and skilled
 - Untapped sector with unmatched growth potential
 - Knowledge-based local economy
- **National building locally**
 - National policy supporting local development
 - Worcester has the “**Green Commitment**”

MAKING SOUTH AFRICA AN AFRICAN LEADER IN PV TECHNOLOGY



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Conclusion

- **Boost critical job creation sectors**
- **Augment the Eco-tourism industry**
- **Green energy knowledge hub**
- **Add brand value to developing wine industry**