



Scatec Solar

Chair in Photovoltaic Systems



RENEWABLE & SUSTAINABLE
ENERGY STUDIES



Research Topics in Renewable Energy for 2019

Dosent / Lecturer: Dr Arnold Rix		Email: rix@sun.ac.za	
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Fakulteit / Faculty: Electrical Engineering	Department / Department: Electrical & Electronic		
Navorsingsarea / Area of Research: Photovoltaic Systems – Renewable Energy			
Algemene beskrywing van navorsingsveld / General description of research area: Solar PV systems			
Lys van onderwerpe/List of topics:	M.Eng. (Structured)	M.Eng. (Research)	Ph.D.
1. Investigate AC vs DC reticulation in floating solar PV plants		X	
2. Investigate if the current surge protection equipment used at PV plants provide sufficient protection		X	
3. Investigate and implement data collecting hardware as well as data mining methodologies to monitor PV plant performance degradation and predict failures.		X	
4. Implement a sky monitor to help aid in the prediction of PV plant output variation due to clouds.		X	
Spesifieke voorvereistes / Specific requirements: B.Eng. in Mechatronic or Electrical and Electronic Engineering.			
Befondsing beskikbaar / Funding available: Yes, funding is available.			
Applications: Please email rix@sun.ac.za to discuss your topic of choice and receive the application form.			