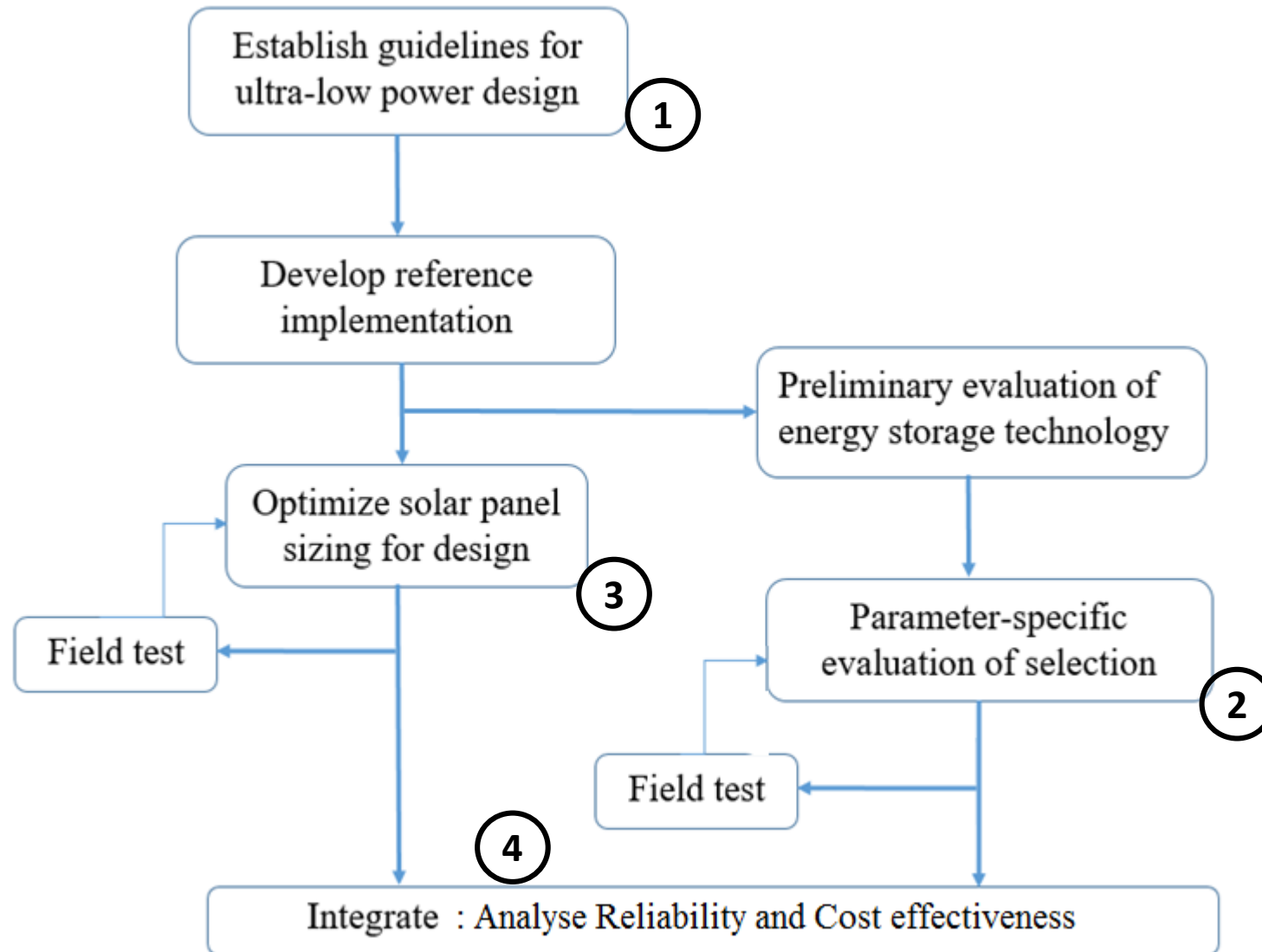


Energy Harvesting, Storage and Management for Automated Environment Monitoring in the East African Region



PROGRESS REPORT – JUNE

Maximus Byamukama

Conceptual Framework



June Plans as per last presentation

Finish proposal and present to HDRC	
Pay tuition for 2016/2017	No Progress
Improve reliability of uplink	?
Start Preliminary work on Objective 3 with Masters student	

Obj 1: Gen 3 evaluation JUNE

	Gen2 count	Gen3 count	Gen3: Gen2 %
Jun-13	21758	7214	33.1
Jun-14	18043	16150	89.5
Jun-15	17216	16661	96.7
Jun-16	16248	16333	100.5
Jun-17	16975	16294	96
Jun-18	14920	14895	99.8

Expected: 14440 of 20160 = 71%

Obj 2:

- First run of experiment: 5% self –discharge in first 5000 minutes. 0.5% thereafter.
- Can not conclude. 2nd run needed.

July Plans

Secure full admission, Pay tuition for 2016/17 and register	
Improve reliability of uplink	
2 nd run of experiment for Objective 2 and start on paper: Self-discharge of Lithium Ion Supercapacitors in high temperature environments TARGET: <i>IEEE Transactions on Industrial Electronics</i>	

OTHER

- Rain gauge project was huge success