

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

**PROGRESS REPORT – JULY**

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# What happened this Month

- IEEE AFRICON Paper Accepted
  - Scores (out of 33) : 28, 26, 24
  - Cape Town 18-20<sup>th</sup>
  - The work is relevant, especially if one considers unique challenges in Africa.
  - Minor fixes: Use less websites as citations, Format Abstract to be IEEE style, Change “Reference Implementation” to “Results”
- Paper Update: Principal Author: 1, Co Author: 2, one pending
- Presented to HDRC successfully On July 4.
  - Topic is OK. Objectives are SMART but need to be re-worded (the look like tasks)
  - Delighted to note LIC research direction
  - Conceptual framework is not research flow ???!!!
- RC3 candidate presented Topic to Department Panel

# What's happening this Month

- Hand in Compliance Form + Updated Proposal – documents complete, waiting for strike update 😊
- Chase full admission
- 2<sup>nd</sup> Run of experiment for Objective 2 (Self-discharge of Li-ion super capacitors in high temperatures)

# What did not progress this month

- No work was done on reliability of gateway!
- We may have a hacker onto us.

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RECV_T=2017-07-18 19:44:27 OPTIONS * RTSP/1.0
CSeq: 1
```

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RECV_T=2017-07-18 19:44:31 [REDACTED]1[SMBr[REDACTED]CAN E` [REDACTED]
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RECV_T=2017-07-18 19:44:42 [REDACTED]root[REDACTED]root[REDACTED]vt100/9600[REDACTED]RECV_T=
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RECV_T=2017-07-18 19:44:56 [REDACTED]SOH[REDACTED]SOH[REDACTED]U[REDACTED]ETB[REDACTED]u[REDACTED]S< @BB[REDACTED]
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RECV_T=2017-07-18 19:45:04 [REDACTED]ETX[REDACTED]SYN[REDACTED]DC1[REDACTED]EOT[REDACTED]STX[REDACTED]
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RECV_T=2017-07-18 19:45:08 [REDACTED]ETX[REDACTED]SYN[REDACTED]DC1[REDACTED]EOT[REDACTED]STX[REDACTED]
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RECV_T=2017-07-18 19:45:15 USER test +iw test :Test Wuz Here
NICK vldbrezyt
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RECV_T=2017-07-18 19:45:19 [REDACTED]SOH[REDACTED]SOH[REDACTED]SUB[REDACTED]x[REDACTED]ETX[REDACTED]
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[REDACTED]BS[REDACTED]EOT[REDACTED]SOH[REDACTED]SOH[REDACTED]SOH[REDACTED]SOH[REDACTED]RECV_T=2017-
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```

# August Plans

- Look into gateway reliability
- Finish 2<sup>nd</sup> run of experiment
- Start on 2<sup>nd</sup> Paper

**“Self-discharge of Lithium Ion Supercapacitors in high temperature environments”**

**TARGET: IEEE Transactions on Industrial Electronics**

- Set up solar panel test bed for Objective 3
  - RC3 MSc student to undergo quick-start training

**END**

# Conceptual Framework



