

# Low Voltage Works Management- Electrix



# Low Voltage Works Management

## Industry position pre 2020

- Well recognised systems to control work on HV
- LV has not been subject to same requirements
- Limited guidance in SM-EI / Guides
- LV Networks becoming more complex, higher potential for backfeeds
- Increase risk to workers
- Significant number of near misses





# Low Voltage Works Management

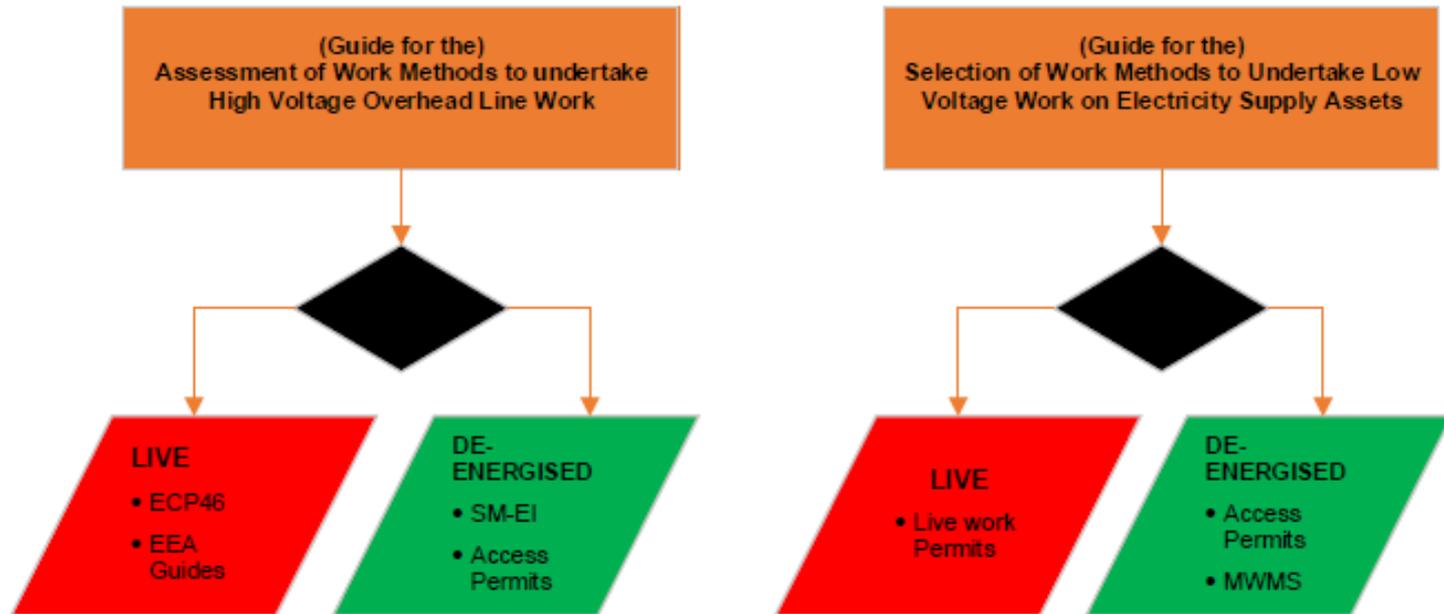
## New industry guidance (fundamentals)

- Alignment of process between HV and LV
- LV Networks are labelled and connectivity understood
- Justification of work method selected
- Control of LV networks by either Network controller or Field operator
- De-energised work controlled through an Access Permit
  - Risk of harm minimised through bonding / earthing or task specific procedure
- Live work controlled through a Live Work Permit
- Work on Service mains controlled by a MWMS



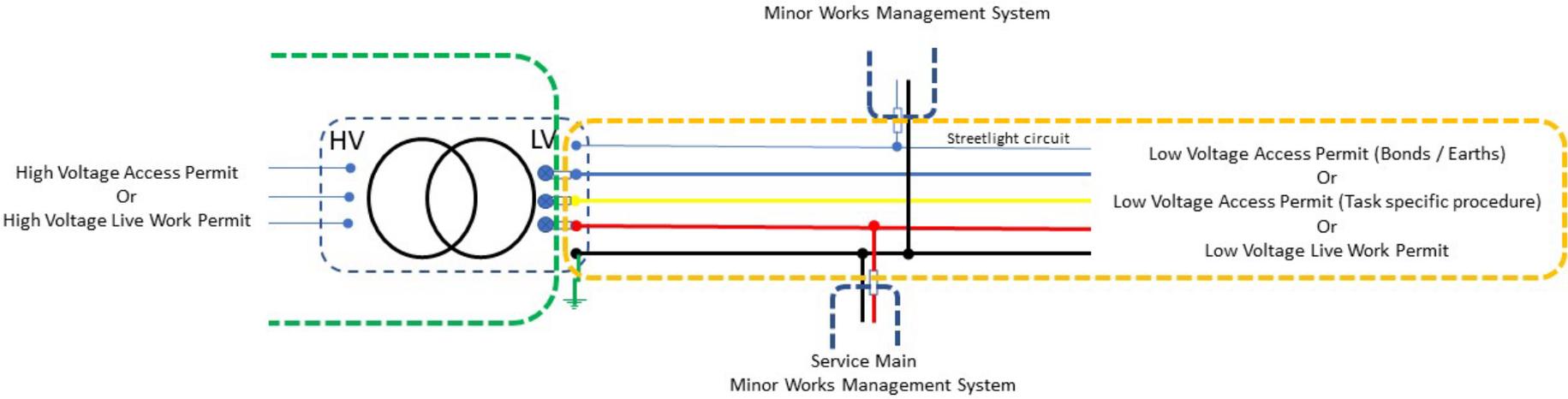
# Low Voltage Works Management

LV requirements mirror HV requirements



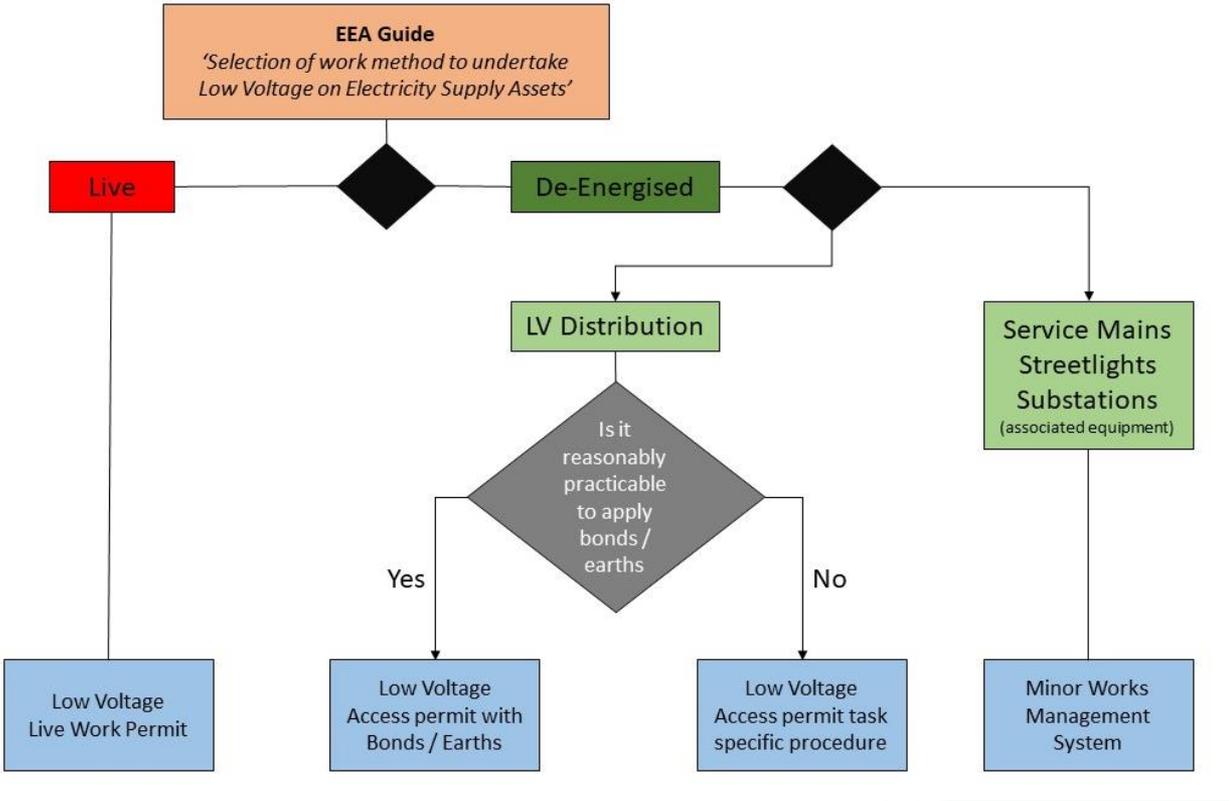
# Low Voltage Works Management

LV requirements mirror HV requirements



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LV requirements mirror HV requirements



# Low Voltage Works Management

## What's Electrix doing

- Small step change, already implemented most of the requirements 2016
- Working group – documented implementation plan (guide requirement section 1.5)
- Implementation programme
  - Identify task specific procedures
  - Select and purchase earths
  - Small change to existing forms and process
    - ATW > LV Access Permit
    - Using existing JRA for LV Live work permit
  - Training to new requirements – the why (earths)



# Low Voltage Works Management

Engagement, reinforcing the **‘WHY’**

**Remember – SMALL STEP CHANGE – (application of safety measures)**

- A number of LV isolations where testing indicated remaining back feeds
- Several LV isolations where testing wasn't completed and circuit remained live
  - Identified post job completion
- Learnings from others (Unison)

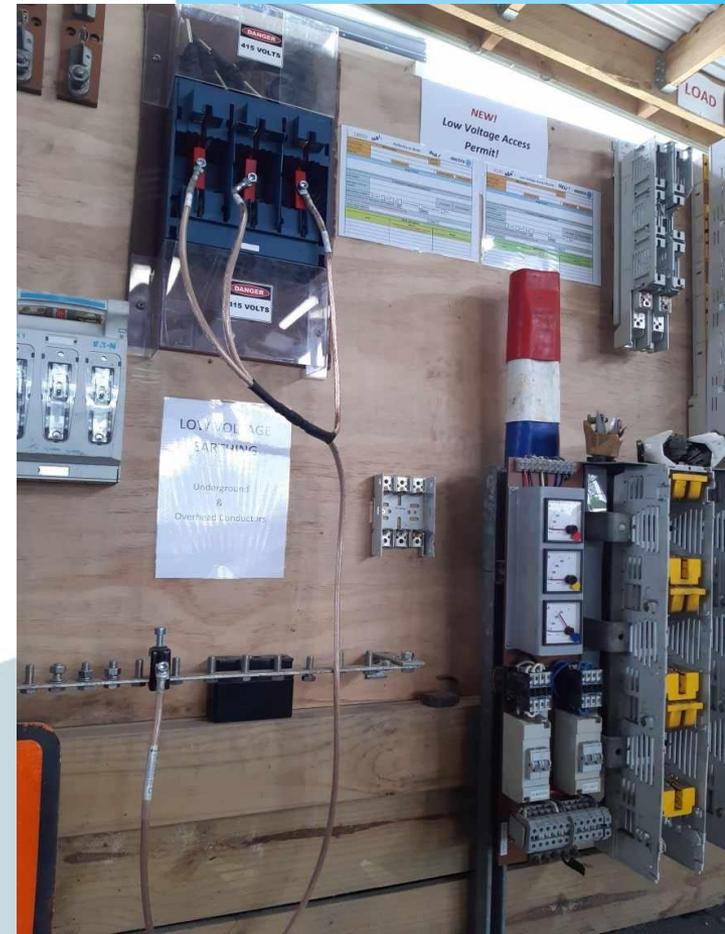


# Low Voltage Works Management

## What's Electrix doing

- Overhead
- Underground
  - Gets people familiar with the what
  - Helps staff engage in solutions

Implementation completed by Dec 2020



# Low Voltage Works Management

## Questions for Clients

- Clients policies should outline / align requirements to FSPs
- Labelling of LV Network – (isolation and open points (section 2))
- Network Connectivity (section 3)
- Issuing of LV Permits - who (note: guide allows us to self issue (section 5))
- HV shutdowns with LV (section 7.3)
  - 1 permit covering both?
  - Small increase in time to earth LV as well as HV
  - Restoration process where LV to remain isolated



Questions?

