

## Contents

- Introduction of Energy Safe Victoria
- My sections role
- The Victorian safety framework
- Electrical Safety Management Scheme (ESMS)
- ESMS validation
- ESV field observations of Work crews
- Example auditing tool (Windows Based)
- Victorian HV Live Work trends
- Questions?

# Energy Safe Victoria (ESV) ESV was created on 10 August 2005 Office of Chief Electrical Inspector (OCEI) and Office of Gas Safety (OGS) combined Independent technical regulator responsible for electricity, gas and pipeline safety in Victoria Investigate gas and electrical safety issues across Victoria Community safety education programs Licence Electricians and register Lineworkers & Spotters Audit safety systems (Energy Companies)



#### What is an ESMS?

A documented proposition by an MEC to ESV for acceptance of how it safely manages the risks of Bushfire, Public (harm & property damage) & Supply Reliability.

Elements covered include:

- Design
- Construct
- Training and Competency
- Inspect
- Assess and manage riskEmergency management
- Maintain
- Vegetation management.

- Operate
- Resubmitted every five years.

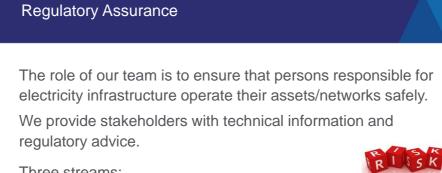
#### How is the ESMS Validated

Intensive desk top audits at the auditee's offices:

- Explain / Show me how
- Show me where it is documented
- Provide evidence it is conducted as documented.

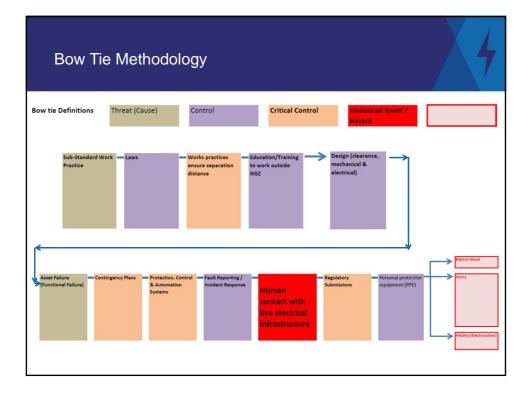
Pre-prepared questions are provided to the business before audit Based on ISO 9001 audit principles.

Once accepted the ESMS is continually reviewed via field audits (Work Practice Observations) and office based systems audits.



Three streams:

- Safety Systems intelligence: Risk Modeling (2)
- Safety Systems assurance: Process and Procedures (5)
- Outcome assurance: Validation of what is actually done (6)



### Safety Systems Assurance & Intelligence groups

#### This team conducts:

- In depth office audits
- For compliance to the accepted ESMS
- Assess, test & challenge asset management & risk practices
- Review of Procedures and Policies

### Field Auditing (Outcomes)

#### **Work Practice Observations**

- Continuous improvement program
- Follow work from the start of the day with the crew
- Engaged in Job Safety Assessment processes (JSA)
- Measure against documented ESMS and electrical safety codes/rules
- Industry principles
- Company procedures.

Written reports provided with the following four categories:

 Non Conformance, Minor Non Conformance, Opportunity For Improvement.

iting Tool		
to XL sheet.		
	and the state of second	
	HV Live Work (General + Stick) Feeder	0
Feeder Protection AR suppression/LLS	Feeder	
Minimum Approach Distances (MAD) not breached.		
MAD correctly selected		
Body positioning for task adequate		
EWP/Platform placement adequate		
Mobile plant used not breaking MAD		
5 Covering used on conductors and structures		
Live Work Rope Management.		
Inspection of rope for problems.		
Correct knotting used.		
Insulators used in taglines/head ropes.		
Dry ropes used.		
Live Ropes tested and tagged where applicable		
A second s	Stick work	
Use of insulated conductor support sticks		
Clean/prepare for use		
Inspect sticks and brackets for problems.		
Check within test.		
Setting of MAD markers.		
Check operation of conductor support brackets		
Load taken on insulating sticks correctly.		
Calculation of conductor load		
3 SWL of support sticks/rig not exceeded		
Correctly rigged as per manuals/manufactures		
1 procedures		
8		
<ul> <li>An and the second s</li></ul>	G&B Work	
Use of insulating barriers and covers		
3 Clean/prepare for use		
Inspect insulation for damage.		

# HV Live work insights

#### Issues

- Cleaning/inspection of insulating gear and equipment (G&B)
- Conductor weight/tension assessment.
- Maintaining clearance between structure and EWP's
- Documenting the risk controls
- Drop zone management
- Documenting changes in work once the task is under way, most crews document any change that they have discussed
- Inadequate covering and ensuring that second point of contact are covered
- Wet testing of EWP's
- Planning of Work.

## **Benefits**

#### Why it works so well!

Pro active approach Field experienced /industry personnel conducting audits No alliance to any company Common industry guidelines, Victorian Electrical supply Industry (VESI) Audit Findings are explained prior to leaving site Open communication between the regulator and workers Best practice can be shared across companies Audits identify industry trends.

