

Natural Sources of 'dust' and 'particulates'



Image of Black Sooty Fungus on citrus

Laura Barben
Graduate Environmental Scientist

Black Sooty Mould (*Fumago vagens*)



- Black sooty growth covering any part of the leaf, stem or branch of plants

Black Sooty Mould



Rust Fungus



- Rust fungus is easily identified by the many orange or red pustules on leaves or stems which break open and release masses of spores.



Powdery Mildew



- Powdery mildew is a fungus which spreads a white or ash-grey film over the upper and lower surfaces of the leaves of plants- usually the older leaves.



Powdery Mildew



Powdery Mildew on Rose



Fern Spores



- Fern Spores which can disperse via wind.



Mites



- Microscopic organism.
- Fine webbing can often be seen where plants have serious infestations.



Tea Mite



- Discolouration to the midrib of the leaf. Common in Camellias.



Central Coast Operations

Luke Welfare
Acting General Manager/Central Coast





Operations Summary

- Safety
 - VP – 7 months since last LTI
 - (record 25 months)
 - MM – 15 months since last LTI
 - (record 28 months)



Operations Summary

- VP & MM
 - Electricity Generation sent out above Budget
 - Excellent Levels of Plant Availability and Plant Performance
 - Electricity market continues to be “Interesting”



Operations Summary

- VP5 & VP6
 - No major unit overhaul/ maintenance outages
 - Some minor outages to address plant issues
- MM 3 & MM4
 - MM3 period of standby in Feb/ Mar – otherwise in service
 - MM4 continues on standby
 - Next planned operation will be in mid June until early August



Operations Summary

- Colongra
 - Continues to be used much greater than budget
 - Proven to be extremely useful for responding to volatile market conditions and supporting Delta’s portfolio



- Environment
 - No Major Issues
 - Annual EPL & NPI Returns submitted to DECCW (ongoing environmental compliance)
 - Some public inquiries regarding buffer lands
 - Foam on Wyee Bay



- Major Events
 - Generator transformer move from Brisbane to Vales Point completed (major logistical exercise)
 - Recognition of VP Water Reclamation Plant in ESAA Awards



Generator Transformer

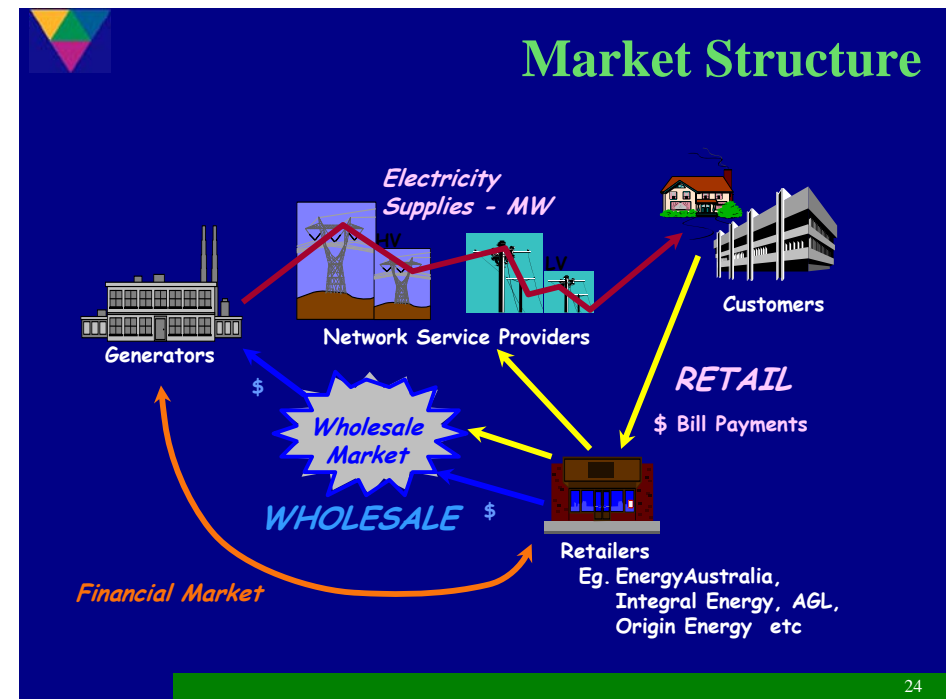
- Generator transformer move from Brisbane to Vales Point
- Dry weight of Transformer 242 T
- Haulage equipment – Beam trailer + four Mack Titan Prime Movers @ 650 HP ea
- Route – Brisbane, Goodawindi, Moree, Muswellbrook, Vales Point
- Time – 9 days, Speed – 5 to 35 km/h

Water Reclamation Plant

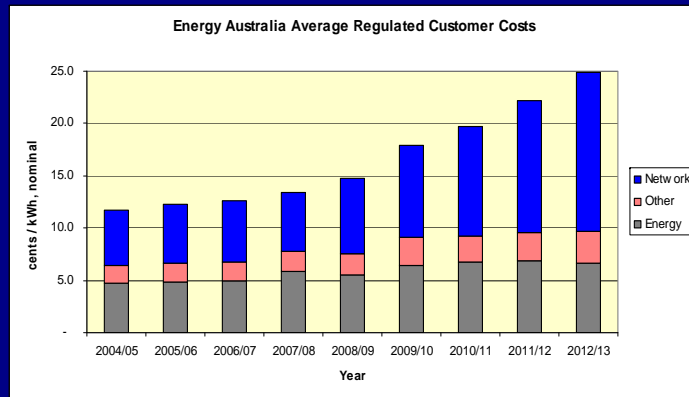


Water Reclamation Plant

- Recognition of VP Water Reclamation Plant in ESAA Awards
- Inaugural ESAA Sustainable Practice Framework Awards
- Industry Innovation Award for demonstrating best practice in community consultation and for receiving support from a wide range of stakeholder groups



Retail Bill: Example Cost Components

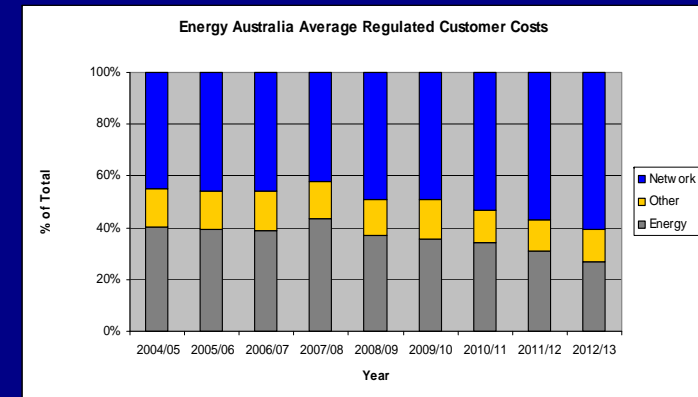


"Other": Includes Green compliance, NEM fees, fixed costs and retail margin

Source: NSW Independent Pricing and Regulatory Tribunal (IPART) data

25

Retail Bill: Example Cost % Breakdown



"Other": Includes Green compliance, NEM fees, fixed costs and retail margin

Source: NSW Independent Pricing and Regulatory Tribunal (IPART) data

26



Community engagement



Community activities

- **Locally**
 - Support for Annual Central Coast Business Prospectus
 - Featured in the Newcastle Herald Environment special feature
 - Six scholarships for students at Ourimbah Campus, University of Newcastle on the basis of merit - Bachelor of Management; Bachelor of Teaching/Bachelor of Arts, Pre-Trade Engineering studies, Indigenous Student Scholarship
- Delta sponsored and arranged the first "Electricity Generation to 2050" Symposium, March 2010 at University of Sydney
 - Invited audience of senior policy makers, academics and CEO's
 - international speakers discussing the policy, technological and financial aspects shaping future generation
- **Colongra Gas Turbine Power Station** short listed for **Level 2** in the 2010 Engineering Excellence Awards programme in two categories:
 - Project Management
 - Infrastructure Projects
- **Vales Point Water Reclamation Plant** short listed for **Level 2** in the 2010 Engineering Excellence Awards programme in two categories:
 - Environment and Heritage
 - Engineering for Regional Communities