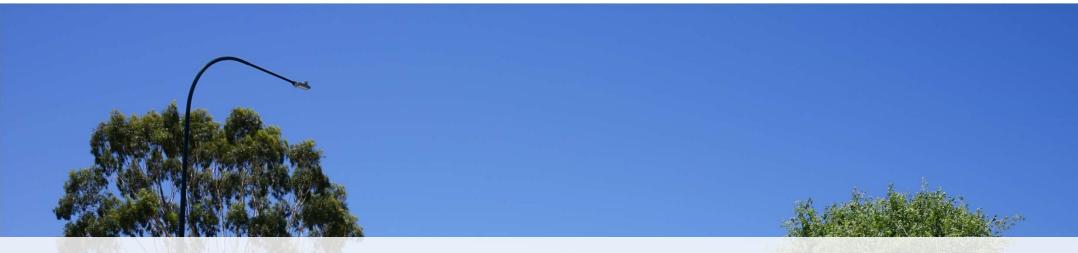


**Eden Hill - Town of Bassendean** 

18 February 2020





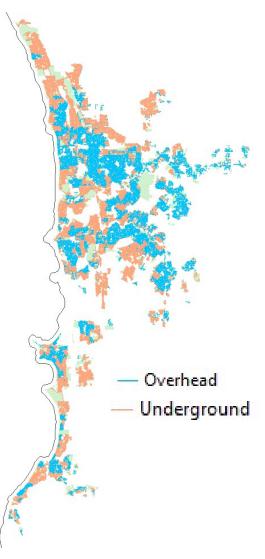
## Background to underground power



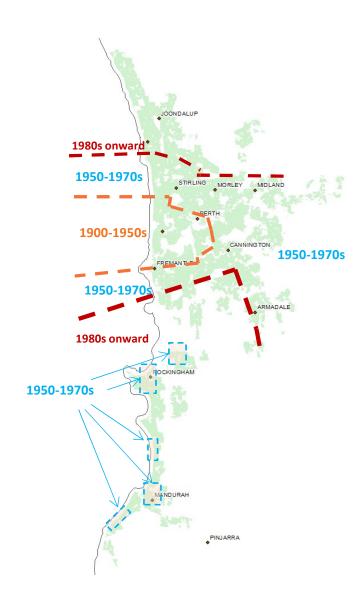
#### Key benefits of underground power

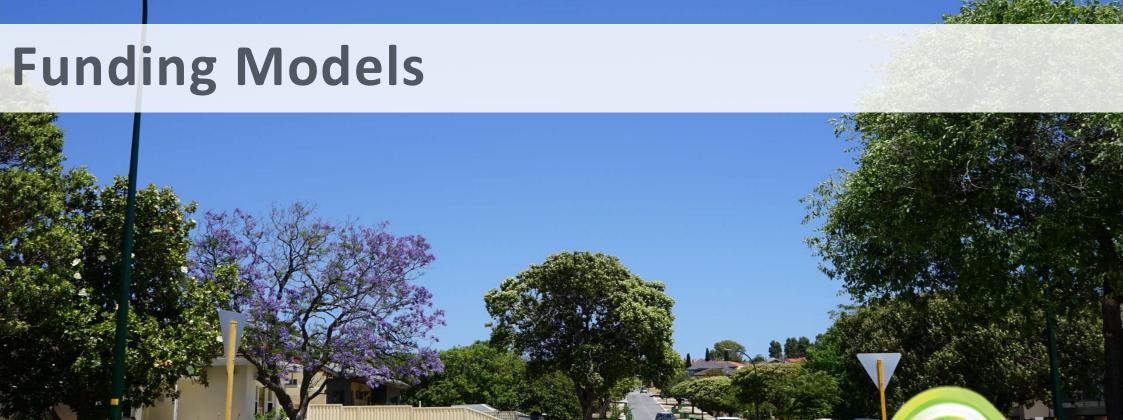
- Improved public safety
- Improved reliability and security of supply
- Improved street appearance
- Increased property value
- Reduction in tree pruning & increased tree canopy
- Lower life-cycle costs
- Improved opportunity for emerging technologies

#### Western Power's Network



- Many of the oldest suburbs
   established in the 1900s-1950s were
   undergrounded by the State
   Underground Power Program
   between 2000 and present day.
- A lot of older inner city suburbs are still served by overhead networks.
   They were establish in the 1950s to early 1970s.
- Most of the outer suburbs established after 1980s were undergrounded by the Urban Residential Development program.





### **Undergrounding Programs**

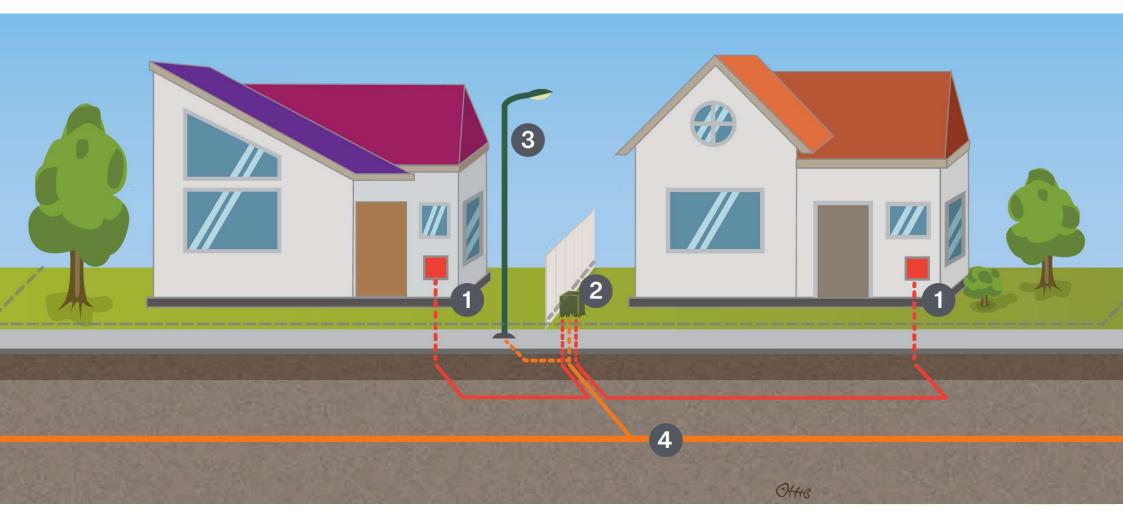
Program type	Project selection		Funding		Likely LGA cost comparison	Is Network renewal
	Ву	Criteria	Contributor	Method	(per property)	required?
SUPP	Underground Power Steering Committee (EPWA)	<ul> <li>Local government contribution 50% or above</li> </ul>	LGAs WP	LGA 50% or above	Mid (\$3k-\$9k)	Maybe - Variable
		<ul> <li>Network renewal requirements</li> <li>Community support above 50%</li> </ul>	State Gov't	Western Power avoided costs		
				State Government to fund remainder		
Customer Funded	LGA	<ul><li>Local amenity</li><li>Community consultation</li></ul>	LGAs	Project costs (balance)	Most (\$4k-\$10k)	Maybe - Variable
			WP	Avoided costs		
WP's Network Renewal Underground Program Pilot	WP	<ul> <li>WP network renewal requirements</li> <li>Community awareness</li> </ul>	LGAs	Project costs (Opex)	Least (\$1.5k -\$2.5k)	Yes - maximised
			WP	Project costs (Capex)		

#### **Network Renewal Underground Program Pilot**

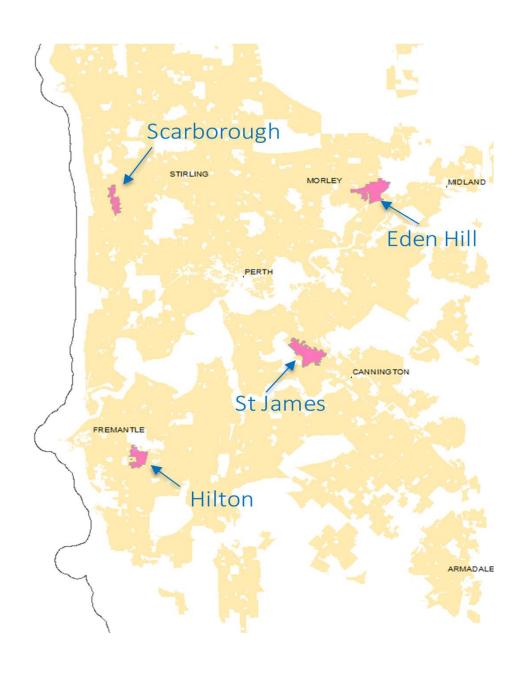
- WP has identified overhead assets that are reaching the end of their life and need to be replaced
- It is more efficient for WP to replace overhead assets with underground assets
- Current undergrounding programs underway result in improving cost competitiveness
- Renewal & maintenance work will be carried out in the area either way (ie. overhead or underground)

### **Funding Model**

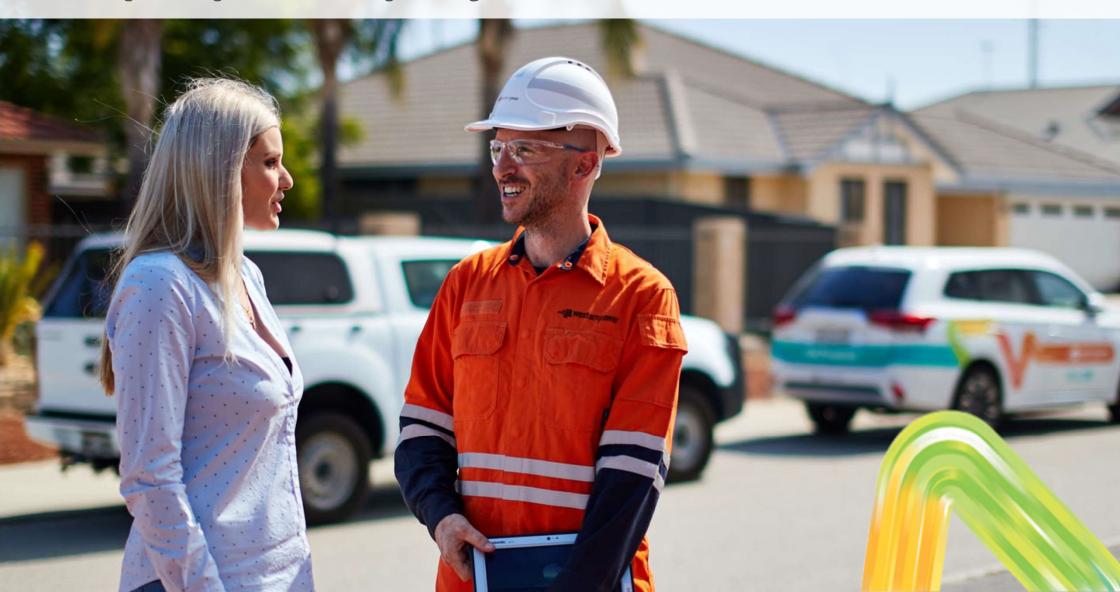
- Local Government Authorities will be requested to fund the consumer mains connection (1)
- Western Power will fund the Capital Expenditure portion of the undergrounding works that includes all of Western Power's infrastructure (2,3,4)



### **Current Pilot Opportunities**

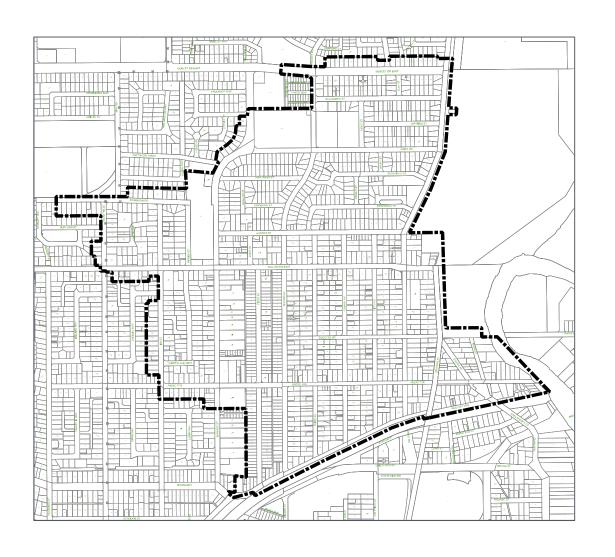


# The proposed project in Eden Hill



#### Proposed Project Boundary - Eden Hill

- Project boundaries are determined by the age & risk profile of the overhead assets in the area
- Expanding the boundaries beyond the area identified means the project is not viable for WP





### The way forward

- 1. Western Power has finalised its Business Case (January 2020)
- 2. Western Power commenced the detailed design (February 2020)
- 3. Presentation to community (now)
- 4. Town of Bassendean to letterbox-drop to all households (ratepayers) within boundary to raise awareness of opportunity (March 2020)
- 5. Council to consider Western Power offer to co-fund the project and payment plan for households (TBC)
- 6. Western Power completes detailed design (May 2020)
- 7. Western Power calls tenders for construction (May 2020)
- 8. Construction starts (August 2020)

#### More information

Western Power: <u>undergroundpower@westernpower.com.au</u>

Town of Bassendean: <a href="mailto:yoursay@Bassendean.wa.gov.au">yoursay@Bassendean.wa.gov.au</a>

