

Traction Substations Site Selection - Sifting

Hazelhatch

Requirements
 -Compliance with tolerance of Power Study
 -Proximity to the railway
 -Accessibility to the public road network

Intervention	Assessment		
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Options Level 1 (PC 2)	Option 0: Do Nothing	Engineering	Feasibility Provide power distribution for traction power Constructability Safety	Leave As Is	●	Fail	Electrification of project not achieved without substations
			Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network		●		Non-compliance with the power study
		Economy Environment	Investment guidelines and programme for DART+		●		Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiante.
	Option 1:	Engineering	Feasibility Provide power distribution for traction power Constructability Safety	Construct traction power substation	●	Pass	Feasible
			Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network		●		OK Located within Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road accessible, adjacent to station carpark.
		Economy Environment	Investment guidelines and programme for DART+		●		Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiante.
	Option 2:	Engineering	Feasibility Provide power distribution for traction power Constructability Safety	Construct traction power substation	●	Fail	Feasible
			Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network		●		OK Located outside Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road accessible via existing maintenance track.
		Economy Environment	Investment guidelines and programme for DART+		●		Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiante.

Traction Substations Site Selection - Sifting





Adamstown






Requirements
 -Compliance with tolerance of Power Study
 -Proximity to the railway
 -Accessibility to the public road network

Intervention	Assessment		
-	-	-	

Options Level 1 (PC 2)	Option 0: Do Nothing	Engineering	<p style="text-align: center;">Feasibility</p> <p>Provide power distribution for traction power</p> <p style="text-align: right;">Constructability</p> <p style="text-align: right;">Safety</p>	Requirements	<p>Compliance with tolerance of Power Study</p> <p style="text-align: right;">Proximity to the railway</p> <p style="text-align: right;">Accessibility to the public road network</p>	<p style="text-align: center;">Investment guidelines and programme for DART+</p>
	Option 1:	Engineering	<p style="text-align: center;">Feasibility</p> <p>Provide power distribution for traction power</p> <p style="text-align: right;">Constructability</p> <p style="text-align: right;">Safety</p>	Requirements	<p>Compliance with tolerance of Power Study</p> <p style="text-align: right;">Proximity to the railway</p> <p style="text-align: right;">Accessibility to the public road network</p>	<p style="text-align: center;">Investment guidelines and programme for DART+</p>
	Option 2:	Engineering	<p style="text-align: center;">Feasibility</p> <p>Provide power distribution for traction power</p> <p style="text-align: right;">Constructability</p> <p style="text-align: right;">Safety</p>	Requirements	<p>Compliance with tolerance of Power Study</p> <p style="text-align: right;">Proximity to the railway</p> <p style="text-align: right;">Accessibility to the public road network</p>	<p style="text-align: center;">Investment guidelines and programme for DART+</p>
	Economy					
	Environment					

Leave As Is		Fail	<p>Electrification of project not achieved without substations</p> <p>Non-compliance with the power study</p> <p>Compatible with the investment guidelines and programme for DART+</p> <p>No impact on Environmental sites of National of International signifiacne.</p>
Construct traction power substation		Pass	<p>Feasible</p> <p>OK</p> <p>Located within Power Study modelling tolerance</p> <p>Located adjacent to the proposed SLOW lines</p> <p>Public road accessible via adjacent private property, will require constuction of access road.</p> <p>Compatible with the investment guidelines and programme for DART+</p> <p>No impact on Environmental sites of National of International signifiacne.</p>
Construct traction power substation		Pass	<p>Feasible</p> <p>OK</p> <p>Located within Power Study modelling tolerance</p> <p>Located adjacent to the proposed FAST lines</p> <p>Public road accessible via existing IE-owned track. Will require track separation to permit ESB access</p> <p>Compatible with the investment guidelines and programme for DART+</p> <p>No impact on Environmental sites of National of International signifiacne.</p>

				Traction Substations Site Selection - Sifting			
				Kishoge			
				Intervention		Assessment	
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Requirements				-Compliance with tolerance of Power Study -Proximity to the railway -Accessibility to the public road network			
Options Level 1 (PC2)	Option 0: Do Nothing	Engineering	Feasibility Provide power distribution for traction power Constructability Safety Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network Investment guidelines and programme for DART+	Leave As Is		Fail	Electrification of project not achieved without substations Non-compliance with the power study Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiante.
	Option 1:	Engineering	Feasibility Provide power distribution for traction power Constructability Safety Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network Investment guidelines and programme for DART+	Construct traction power substation		Pass	Feasible OK Located within Power Study modelling tolerance Located adjacent to the proposed FAST lines Public road accessible via adjacent private property Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiante.
	Option 2:	Engineering	Feasibility Provide power distribution for traction power Constructability Safety Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network Investment guidelines and programme for DART+	Construct traction power substation		Pass	Feasible OK Located within Power Study modelling tolerance Located adjacent to the proposed FAST lines Public road immediately adjacent Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiante.
	Option 3:	Engineering	Feasibility Provide power distribution for traction power Constructability Safety Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network Investment guidelines and programme for DART+	Construct traction power substation		Pass	Feasible OK Located within Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road accessible via adjacent private property Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiante.
	Economy						
	Environment						

				Traction Substations Site Selection - Sifting				
				ParkWest				
				Intervention		Assessment		
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Requirements				-Compliance with tolerance of Power Study -Proximity to the railway -Accessibility to the public road network				
Options Level 1 (PC2)	Option 0: Do Nothing	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Leave As Is		Fail	Electrification of project not achieved without substations
			Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network				Non-compliance with the power study
	Economy		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+	
	Environment						No impact on Environmental sites of National of International significance.	
	Option 1:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation		Pass	Feasible OK Located within Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road immediately adjacent Compatible with the investment guidelines and programme for DART+
Economy		Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network				No impact on Environmental sites of National of International significance.	
Environment			Investment guidelines and programme for DART+					
Option 2:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation		Fail	Feasible OK Located within Power Study modelling tolerance Located >50m from proposed FAST lines Public road accessible via adjacent residential development Compatible with the investment guidelines and programme for DART+	
Economy		Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network				No impact on Environmental sites of National of International significance.	
Environment			Investment guidelines and programme for DART+					
Option 3:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation		Pass	Feasible OK Located within Power Study modelling tolerance Located within 50m of proposed FAST lines Public road accessible via adjacent commercial development Compatible with the investment guidelines and programme for DART+	
Economy		Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network				No impact on Environmental sites of National of International significance.	
Environment			Investment guidelines and programme for DART+					
Option 4:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation		Pass	Feasible OK Located within Power Study modelling tolerance Located adjacent to the proposed FAST lines Public road accessible via adjacent commercial development Compatible with the investment guidelines and programme for DART+	
Economy		Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network				No impact on Environmental sites of National of International significance.	
Environment			Investment guidelines and programme for DART+					