Climate risk, Impact & Mitigation in TAPG Palm Oil Operations

Climate Risk	Impact	Mitigation
Long dry period which causes	Loss of yield	Fire mitigation measures
drought		Increase Land
		Fertigation with POME
		Preservation of Natural
		Ecosystems
Extreme rainfall which causes	Loss of yield	Buffer zones
flooding	Reduce worker	Bunds to protect from
	productivity and	Floods
	transport activity	Conservation of Buffer
	 Property and 	Zones & Natural
	infrastructure damage	Ecosystems
	cause by flooding	Improve drainage
	Erosion and	infrastructure
	sedimentation	Emergency Flood &
	Reduce water quality	Water Management
		System
		Riparian management
Extreme Weather	Damage crop	Meteorological data
	Reduce mobilisation	collection and analysis
	Damage Infrastructure	Weather monitoring
Increase Temperatures	Loss of yield likely to	Maintain water level
	drier soil	quantity in the basin of
	Reduce worker	the surrounding project
	productivity	area.
	 Increase hot spot 	Review worker operation
	• Forest or land fires may	hours and increase
	destroy crop and	mechanisation.
	property	Identify factors causing a
		forest fire.
		Develop tools to monitor
		hotspot within the
		landscape
		Perform forest fire
		prevention and mitigation
		procedures.
		Establish an emergency
		and response team
		 Prepare equipment and infractive for formation
		fire mitigeties (i.e. fire
		Tire mitigation (i.e., fire
		monitoring tower)
		Apply zero burnings
		during land preparation
		Conduct regular fire drills

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Climate Risk	Impact		Mitigation	
Increase Carbon dioxide level	•	Increase in carbon	•	Energy efficiency
		dioxide level may cause		(periodic maintenance of
		increase in yield up to		machinery, using low
		75% which depends on		energy technology)
		the increase of		Using renewable energy
		temperature		from waste utilization
Pests and diseases	•	Potential increase in	•	Monitor increase in
		Pests & Diseases		Pests & Diseases
	•	When conditions are	•	Develop disease and
		sub-optimal for oil palm,		pest tolerant crops
	2	such as when		
		temperatures are high or		
		there is limited water		
		availability, palms may		
		be less able to resist		
		pests and diseases,		
		causing yield loss.		
Pollination	•	Possible that the rate of	•	Monitor key species
		pollination of oil palm in		population (Pollinators &
		Southeast Asia will		Beneficial Species)
		decrease under climate		
		change		
	•	It is still uncertain		
		whether it will impact on		
		oil palm yield		

