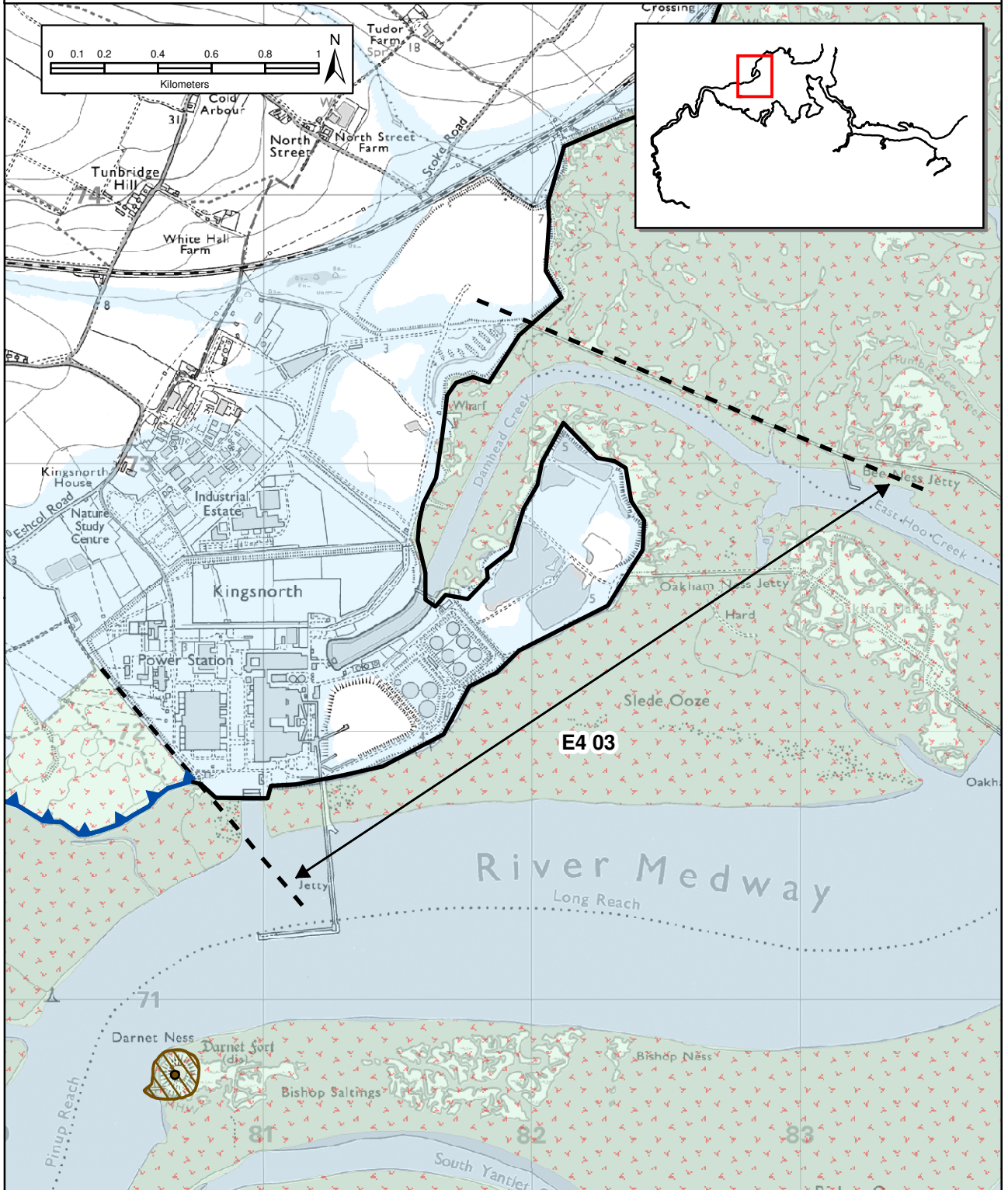





Medway Estuary and Swale Shoreline Management Plan


Policy Unit E4 03: Kingsnorth Power Station







Policy

From Present Day:	Medium-Term:	Long-Term:
Hold the Line	Hold the Line	Hold the Line

-  Indicative erosion zone up to 2025
-  Indicative erosion zone up to 2055
-  Indicative erosion zone up to 2105

-  Indicative realignment location*
- * Actual realignment extent and location will be the subject of further studies.

-  Policy Unit Boundary
-  Policy Unit Extent
-  Current shoreline
-  Hold the Line (0-100 yrs)

Environmental/Cultural Heritage

-  National Nature Conservation Designation
-  Important Heritage Sites (Scheduled Monuments)
-  International Nature Conservation Designation
-  2005 Indicative floodplain © Environment Agency

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Location reference: Kingsnorth Power Station

Policy Unit reference: E4 03

SUMMARY OF THE PLAN AND JUSTIFICATION

Plan:

The nationally important Power Station and associated infrastructure dominating this frontage is protected by revetted embankments along the majority of the frontage. Jetties from the Power Station stretch out into the estuary and extend over a number of small islands. Permission has been granted for a larger Power Station to be built in this location. The wide intertidal mudflats and saltmarsh along the frontage, including Oakham Marsh Island are internationally designated.

The plan in the long term is to protect this major asset and avoid any potential contamination risks. Were the station to cease operation and be decommissioned, the policy for this unit should be revisited. The preferred plan also reduces flooding risk to adjacent low lying areas.

Under this policy some localised coastal squeeze impacts will be experienced in later epochs. However, these are countered by habitat growth within the middle reaches of the estuary and the recommended policy is deemed technically and environmentally viable, for the duration of the Shoreline Management Plan.

Preferred policies to implement Plan:

From present day: The present day policy for Kingsnorth Power Station is to **hold the line**. This will be achieved by continuing to maintain the defences around the nationally important asset and associated infrastructure. As sediment supply within the estuary is expected to meet demand throughout this epoch, intertidal mudflat and saltmarsh evolution is predicted to continue with erosion in some areas (e.g. Oakham Marsh Island), increasing pressure on defences, and accretion in others.

Medium-term: The medium term policy is to **hold the line**. In response to sea level rise it is anticipated that defences will require additional maintenance and potentially upgrading at some time within this epoch to continue protection of this important infrastructure feature. Intertidal areas are predicted to continue to evolve as per the previous epoch.

Long-term: The long term policy is to **hold the line** and protect the Power Station frontage and low-lying assets on the hinterland. There will be an increased potential for erosion of intertidal areas with sea level rise, due to coastal squeeze as natural channel processes are restricted by defences, and as sediment supply

The above provides the local details in respect of the SMP-wide Plan; therefore the above must be read in the context of the wider-scale issues and policy implications, as presented in the preceding sections and Appendices to this Plan document.

Location reference: Kingsnorth Power Station

Policy Unit reference: E4 03

decreases.

Location reference: *Kingsnorth Power Station*

Policy Unit reference: *E4 03*

IMPLICATIONS OF THE PLAN FOR THIS LOCATION

Time Period	Management Activities	Material Assets, Infrastructure & Land Use	Landscape	Natural Environment	Historic Environment	Population (Amenity & Recreational Use and Human Health)
0-20 years	Undertake engineering works to hold the defence line.	Defences will continue to provide the appropriate standard of protection to built assets, infrastructure and agricultural land during this period.	Designated landscape of the industrial area maintained.	No net loss of internationally designated intertidal habitats and nationally important (BAP) habitat. However, due to coastal squeeze, loss will occur in some areas as will accretion elsewhere. No loss of internationally designated coastal grazing marsh. Potential coastal squeeze/ accelerated erosion in constrained reach of Medway Estuary, with associated failure of WFD objective 2, "no changes that will cause failure to meet surface water "good" ecological status or potential (where potential relates to HMWB or AWB) or result in a deterioration of surface water ecological status/potential"	Potential loss of unknown heritage buried in intertidal zone.	No loss of properties or community facilities in Hoo St Werburgh. No recreation and amenity issues relating to this industrial coastal unit.
20-50 years	Undertake engineering works to hold the defence line.	Defences will continue to provide the appropriate standard of protection to built assets, infrastructure	Designated landscape of the industrial area maintained but with increased defences.	No net loss of internationally designated intertidal habitats and nationally important (BAP) habitat. However, due to coastal squeeze,	Potential loss of unknown heritage buried in intertidal zone.	No recreation and amenity issues relating to this industrial coastal unit.

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		and agricultural land during this period.	Larger defences may affect landscape character.	loss will occur in some areas as will accretion elsewhere. No loss of internationally designated coastal grazing marsh. Potential coastal squeeze/ accelerated erosion in constrained reach of Medway Estuary, with associated failure of WFD objective 2, "no changes that will cause failure to meet surface water "good" ecological status or potential (where potential relates to HMWB or AWB) or result in a deterioration of surface water ecological status/potential"		
50-100 years	Undertake engineering works to hold the defence line.	Defences will continue to provide the appropriate standard of protection to built assets, infrastructure and agricultural land during this period.	Designated landscape of the industrial area maintained but with increased defences. Larger defences may affect landscape character.	Potential affect on internationally designated intertidal habitats and nationally important (BAP) habitat with coastal squeeze, as sediment supply decreases in the estuary. No loss of internationally designated coastal grazing marsh. Potential coastal squeeze/ accelerated erosion in constrained reach of Medway Estuary, with associated failure of WFD objective 2, "no changes that will cause failure to meet surface water "good" ecological status or potential (where potential relates to HMWB or AWB) or result in a deterioration of surface water	Potential loss of unknown heritage buried in intertidal zone.	No recreation and amenity issues relating to this industrial coastal unit.

The above provides the local details in respect of the SMP-wide Plan; therefore the above must be read in the context of the wider-scale issues and policy implications, as presented in the preceding sections and Appendices to this Plan document.

				ecological status/potential"		
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