



Lake Okeechobee Watershed Project and Western Everglades Restoration Project – Planning Update

**Matt Morrison, Federal Policy Chief
Everglades Policy & Coordination Division
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South Florida Ecosystem Restoration Projects



Pre-CERP Foundation Projects

- ▶ Kissimmee River Restoration
 - ▶ Modified Water Deliveries
 - ▶ C-111 South Dade
- } Significant Progress / Nearing Completion

1st Generation CERP

- ▶ IRL-South
 - ▶ Site 1 Impoundment
 - ▶ Picayune Strand
- } Under Construction

2nd Generation CERP

- ▶ C-43 Reservoir - Under Construction
- ▶ Broward County WPA - Design
- ▶ C-111 Spreader Canal - Operational
- ▶ Biscayne Bay Coastal Wetlands - Partially Constructed and Operational

Completed and Active Planning Studies

- ▶ Central Everglades Planning Project - Authorization Pending
- ▶ Loxahatchee River Watershed Restoration - Planning Underway

Synchronizing Priorities Integrated Delivery Schedule (IDS)

Project	Yellow Book Code	Year																				
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Federal Construction Cost (SFER)		41	138	142	190	204	141	212	192	195	221	213	166	200	144	151	100	0	0	0	0	0
Non-Federal Construction Cost (SFER)		43	139	161	161	77	119	55	39	142	141	141	210	192	192	192	123	123	0	0	0	0
Total Construction Cost (SFER)		84	277	303	350	282	260	267	231	338	362	354	396	392	336	343	223	123	0	0	0	0
Modified Water Deliveries to Everglades National Park*		●○○○	○○○○	○○○○	○○○○	○○○○	●															
Herbert Hoover Dike*		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Seminole Big Cypress*	OPE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Restoration Strategies*		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tamiami Trail Next Steps Phase 1*		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Kissimmee River Restoration		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
West Palm Beach Canal/STA-1E		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-111 South Dade Contract 8 & 9		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-111 South Dade PAICR		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Picayune Strand Restoration	OPE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Merritt Pump Station		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Faka Union Pump Station		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Manatee Mitigation and Flood Protection Features		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Miller Pump Station		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Remaining Features - Road removal & canal backfill		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Site 1 Impoundment	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Phase 1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Indian River Lagoon-South		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-44 Intake Canal	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-44 Reservoir	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-44 STA & Pump Station	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-23/24 Reservoir North	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-23/24 Reservoir South	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-23/24 STA	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-25 Reservoir	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-25 STA	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Natural Lands	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Decomp Physical Model	Q	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Caloosahatchee River (C-43) West Basin Storage		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pump Station & Cell 1	D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cell 2	D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Broward County Water Preserve Areas		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-11 Impoundment	Q	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
WCA 3A&3B Seepage Management	O	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-9 Impoundment	R	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Biscayne Bay Coastal Wetlands Phase 1	FFF, OPE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
L-31 East Flowway		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cutler Wetlands		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-111 Spreader Canal Western Project		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Central Everglades Planning Project (Authorization WRDA 2016)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PPA South: LRR & PPA Execution		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Remove Old Tamiami Trail (CNTX)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
L-67A Structure 1 & Gap in L-67C Levee (CNT 3)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Increase S-356 (CNT 4)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
L-29 Gated Spillway (CNT 4b)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Increase S-333 (CNT 4a)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
L-67A Structures 2 & 3 (CNT 5)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Removal L-67C & L-67 Ext, Constr L-67D Levee (CNT 6)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Removal L-29 Levee & Backfill L-67 Ext (CNT 7)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PPA North	OO, II, G	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PPA New Water	V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Loxley River Watershed Restoration Project	X, Y, K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Lake Okeechobee Watershed, ASR		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Big Cypress/L-28 Interceptor (Western Everglades)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EAA Storage		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C-111 Spreader Canal Eastern & BBCW Ph2		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

- Lake Okeechobee Watershed, ASR
- Big Cypress/L-28 Interceptor (Western Everglades)

- Developed through a public process
- Formal re-evaluation of the Integrated Delivery Schedule (IDS) was completed in November 2015
- Identifies two upcoming CERP planning efforts

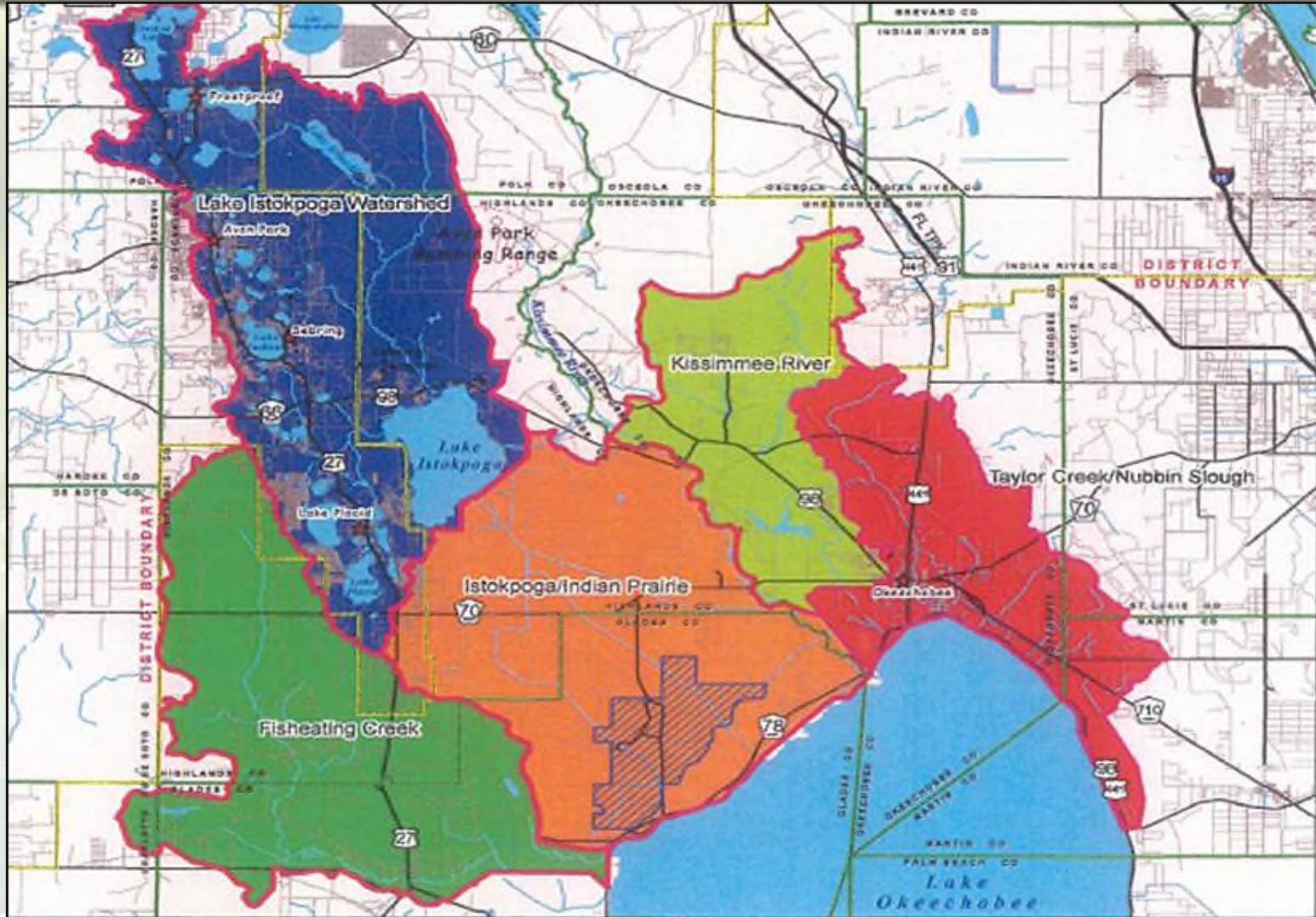
Lake Okeechobee Watershed Project

- Conceptual storage and treatment features from the Comprehensive Review Study (1999 Yellow Book) in the following regions:
 - Kissimmee River Region – Storage and Treatment
 - Lake Okeechobee Region – Aquifer Storage and Recovery
- Primary goals and objectives are to identify water storage and treatment features north of Lake Okeechobee to:
 - Improve Lake Okeechobee water levels and water quality
 - Reduce undesirable discharges to the Caloosahatchee and St. Lucie estuaries
 - Improve system-wide operational flexibility
- Assists with load reduction consistent with the Florida Department of Environmental Protection's Lake Okeechobee Basin Management Action Plan (BMAP)
- Consistent with the Governor's 20-Year Plan



Lake Okeechobee

Original Planning Boundary for the Lake Okeechobee Watershed Project



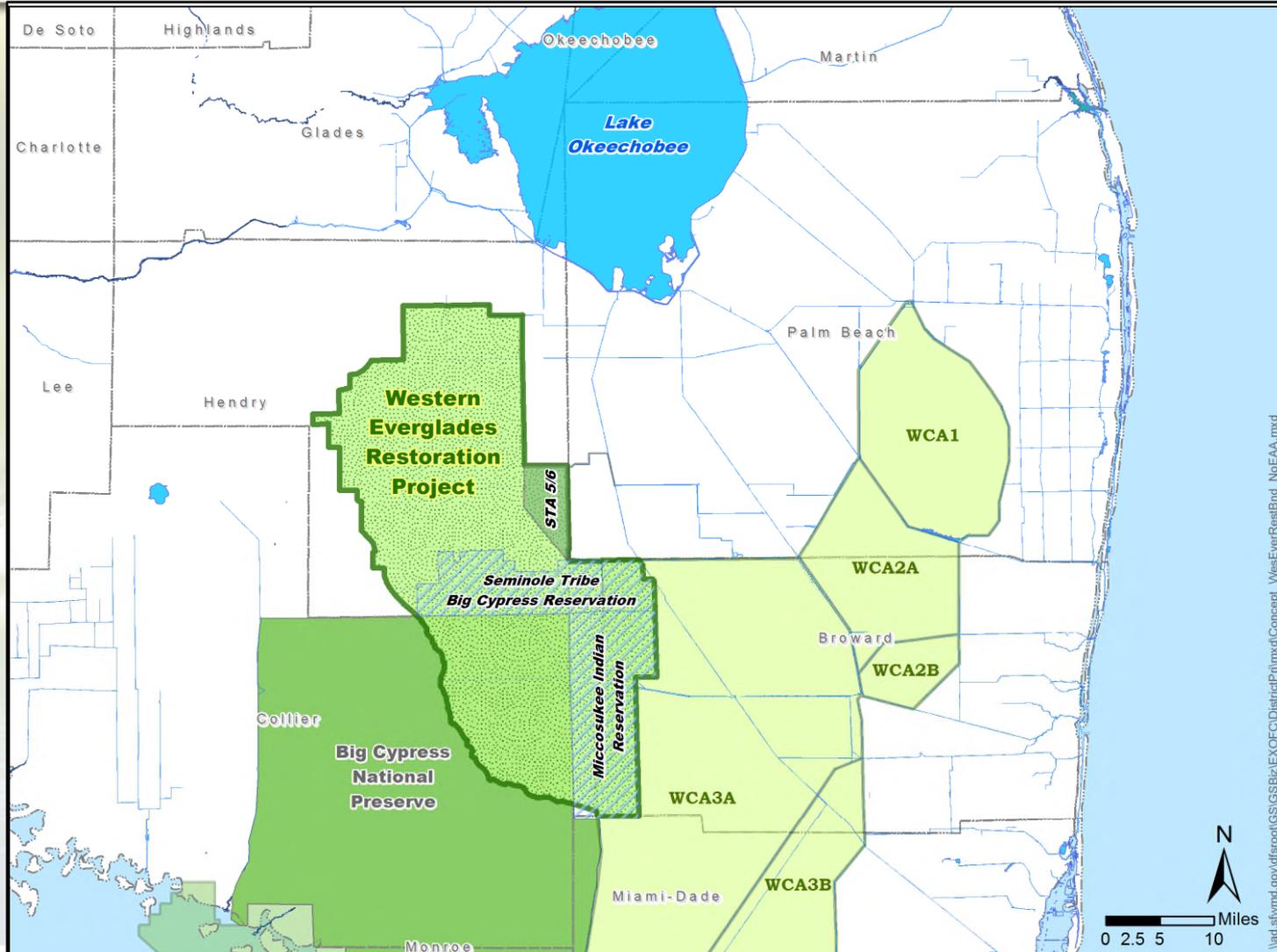
Western Everglades Restoration Project

- Identified in the Comprehensive Review Study (1999 Yellow Book) as the Big Cypress/L-28 Interceptor Modifications Feature
- Primary goals and objectives:
 - Improve the quantity, quality, timing and distribution of freshwater to natural areas
 - Reestablish sheetflow from the West Feeder Canal across the Big Cypress Reservation and into the Big Cypress National Preserve
 - Maintain flood protection
 - Feasibility analysis will investigate opportunities to improve system-wide operational flexibility
- Consistent with the Governor's 20-Year Plan



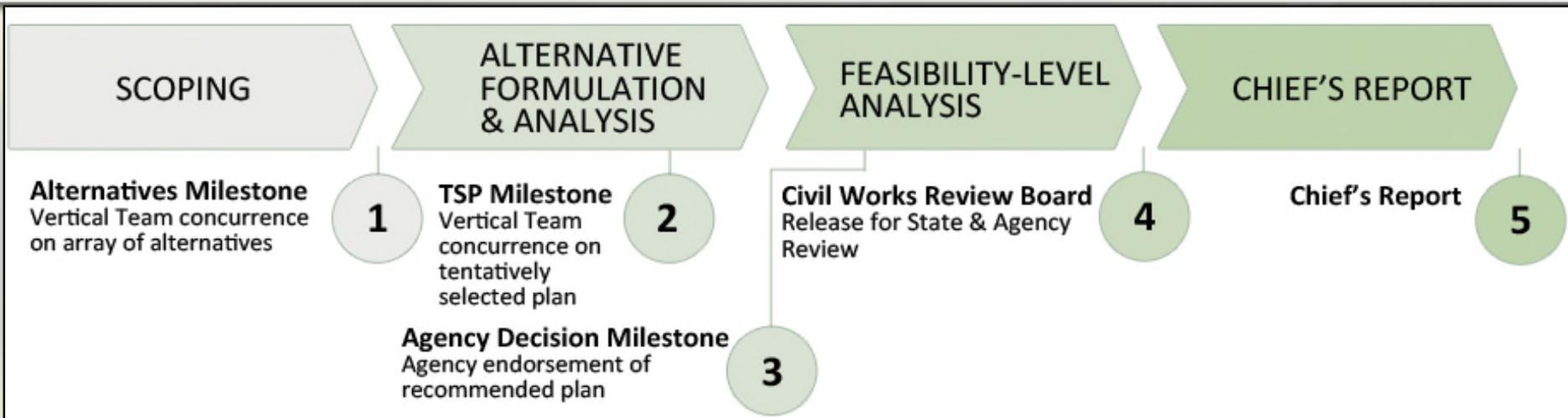
Big Cypress National Preserve

Conceptual Project Area for the Western Everglades Restoration Project



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Planning Process



- Project kick-offs – July/August
 - Specific dates subject to Project Delivery Team input
- Will employ the USACE's expedited three-year planning process
- Scoping phase will be completed within the first 90 days

South Florida Ecosystem Restoration Program: State Sponsorship

- Foundation Projects
- Generation 1 Projects
- Generation 2 Projects
- Existing Planning Studies
- Upcoming Planning Studies





Discussion