

Building a
Brighter
Future!

MAY 2021



DISASTER RECOVERY STATUS

FEMA 406 Funding

PW #	Island	Project Cost	Federal Share	Amount Disbursed	Available Federal Amount
193	STX	\$ 27,127.52	\$ 24,414.77	-	\$ 24,414.77
211	STJ	\$ 3,347.57	\$ 3,012.81	-	\$ 3,012.81
227	STX	\$ 115,932.94	\$ 104,339.65	-	\$ 104,339.65
240	STT	\$ 96,494.93	\$ 86,845.44	-	\$ 86,845.44
1054	STX	\$ 43,333.41	\$ 39,000.07	-	\$ 39,000.07
162	STX	\$ 8,800.00	\$ 7,920.00	-	\$ 7,920.00
182	STT	\$ 75,756.27	\$ 68,180.64	-	\$ 68,180.64
183	STT	\$ 24,007.36	\$ 21,606.62	-	\$ 21,606.62
60	STJ	\$ 181,634,211.78	\$ 163,634,211.78	\$ 58,741,063.07	\$ 104,893,175.71
85	WI	\$ 16,405,211.81	\$ 14,764,693.63	\$ 11,142,218.99	\$ 3,622,471.64
126	STX	\$ 317,883,610.18	\$ 286,095,249.16	\$ 198,258,043.16	\$ 87,837,206.00
226	STT	\$ 247,638.75	\$ 222,875.88	-	\$ 2,228,774.88
307	STT	\$ 143,096,692.82	\$ 143,096,692.82	\$ 143,096,630.27	\$ 62.55
1034	STT	\$ 11,153,166.00	\$ 10,037,849.40	\$ 4,931,726.98	\$ 5,106,122.42
86	STT	\$ 100,000.00	\$ 90,000.00	-	\$ 90,000.00
158	STT	\$ 20,629,452.44	\$ 18,566,507.20	\$ 5,832,037.72	\$ 12,734,469.48
522	STT	\$ 243,725.63	\$ 219,353.07	-	\$ 219,353.07
548	STT	\$ 4,074,396.49	\$ 3,666,956.84	\$ 6,480.00	\$ 3,660,476.84
1048	STX	\$ 553,852.04	\$ 498,466.84	-	\$ 498,466.84
1053	STT	\$ 118,617.86	\$ 106,756.07	-	\$ 106,756.07
1121	STX	\$ 1,037,622.43	\$ 933,860.19	-	\$ 933,860.19
Totals		\$ 642,288,792.88	\$ 422,008,200.19	\$	\$ 222,286,515.69

* On April 22, 2021 PW 307 was obligated for an additional \$184M

FEMA 404 Funding

PROJECTS NAME	ESTIMATED PROJECT COSTS	OBLIGATED AMOUNT	FEDERAL FUNDS DISBURSED	AVAILABLE FEDERAL SHARE	STATUS
STT Microgrid (Est. Bovoni)	\$ 125,611,021.00	-	-	-	Submitted to FEMA 404 Obligated
STX Microgrid (Adventure)	\$ 129,688,384.00	-	-	-	Submitted to FEMA 404 Obligated
TOTAL	\$ 255,299,405.00				

*On April 5, 2021 FEMA approved \$4,486,000 for phase I of the Western St. Croix Microgrid Project

CDBG-DR Funding

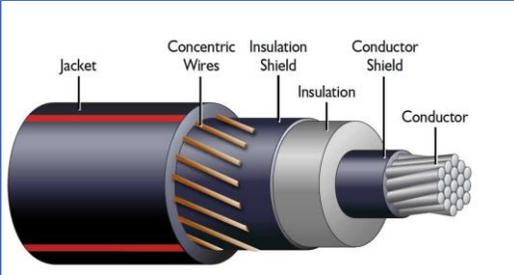
CDBG-DR PROJECTS					
PROJECTS NAME	ESTIMATED PROJECT COSTS	OBLIGATED AMOUNT	FEDERAL FUNDS DISBURSED	AVAILABLE FEDERAL SHARE	
Randolph Harley Power Plant Expansion Project	\$ 95,903,330.00	\$ 9,590,330.00	\$ 7,514,298.60	\$ 88,389,031.00	
STX Microgrid (Adventure)	\$ 129,688,384.00	-	-	-	
TOTAL	\$ 225,591,714.00				

*On April 5, 2021 FEMA approved \$4,486,000 for phase I of the Western St. Croix Microgrid Project

LOCAL COST MATCH					
PROJECTS NAME	COST SHARE AMOUNT	ORIGINAL DATE SUBMITTED	FEDERAL FUNDS DISBURSED	DATE OF RECEIPT	
PW 60 (STJ)	\$ 5,393,053.31	5/11/2020	-	-	
PW 85 (WI)	\$ 265,870.27	6/3/2020	-	-	
PW 307 (STT)	\$ 13,495,388.17	10/26/2020	-	-	
PW 126 (STX)	\$ 20,877,377.04	3/29/2021	-	-	
TOTAL	\$ 40,031,688.79				

*Awaiting approval of PW 126 application to submit payment request

Hazard Mitigation Project Methodology



Composite Poles

- ✓ Harden Remaining Overhead System
- ✓ Lightly Populated Areas
- ✓ Terrain Prohibitive Areas

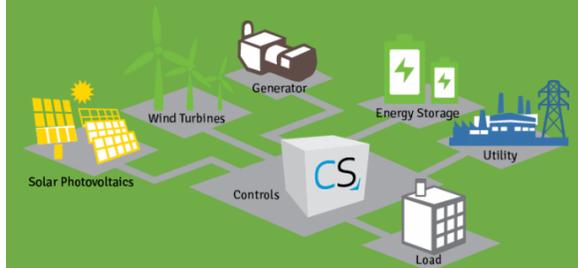


New Generation

- ✓ Replace aging units with smaller more efficient generators per IRP
- ✓ Install Battery storage at Generation Site

Renewable Energy

- ✓ Integrate solar & wind
- ✓ Install smart controls
- ✓ Install Battery Storage



Underground Infrastructure

- ✓ Primary Backbones
- ✓ Critical Facilities
- ✓ Densely Populated Areas



TERRITORIAL MITIGATION PROJECTS - ELECTRIC



St. Thomas

- Underground (406)
- Composite Poles (406)
- Substation GIS Projects (406)
- AMI Projects (406)
- Asset GIS/GPS Mapping (Cat F)
- New Generation (HUD)
- Microgrid Project (404)
- Control Centers (406)
- Submarine Transmission Cable (406)



St. Croix

- Underground (406)
- Composite Poles (406)
- Control Centers (406)
- AMI Projects (406)
- Asset GIS/GPS Mapping (Cat F)
- New Generation (HUD)
- Microgrid Project (404)
- Renewable Energy Project (HUD)



St. John

- Underground (406)
- Composite Poles (406)
- Substation GIS Projects (406)
- AMI Projects (406)
- Asset GIS/GPS Mapping (Cat F)
- Emergency Generation (406)
- Microgrid Project (406)



Water Island

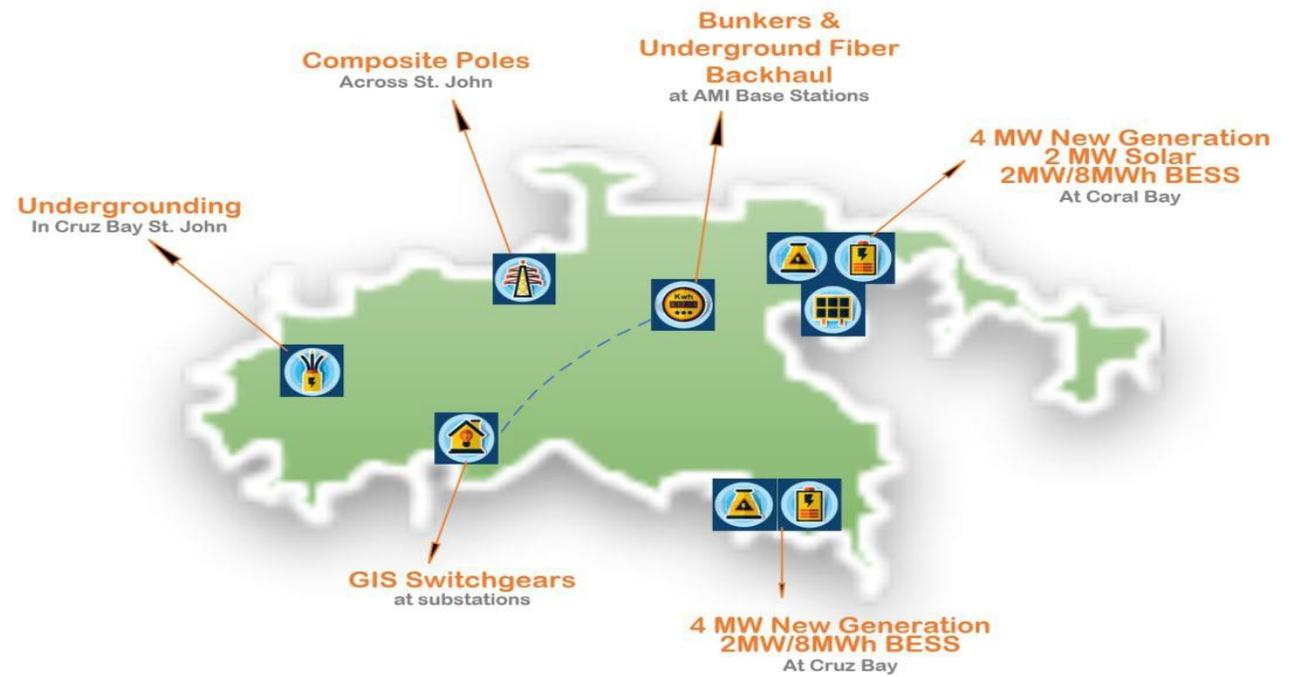
- Composite Poles (406)
- Asset GIS/GPS Mapping (Cat F)
- Microgrid Project (406)

- Installation of new generation at Richmond Power Plant with Battery Storage (HUD)
- Installation of solar generation at Adventure in St. Croix with Battery Storage (404)
- Installation of solar generation at HERA in St. Croix with Battery Storage (HUD)
- Installation of wind generation at Longford with Battery Storage (HUD)
- Underground Installations on all primary transmission & distribution feeders to include critical facilities & underground to over 50% of customers (406)
- Composite Pole installations on all remaining primary and secondary circuits (406)
 - 4,003 on St. Croix
- AMI Project (406):
 - Install concrete bunkers for AMI base stations Underground Fiber Backhaul to Towers
 - Connect more FAPs & AMI collectors
- Construction of Control Centers for Production & T&D operations (406)



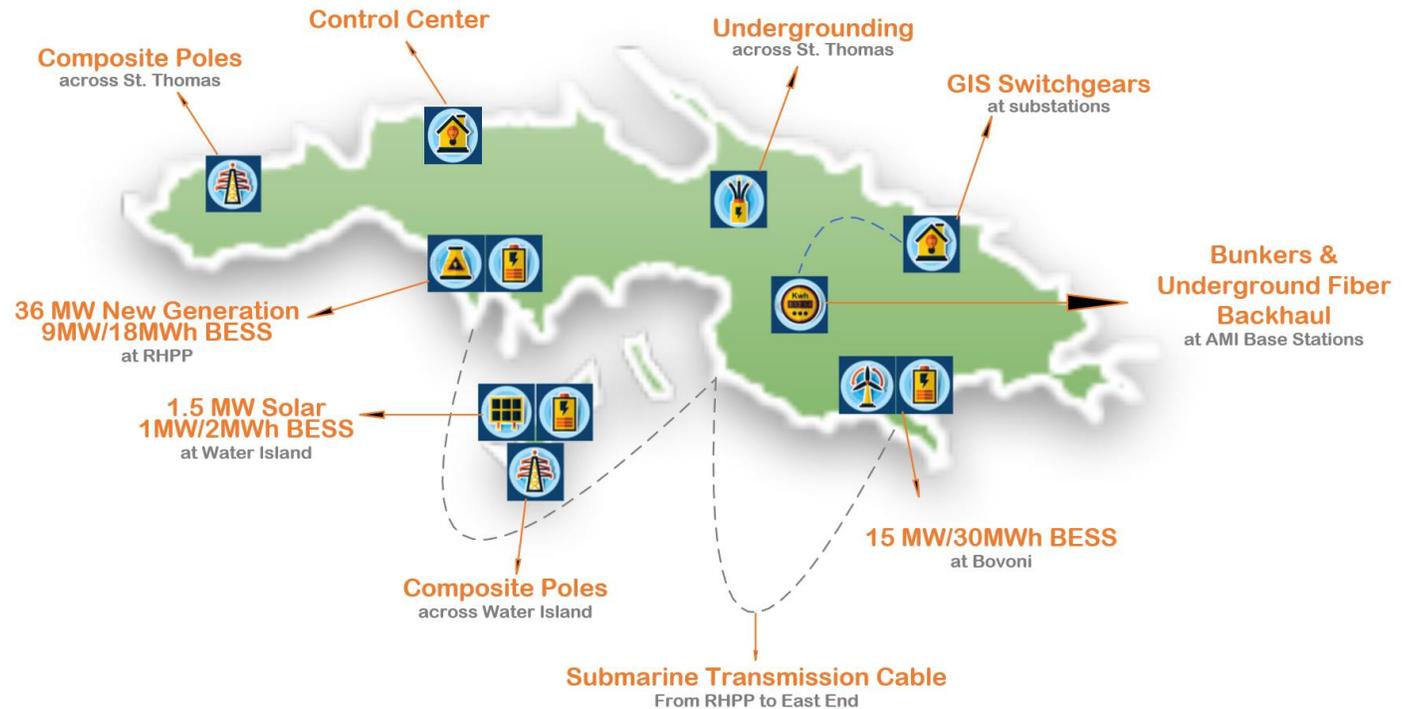
PROJECT OVERVIEW – ST.CROIX

- Installation of two emergency generators in St. John with Battery Storage (406)
- Installation of solar generation in Coral Bay, St. John with Battery Storage (406)
- Gas Insulated Switchgear and emergency generator installations at substation on St. John (406)
- Underground Installations on all primary transmission & distribution feeders to include critical facilities & underground to over 50% of customers (406)
- Composite Pole installations on all remaining primary and secondary circuits (406)
 - 1,960 on St. John
- AMI Project (406):
 - Install concrete bunkers for AMI base stations Underground Fiber Backhaul to Towers
 - Connect more FAPs & AMI collectors



PROJECT OVERVIEW – ST. JOHN

- Installation of substation, microgrid controls and Battery Storage at Bovoni (404)
- Installation of new generation at the Randolph Harley Power Plant with Battery Storage (HUD)
- Installation of solar generation on Water Island with Battery Storage (406)
- Underground Installations on all primary transmission & distribution feeders to include critical facilities & underground to over 50% of customers (406)
- Composite Pole installations on all remaining primary and secondary circuits (406)
 - 2,333 poles on St. Thomas
 - 200 on Water Island
- Gas Insulated Switchgear and emergency generator installations at substations on St. Thomas and St. John (406)
 - Tutu, DCF, East End & St. John Substations
- AMI Project (406):
 - Install concrete bunkers for AMI base stations Underground Fiber Backhaul to Towers
 - Connect more FAPs & AMI collectors
- Construction of Control Centers for Production & T&D operations (406)



PROJECT OVERVIEW – ST. THOMAS & WATER ISLAND



Composite Pole Project

	St. Thomas	St. John	Water Island	St. Croix
Contractor	Haugland	BBC	Haugland	Haugland
Total Poles	2,333	1,960	200	4,003
Poles Installed	813	966	200	1,453
Status	35%	49%	100%	36%





East End Substation



Phase 1:

ABB - \$4,336,673.00

- 34.5 kV GIS

Haugland Energy - \$3,463,100.54

- Concrete Buildings
- Control Room
- Emergency Generator



Phase 2:

Haugland Energy - \$1,164,565.67

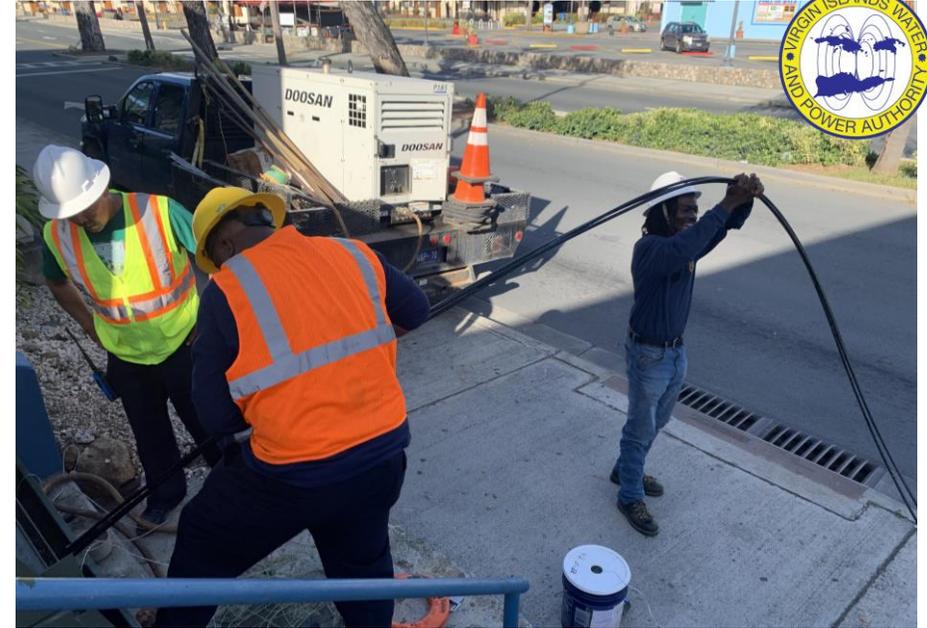
- 13.8 kV GIS



St. John Power Transformer Replacement Project

RG Engineering - \$2,334,900.00

- Replacement of E-T2 Power Transformer



AMI Project

- Underground Fiber
- Concrete Bunkers
- Installation of additional Collectors and Antennas



Midland Underground

- VI Paving - \$2,956,046.00
- 8,577 Customers



Golden Grove Underground

- VIVOT - \$1,704,862.00
- 33 Customers



Container Port Underground

- J. Benton - \$2,528,500.00
- 10 Customers



Underground Projects St. Croix



Maho Bay - End of North Shore UG

Myrah Keating - ENd of Centerline UG

Westin - End of Southshore UG

Cruz Bay, St. John Underground Project

1,800 Customers





STX Western Microgrid Project

- Adventure Hill PV Array – 18 MW
- Gregory Willocks Battery Storage – 20 MWH
- Overall Cost - \$126,635,382
- Phase I Award- \$4,486,720.23

Engine 2
(PAAE331451) at PCT
– Vaasa, Finland

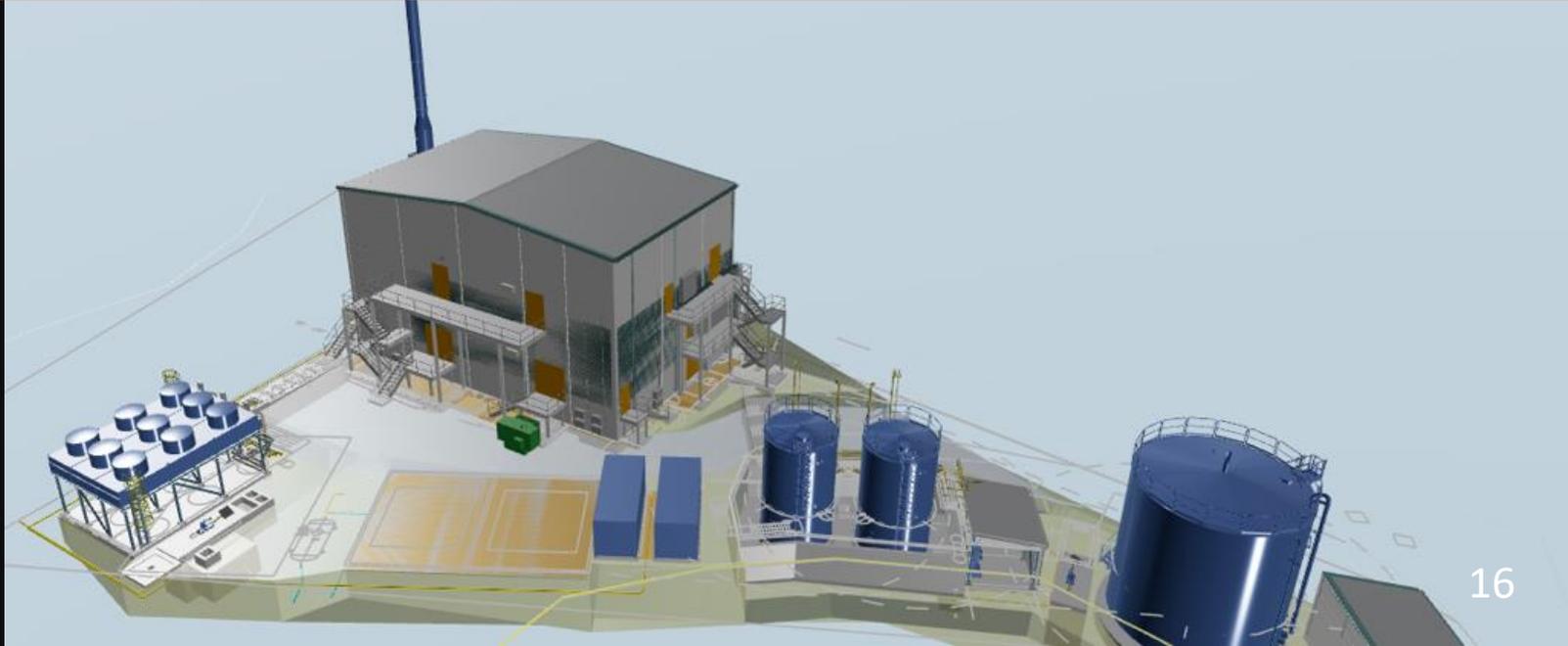
- Allocation -
\$95,903,330.00

New Generators



3D Rendering - Frank
Bay, St. John

- Engineering -
\$3,342,350





Station Service Hardening Project for Harley and Richmond Power Plant (480V Switchgear, Battery Storage, 1MW Black Start Generator)

Project Challenges & Solutions

- ✓ Rigorous funding requirements
- ✓ Delays in funding obligations
- ✓ Delays in paying vendors
- ✓ Increasing industry cost for materials
- ✓ Delays in permitting



- ✓ Capacity Building
- ✓ Engaging Experts
- ✓ Collaboration of Efforts
- ✓ Project Planning
- ✓ Expedited permitting process
- ✓ Coordination



Water Distribution





TERRITORY MITIGATION & REHABILITATION PROJECTS - WATER



■ St. Croix

- **Christiansted Rehabilitation Phase II (EPA/DPNR) – Completed March 17, 2021**
- **Frederiksted Rehabilitation Phase II (EPA/DPNR & PFA) – In-progress May 31, 2021**
- **Clifton Hill Rehabilitation** – Proposed Start 3rd Quarter 2021- \$3.5 Mil.
Drinking Water Capital Improvement Grant – EPA/DPNR
- **Hannah’s Rest Rehabilitation** – Proposed Start 4th Quarter 2021- (Design/Engineering)
Drinking Water Capital Improvement Grant – EPA/DPNR
- **Campo Rico Rehabilitation** – Proposed Start 4th Quarter 2021- (Design/Engineering)
Drinking Water Capital Improvement Grant – EPA/DPNR
- **Strawberry & Baron Stop Waterline Expansion** – (Pending Tranche 3 funding)
Department of Housing and Urban Development (HUD)
- **System Wide Water Line Replacement** (Pending Validation and Approval)
FEMA – Pending Approval

Pending System Wide Replacement

- **Concordia to Kingshill Waterline Rehabilitation (FEMA)**
- **Richmond to Concordia Waterline Rehabilitation (FEMA)**
- **Contentment to Kingshill Waterline Rehabilitation (FEMA)**
- **Kingshill West Waterline Rehabilitation (FEMA)**
- **Kingshill East Waterline Rehabilitation (FEMA)**





TERRITORY MITIGATION & REHABILITATION PROJECTS - WATER



■ St. Thomas

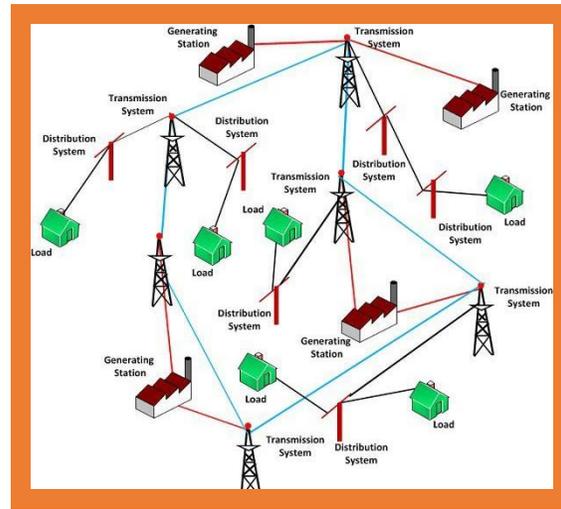
- Anna's Retreat Waterline Extension Phase II (HUD)
Application in progress at HFA
- Slope Stabilization (HUD) (Pending Tranche 3 funding)
Tanks Donoe, # 3 & 4 Retaining Walls,
- Smith Bay & Frydendahl Waterline Extension (HUD)
Application in progress at HFA
- Nazareth Waterline Extension (HUD) (Pending Tranche 3 funding)
- Bolongo Waterline Extension (HUD) (Pending Tranche 3 funding)
- Wintberg Waterline Extension (HUD) (Pending Tranche 3 funding)



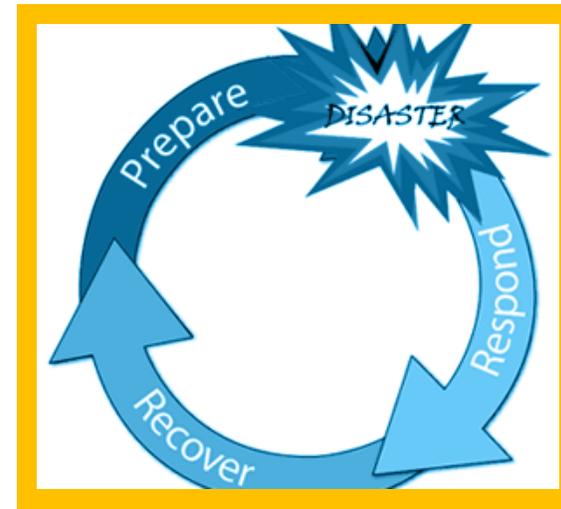
Thank you from our team



Project Management



Electric Systems



Disaster Recovery



Water