Building a Brighter Future!

COMMITTEE ON DISASTER RECOVERY & INFRASTRUCTURE

April 29, 2021
DISASTER RECOVERY STATUS AS OF MARCH 2021

FEMA 406 Funding

<table>
<thead>
<tr>
<th>PW #</th>
<th>Island</th>
<th>Project Cost</th>
<th>Federal Share</th>
<th>Amount Disbursed</th>
<th>Available Federal Amount</th>
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</thead>
<tbody>
<tr>
<td>193</td>
<td>STX</td>
<td>$27,127.52</td>
<td>$24,414.77</td>
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<td>$24,414.77</td>
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<tr>
<td>211</td>
<td>STJ</td>
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<td>227</td>
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<td>STT</td>
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<td>158</td>
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<td>$933,860.19</td>
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</tbody>
</table>

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

FEMA 404 Funding

<table>
<thead>
<tr>
<th>PROJECTS NAME</th>
<th>ESTIMATED PROJECT COSTS</th>
<th>OBLIGATED AMOUNT</th>
<th>FEDERAL FUNDS DISBURSED</th>
<th>AVAILABLE FEDERAL SHARE</th>
<th>STATUS</th>
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<tbody>
<tr>
<td>STT Microgrid (Est. Bowie)</td>
<td>125,611,021.00</td>
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<td>-</td>
<td>-</td>
<td>Submitted to FEMA</td>
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<tr>
<td>STX Microgrid (Adventure)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>Submitted to FEMA</td>
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</tbody>
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*TOTAL $255,299,325.00

*On April 5, 2021 FEMA approved $4,406,000 for phase 1 of the Western St. Croix Microgrid Project

CDBG-DR Funding

<table>
<thead>
<tr>
<th>PROJECTS NAME</th>
<th>COST SHARE AMOUNT</th>
<th>ORIGINAL DATE SUBMITTED</th>
<th>FEDERAL FUNDS DISBURSED</th>
<th>DATE OF RECEIPT</th>
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<tbody>
<tr>
<td>PW #1 (CT)</td>
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<td>-</td>
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<tr>
<td>PW #2 (CT)</td>
<td>$16,574,827.00</td>
<td>6/12/2020</td>
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<td>-</td>
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<tr>
<td>PW #3 (CT)</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>PW #4 (CT)</td>
<td>$20,987,677.84</td>
<td>2/29/2021</td>
<td>-</td>
<td>-</td>
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</table>

*TOTAL $60,351,188.19

*Awaiting approval of PW #4 application to submit payment request
Hazard Mitigation Project Methodology

Underground Infrastructure
✓ Primary Backbones
✓ Critical Facilities
✓ Densely Populated Areas

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
- St. Thomas
  - Underground (406)
  - Composite Poles (406)
  - Substation GIS Projects (406)
  - AMI Projects (406)
  - Asset GIS/GPS Mapping (Cat F)
- St. Croix
  - Underground (406)
  - Composite Poles (406)
  - Control Centers (406)
  - AMI Projects (406)
  - Asset GIS/GPS Mapping (Cat F)
- St. John
  - Underground (406)
  - Composite Poles (406)
  - Substation GIS Projects (406)
  - AMI Projects (406)
  - Asset GIS/GPS Mapping (Cat F)
- Water Island
  - Composite Poles (406)
  - Asset GIS/GPS Mapping (Cat F)

- New Generation (HUD)
- Microgrid Project (404)
- Control Centers (406)
- Submarine Transmission Cable (406)
- Emergency Generation (406)
- Microgrid Project (406)
- Renewable Energy Project (HUD)
- 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)
➤ 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
➢ 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)
## Composite Pole Project

<table>
<thead>
<tr>
<th></th>
<th>St. Thomas</th>
<th>St. John</th>
<th>Water Island</th>
<th>St. Croix</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Contractor</strong></td>
<td>Haugland</td>
<td>BBC</td>
<td>Haugland</td>
<td>Haugland</td>
</tr>
<tr>
<td><strong>Total Poles</strong></td>
<td>2,333</td>
<td>1,960</td>
<td>200</td>
<td>4,003</td>
</tr>
<tr>
<td><strong>Poles Installed</strong></td>
<td>813</td>
<td>966</td>
<td>200</td>
<td>1,453</td>
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<tr>
<td><strong>Status</strong></td>
<td>35%</td>
<td>49%</td>
<td>100%</td>
<td>36%</td>
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</tbody>
</table>
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
Underground Projects St. Croix

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
Cruz Bay, St. John Underground Project

1,800 Customers
Cruz Bay, St. John Underground Project
Haugland VI - $11,905,690.00
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
New Generators

Engine 2
(PAAE331451) at PCT
– Vaasa, Finland

- Allocation -
  $95,903,330.00

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

Presented By: Don Gregoire
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)
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