

VIRGIN ISLANDS WATER & POWER AUTHORITY

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July 13, 2022

Mr. Donald Cole Executive Director Public Services Commission P.O. Box 40 St. Thomas, VI 00804-0040

#### Re: Minimum Filing Requirements, Semi-Annual Reports

Dear Director Cole:

The Authority is hereby submitting the proposed revised Minimum Filing Requirements (MFRs) for Electric and Water LEAC filings. The proposed MFRs were developed through collaboration between the Public Service Commission ("PSC" or "Commission") and the Water and Power Authority. Included with this transmittal letter is a detailed explanation of the revised MFRs and proposed schedules.

#### PROPOSED MINIMUM FILING REQUIREMENTS FOR ELECTRIC AND WATER LEAC RATE FILINGS

The proposed modification to the Commission's MFRs contained herein seeks to improve and streamline the LEAC process. Figures and estimates included herein are purely illustrative in purpose. The proposed MFR's and associated schedules *IN NO WAY REFLECT A REQUEST TO CHANGE RATES*, LEAC or otherwise.

Accordingly, please note that in the attached schedules the figures and calculations underlying the most recent full LEAC petition covering July-December 2021 are included so that the inputs and calculations can be followed. Given that the proposed MFRs do not reflect a LEAC filing, but rather a proposal for the structure of the future LEAC process, prospective figures and calculations in the schedules are left blank or a subset of data is included (for example one

# month out of the six months), but the proposed LEAC column is included so that the layout and contents of the schedules can be followed.

These proposed modifications to the PSC's MFRs are designed to streamline and make the existing LEAC ratemaking process more efficient while providing the PSC a complete record for, and to assist in, its review of Petitions to modify the LEAC rates for the Water and Power Authority's ("WAPA") Electric and Water Departments. The Commission, through its agents, may seek additional information that supports information provided in the MFRs from WAPA through an established discovery process and informal discussions, if necessary.

WAPA's rate petition inclusive of a transmittal Cover Letter, MFR Worksheets, and any related follow-up requests and responses detailing data provided in the MFR Worksheets are all part of the record. Informal discussions between the Commission's agents and WAPA's representatives are not part of the record.

The proposed MFR's consist of two major components: (i) a Cover Letter outlining key elements of the filings and (ii) Worksheets that provide relevant data and calculations in support of the requested LEAC rate.

### 1. Cover Letter to the Commission

A Cover Letter to the Commission shall be submitted in lieu of pre-filed written testimony. The Cover Letter will contain the following information and indicate in the narrative the location within the MFR Worksheets of any supporting data contained in the Petition:

- **1.1** The proposed LEAC rates
- **1.2** Explanation of the impact of the requested LEAC rate adjustment on typical consumers' bills and illustration of impacts based on a range of average kWh usage
- **1.3** If applicable, WAPA's position supporting the amortization period if it seeks to recover any deferred fuel balance. (*Calculation to be determined in supplemental petition*)
- **1.4** Identification of any material changes in operations from the prior LEAC rate period that support the need for the requested rate adjustment, to include, but not be limited to the following:
  - **1.4.1** Changes in equipment utilized for production of electricity or water, scheduled equipment outages, maintenance management planning, unit efficiencies, and plant condition from the prior LEAC rate period
  - 1.4.2 Changes in purchased energy prices and non-electricity revenue
  - **1.4.3** Description of fuel supply and fuel diversity
  - **1.4.4** Description of any changes in WAPA's fuel hedging program, inclusive of the number of hedges, size of hedges, price of the hedge and expiration date of hedges
- **1.5** Status of renewable energy production and changes in renewable energy and costs
- 2. Content of the Petition the Petition for the proposed LEAC rate shall contain information in the form of worksheets (Detailed in Section 2.2 through 2.4) that define the overall

performance of the utility for the six-month projected period and the resulting impact on LEAC rates.

Historical information for the Electric System shall consist of actual data for the current, as approved six month LEAC period and where applicable, the same six month time period of the proposed rate change from the previous year.

The historical information for the Water System (Detailed in Section 2.5) consists of actual data for the same twelve-month period for the prior year.

## 2.1 Electric LEAC Petition MFR Worksheets

The following serves to present illustrative examples of the MFR worksheets to be submitted to the Commission in an electronic format acceptable to the Commission. Examples of the MFR worksheets are included as templates in the exhibits attached and are for illustrative purposes only. In some cases, the worksheets are simply blank templates and in others, data has been populated as sample data and does not represent any request for rate action on behalf of the PSC by WAPA.

## 2.2 OUTPUT PROCESS MFR's

2.2.1 <u>Proposed LEAC Rate (Worksheet 1)</u> This Worksheet presents the proposed LEAC Rate for the upcoming semiannual period and identifies the authorized components of the proposed LEAC

rate.

2.2.2 <u>Comparison of Rate Change Forecast (Worksheet 2)</u>

This Worksheet provides all of the factors that comprise the proposed LEAC rate with a comparison to the current LEAC rate in effect including factors such kWh sales, fuel cost, energy production, fuel purchased and consumed, and eligible non-fuel costs.

- **2.2.3** <u>Consumer Retail Rate Impact (Worksheet 3)</u> This Worksheet provides the impact the proposed LEAC rate will have on the typical monthly consumer bill for different classes of customers.
- 2.2.4 <u>Comparison of Fuel Parameters (Worksheet 4)</u> This Worksheet provides a comparative analysis of the parameters impacting fuel expense in the proposed period compared to the current period. It breaks down the current fuel costs portion of the LEAC rate based on energy

## 2.3 ANALYSIS PROCESS MFR's

**2.3.1** <u>Production Costing and Fuel Cost Summary (Worksheet 5)</u>

requirements, sales, heat rates, and fuel consumed.

This Worksheet takes the detailed unit fuel usage output from the production costing worksheet (Worksheet 10) and combines that data with the latest future fuel forecast (Worksheet 13) of fuel prices by type based using the fuel

pricing index and pricing premiums included in the WAPA's contracts, if any.

2.3.1.1 Hedging Activity

If there are hedging activities the following shall be detailed in a Worksheet for the relevant LEAC period: summary of hedge contracts (financial or physical), expiration dates, hedging pricing levels, and percent of projected volumetric fuel purchases hedged to determine if an adjustment to the market cost of fuel is needed to reflect the impact of WAPA's realized fuel price as a result of hedging. We note that it is unlikely that in WAPA's current financial condition that engaging in fuel hedging is feasible. As with deferred fuel we recommend that development of any hedging impacts as part of the LEAC process be deferred to a time when such activity could be initiated.

2.3.2 LEAC Rate Calculation (Worksheet 1)

This Worksheet takes the output from the production costing worksheet and combines it with the output of the Eligible Non-Fuel LEAC expenses to determine the proposed LEAC rate.

### 2.4 INPUT PROCESS MFR's

2.4.1 Consumer Billing Forecast (Worksheet 6)

This Worksheet provides a forecast of WAPA billings to its various customer classes. It is a new worksheet and will identify all authorized billings including those metered and unmetered. As stipulated by previous order of the Commission, two NRE (Non-Recoverable Electricity) components are to be added to the billing forecast to arrive at the energy production requirement (generation necessary to provide for sufficient energy production to support the projected billings). As of this filing, these two components are been set at a level of 6.6% (to account for line loss) and 2.5% (to account for WAPA's internal use). A brief accompanying narrative describing how the forecast was derived should be provided.

2.4.2 <u>Renewable Power & Energy Forecast (Worksheet 7)</u>

This Worksheet provides a forecast of all non-WAPA sources of power and energy as well as WAPA owned sources of non-thermal power and energy. This forecast will be based on recent generation from the renewable sources and known changes to the renewable generation mix for the upcoming LEAC period (additional capacity on-line, known maintenance schedules, etc).

- 2.4.3 <u>Thermal Power & Energy Forecast (Worksheet 8)</u> This Worksheet combines the Consumer Billing Forecast (Worksheet 6) with the Renewable Power and Energy Forecast (Worksheet 7) for the purposes of determining the Thermal Power and Energy Forecast to be used by the Production Costing (Economic Dispatch) model to determine all fuel related parameters of WAPA's thermal units for the forecast period.
- 2.4.4 <u>Production Costing Model Thermal Units Economic Dispatch (Worksheets</u> <u>9a - 9d)</u>

These Worksheets replaces the dispatch worksheets contained in the existing MFR's and summarize the output of the production costing analysis which is

performed by WAPA using a commercially available program for the purposes of providing for each thermal unit for the forecast period unit megawatt-hour generation and fuel consumption in terms of MMBtu's and ultimately provide a quantity of fuel needed to complete the LEAC rate calculation. Necessary supporting data inputs required to undertake the production costing analysis include the following (which should be provided for each generating unit):

- Renewable Capacity and Energy Parameters
- Load Curve & Peak Demand Parameters
- Thermal Generating Unit Fuel and Operational Parameters, including:
  - Generation capacity
  - Forced outage rates
  - Planned maintenance schedules
  - Fuel Type
  - Heat rate curves (Unit efficiencies at varying loads)
- 2.4.5 Water System Reimbursable Costs (Worksheet 10)

This Worksheet should identify non-fuel water charges incurred in the production of power and energy. These charges are related to the supply of ultra-pure Reverse Osmosis (RO) water for emission control and power production make up water. This worksheet currently identifies the energy sales by WAPA to a third-party contractor who supplies RO water production. It may be desirable to move these electricity sales for RO water into the new Consumer Billing Forecast (Worksheet 7).

- 2.4.6 Other Eligible LEAC Costs (Worksheet 11) This Worksheet should detail any additional costs or deductions that should apply to the calculation of the LEAC rate. This can include regulatory costs of WAPA, RO water expenses for plant operations, charges to the Water Department, or any other item approved by the Commission.
- 2.4.7 <u>Final Fuel Futures Pricing Forecast (Worksheet 12)</u> This Worksheet should provide forecasted fuel prices by type for the projection period using the fuel pricing index included in WAPA's fuel procurement contracts plus contractual transportation costs.

#### 2.5 MFR Worksheets to Water LEAC Petition

Because the Water LEAC review process occurs only once per year, and there have been few or no issues with that analysis in the recent past, it is recommended that the MFR process for the Water LEAC remain unchanged as detailed below.

• Worksheet 1: Differential Analysis

This Worksheet presents the proposed Water LEAC rate and compares the proposed Water LEAC rate components with the current as approved Water LEAC rate components.

- <u>Worksheet 2: Comparative Analysis Over 12 Months</u> This Worksheet compares the Water LEAC rate components on an annual basis.
- <u>Worksheet 3: Monthly Bill Comparison</u> This Worksheet compares the effect the change in the rate will have on the typical monthly bill.
- <u>Worksheet 4: Water Sales and Production Costs</u> This Worksheet reflects an annual comparison of the water sales and purchase and production costs for the projected year in comparison to the prior year.
- <u>Worksheet 5: Water LEAC True-Up</u> This Worksheet shows the deferred fuel/surplus balance and the period for which it is amortized. It also shows the change from the previous period to the current period. This should eventually tie into the deferred fuel process for the electric department that is proposed to be deferred currently.
- <u>Worksheets 6 and 7: Input Pages on Historical Water Sales and</u> <u>Purchase and Production Costs</u> This Worksheet identifies and quantifies the costs of purchased water and any contracts for which recovery of costs is sought.
- <u>Worksheets 8 and 9: Approved Water Sales and Costs</u> This Worksheet reflects the water sales and costs that were approved in the most recent Water LEAC proceeding
- <u>Worksheets 10 and 11: Projected Water Sales and Cost</u> This Worksheet reflects the projected water sales and costs for the proposed period of the rate change.

Annual Water System LEAC audits filed in the form of a worksheet with explanation and reconciliation of the audit worksheet to the figures provided in the financial reports for the water departments should be provided on an annual schedule determined by the Commission.

### 3. Timeline for Consideration of LEAC Petition

All days described herein shall reflect business days and business days shall mean days that the general government of the US Virgin Islands is open for business.

- **3.1** No later than ten (10) days from filing of the Petition, the Executive Director of the Commission shall confirm whether the filing of information required by the MFRs is complete.
- **3.2** If the filing is incomplete, the Executive Director will inform WAPA of the missing information within ten (10) days and the WAPA must provide the missing information within five (5) days of being notified that the Petition is incomplete.

- **3.3** WAPA and the Commission staff are encouraged to participate in an informal pre-discovery conference within twenty (20) days of the filing of the Petition. Additional conferences are encouraged by the Commission and supported by WAPA to foster a collaborate working relationship with Commission staff and WAPA to streamline the LEAC filing process and eliminate the need for formal discovery to the extent possible.
- **3.4** If informal pre-discovery conferences determine that there is a need for formal discovery, the discovery conference will trigger a thirty (30) day discovery period to be conducted as follows:
  - Commission staff to submit discovery requests to WAPA within ten (10) days of the discovery conference.
  - WAPA to respond to discovery requests within ten (10) days of receipt of discovery.
  - WAPA to submit objections to any discovery requests within five (5) days of receipt of discovery request.
  - The parties to meet and confer regarding any objections within five (days) of the receipt of the objections.
  - Commission staff to notify WAPA of incomplete discovery requests within five (5) days of receipt of incomplete discovery. The parties are to meet and confer regarding any incomplete discovery responses within five (5) days of the notification to WAPA by Commission staff of an incomplete discovery response and resolve to the extent possible.
- **3.5** The scope of discovery shall be limited to questions seeking clarification of information contained in the Petition, the Cover Letter, the exhibits submitted in support of the Petition and any other information directly related to the short-term cost of fuel or energy that is to be charged to customers through the proposed LEAC rate.
- **3.6** WAPA and Commission staff may conduct informal discussions to address any issues or concerns raised in the Petition to streamline the discovery process and to further the resolution of the Petition and are encouraged to do so.
- **3.7** The Commission staff shall submit its report to the Commission ten (10) days prior to any proposed Commission action. WAPA shall be copied at the same time.

WAPA shall submit a response to the report to the Commission within five (5) days of receipt of the report.

**3.8** The Commission to meet and consider the Petition within sixty (60) days of the filing of the Petition

Sincerely,

Andrew Smith CEO, Executive Director

Preliminary Draft - Work in Process / Subject to Material Change

Information contained herein has not been independently verified and is subject to material change based on continuing review. Accordingly, the information contained herein is not intended to be and should not be relied upon by any third party or as legal, auditing, or accounting advice.

The attached preliminary cash flow tool and their accompanying analyses, assumptions and underlying data are the product of U.S. Virgin Islands Water and Power Authority ("WAPA") and its management ("Management") and consist of information obtained solely from WAPA. With respect to prospective financial information relative to WAPA, there has not been any examination, compilation or application of agreed upon procedures to such information in accordance with attestation standards established by the AICPA. Consequently, no assurance of any kind is given with respect to, or on, the information presented. It is WAPA's responsibility to make its own decision based on the information available to it. Management has the knowledge, experience and ability to form its own conclusions related to WAPA's cash flow forecast. There will usually be differences between forecasted and actual results because events and circumstances frequently do not occur as expected and those differences may be material. As a result, no responsibility for the achievement of forecasted results is made. Accordingly, reliance on this report is prohibited by any third party as the projected financial information contained herein is subject to material change and may not reflect actual results.

Many of numbers set forth herein are estimates or based on assumptions which are subject to change. Such changes may be material and can materially affect the calculation of other amounts reflected herein.

All numbers are illustrative. Worksheets provided to outline future rate request procedures. Numbers do not represent any request for rate action on behalf of the PSC.

# U.S. Virgin Islands Water and Power Authority

## Worksheet 1: LEAC Rate

Line #		nt As Approved JI-Dec 2021	Proposed LEAC Jul-Dec 2022
	Sales		
1	Total Sales Forecast (MWh)	304,462	
	Costs to be Recovered (\$)		
2	Current Fuel Cost Portion of LEAC	\$ 50,628,577	
	Other Charges		
3	PSC Regulatory Costs	84,000	
4	Renewable Energy Costs	686,351	
5	Ultra Pure Water Charge	883,868	
6	Plant Repair RO Contract	122,787	
7	Total Other Charges	1,777,006	
8	Total Costs to be Recovered (Line 2+7)	\$ 52,405,583	
	LEAC Rate Calculation (¢/kWh)		
9	Current Fuel Cost Portion of LEAC	16.63	
	Other Charges		
10	PSC Regulatory Costs	0.03	
11	Renewable Energy Costs	0.23	
12	Ultra Pure Water Charge	0.29	
13	Plant Repair RO Contract	0.04	
14	Total Other Charges	0.58	
15	Total LEAC Rate (Line 9+14)	 17.21	

## Worksheet 2: Comparison of Rate Change

			Approved	Proposed LEAC		ross Refere	
Line #		Jul-De	c 2021	Jul-Dec 2022	WS	#	Line #
	LEAC Rate Summary (¢/kWh)						
1 2 3	LEAC Rate Current Fuel Costs All Other Total LEAC		16.63 0.58 17.21		1 1 1		9 14 15
	Energy Volumes						
4 5	Total Sales Forecast % Change vs. Currently Approved		304,462		1		1
	Average Thermal Heat Rates (BTU/kWh)						
6 7	Plant % Change vs. Currently Approved		12,095				
	Fuel Cost and Mix						
8 9	No. 2 Oil Average Price Delivered (\$/gal) % Change vs. Currently Approved	\$	2.44				
10 11	LPG Average Price Delivered (\$/gal) % Change vs. Currently Approved	\$	1.10				
12 13	Fuel Mix (MMBTU) No. 2 Oil LPG		33.1% 66.9%				

Worksheet 3: Consumer Retail Rate Impact

Line #		Rate Class						
		Residential	Commercial	Large Power				
1	Average Monthly Usage (kWh)							
2	Change in LEAC Rate (¢/kWh)							
3	Impact to Bill (Monthly)							

	Avg. Monthly Usage (kWh)	Change in LEAC Rate (¢/kWh)	Impact to Bill
4	200		
5	400		
6	600		
7	800		
8	1,000		
9	1,200		
10	1,400		
11	1,600		
12	1,800		
13	2,000		

### U.S. Virgin Islands Water and Power Authority

Worksheet 4: Comparison of Fuel Parameters

					I		
Line #			It As Approved	Proposed LEAC Jul-Dec 2022	,	Cross Refe WS #	rence Line #
		Ju		Jui-Dec 2022		VV 3 <i>T</i>	
	Fuel Consumption						
1	No. 2 Oil (MMBTU)		1,288,794				
2	LPG (MMBTU)		2,603,274				
3	Total Consumption (MMBTU) (Line 1+2)		3,892,068				
4	No. 2 Oil Heat Content		141,000				
5	LPG Heat Content		91,500				
6	No. 2 Oil Gallons - Line 1/4		9,140,383				
7	LPG Gallons - Line 2/5		28,451,082				
8	Total Gallons Required (Line 6+7)		37,591,465				
	Fuel Mix (MMBTU)						
9	No. 2 Oil		33.1%			2	12
10	LPG		66.9%			2	13
11	Plant Heat Rate (BTU/kWh)		12,095			2	6
	Fuel Prices (\$/Gal)						
12	No. 2 Oil - Delivered	\$	2.44			2	8
13	LPG - Delivered	+	1.10			2	10
14	Weighted Average - Delivered	\$	1.54				
	Fuel Costs (\$)						
15	No. 2 Oil - Delivered	\$	21,512,792				
16	LPG - Delivered		31,332,134				
17	Total (Line 15+16)	\$	52,844,926				
18	Less: Energy Charges to Water Department	\$	(2,216,349)				
19	Current Fuel Cost to be Recovered (Line 17+18)	\$	50,628,577			1	2

U.S. Virgin Islands Water and Power Authority Worksheet 5: Production Costing and Fuel Cost Summary

#### Line # St. Thomas

	Month	Fuel Consu	mption (Gal)	Fuel (	Cost (\$/Gal)	Fuel	Cost (\$)	Total Generation (MWh)	Total Renewable Generation (MWh)
		LPG	No. 2 Oil	LPG	No. 2 Oil	LPG	No. 2 Oil		
1	1								
2	2								
3	3	4,033,561	368,639	\$ 1.5	57 \$ 3.95	\$ 6,346,136	5 \$ 1,456,050	31,417	1,244
4	4								
5	5								
6	6								
-									
7	Total	4,033,561	368,639	\$ 1.5	57 \$ 3.95	\$ 6,346,136	5 \$ 1,456,050	31,417	1,244

#### St. Croix

	Month	Fuel Consun	nption (Gal)	Fuel Co	st (\$/Gal)	Fuel Cost (\$)		Total Generation (MWh)	Total Renewable Generation (MWh)
		LPG	No. 2 Oil	LPG	No. 2 Oil	LPG	No. 2 Oil		
8	1								
9	2								
10	3	3,033,100	0	\$ 1.57	\$-	\$ 4,772	.077 \$ -	22,478	713
11	4								
12	5								
13	6								
-									
14	Total	3,033,100	0	\$ 1.57	\$-	\$ 4,772	077 \$ -	22,478	713

# U.S. Virgin Islands Water and Power Authority Worksheet 6: Billing Forecast (Net-to-Gross Reconciliation)

Line #		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	6-Month Total
	<u>St. Thomas (MWh)</u>							
1	Total Sales Forecast	29,465	29,642	28,721	28,586	27,407	27,535	171,356
2	Renewables Generation	1,370	1,384	1,244	1,139	983	949	7,069
3	Thermal Sales Forecast (Line 1-2)	28,095	28,258	27,477	27,447	26,424	26,586	164,286
4	Line Loss Assumption As Stipulated	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%
5	Add: Thermal Line Loss As Stipulated	1,985	1,997	1,942	1,939	1,867	1,879	11,609
6	Sales Required from Thermal Generation (Line 3+5)	30,080	30,254	29,419	29,386	28,291	28,465	175,896
7	Allowable Plant Use Assumption As Stipulated	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
8	Add: Thermal Allowable Plant Use As Stiuplated	771	776	754	753	725	730	4,510
9	Total Thermal Generation Required (Line 6+8)	30,851	31,030	30,173	30,140	29,017	29,195	180,406
10	Total Generation (Line 2+9)	32,222	32,414	31,417	31,279	29,999	30,144	187,475
	<u>St. Croix (MWh)</u>							
11	Total Sales Forecast	22,486	21,594	20,533	20,795	18,685	18,698	122,791
12	Renewables Generation	797	760	713	689	591	610	4,160
13	Thermal Sales Forecast (Line 11-12)	21,689	20,834	19,820	20,106	18,094	18,088	118,630.91
14	Line Loss Assumption As Stipulated	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%
15	Add: Thermal Line Loss As Stipulated	1,533	1,472	1,401	1,421	1,279	1,278	8,383
16	Sales Required from Thermal Generation (Line 13+15)	23,221	22,306	21,221	21,526	19,373	19,366	127,014
17	Allowable Plant Use Assumption As Stipulated	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
18	Add: Thermal Allowable Plant Use As Stipulated	595	572	544	552	497	497	3,257
19	Total Thermal Generation Required (Line 16+18)	23,817	22,878	21,765	22,078	19,870	19,863	130,271
20	Total Generation (Line 12+19)	24,614	23,638	22,478	22,767	20,460	20,473	134,430

Worksheet 7: Renewable Power & Energy Forecast

St Croix

#### Cross Reference St. Thomas WS # Line # Line # Renewable Capacity (MW) Trailing Six Months Generation (MWh) Proposed Period Generation (MWh) Unit Bovoni Landfill 0 1 Port Authority (Cyril E King Airport) 2 490 3 Donoe Solar (BMR) 6,579 Cruz Bay, STJ Solar 4 0 PV Street Lights 5 0 **Total Renewable Energy** 7,069 6 6

2

	Unit	Renewable Capacity (MW)	Trailing Six Months Generation (MWh)	Proposed Period Generation (MWh)
7	Spanish Town Solar Farm			4,160
8	Adventure Solar			0
9	Henry Rohlsen Airport Solar			0
10	Longford Wind Farm			0
11	PV Street Lights			0
12	Total Renewable Energy			4,160

12

6

#### U.S. Virgin Islands Water and Power Authority

Worksheet 8: Thermal Power and Energy Forecast

Line #		Current As Approved Jul-Dec 2021	Proposed LEAC Jul-Dec 2022	Cross Re WS #	eference Line #
	St. Thomas (MWh)				
1	Total Energy Requirement for Billings (WS 6)	157,331		6	10
2	Less: Renewable Generation (WS 7)	0		7	6
3	Total Thermal Power & Energy Forecast (Line 1-2)	157,331		6	9
	St. Croix (MWh)				
4	Total Energy Requirement for Billings (WS 6)	113,957		6	20
5	Less: Renewable Generation (WS 7)	0		7	12
6	Total Thermal Power & Energy Forecast (Line 4-5)	113,957		6	19

#### Worksheet 9a: Production Costing Inputs

Line #		Total - All Units	GT 14-STT	GT 15-STT	GT 23-STT	GT 27-STT	GT 15-STT	GT 27-STT	Rice 1-STT	Rice 2-STT
1	Maximum Capacity (MW)									
2	Minimum Capacity (MW)									
3	Forced Outage Rate (%)									
4	Annual Required Maintenance Hours									
5	Planned Maintenance Start (Date & Time)									
6	Planned Maintenance End (Date & Time)									
7	Avg. Heat Rate 1 (BTU/kWh)									
8	Avg. Heat Rate 2 (BTU/kWh)									
9	Avg. Heat Rate 3 (BTU/kWh)									
10	Heat Points 1 (MW)									
11	Heat Points 2 (MW)									
12	Heat Points 3 (MW)									

		Rice 3-STT	Rice 4-STT	Rice 5-STT	Rice 6-STT	Rice 7-STT	Rice 8-STT	Rice 4-STT	Rice 5-STT	Rice 6-STT
13	Maximum Capacity (MW)									
14	Minimum Capacity (MW)									
15	Forced Outage Rate (%)									
16	Annual Required Maintenance Hours									
17	Planned Maintenance Start (Date & Time)									
18	Planned Maintenance End (Date & Time)									
19	Avg. Heat Rate 1 (BTU/kWh)									
20	Avg. Heat Rate 2 (BTU/kWh)									
21	Avg. Heat Rate 3 (BTU/kWh)									
22	Heat Points 1 (MW)									
23	Heat Points 2 (MW)									
24	Heat Points 3 (MW)									

#### Worksheet 9a: Production Costing Inputs

Line #		Rice 7-STT	GT 20-STX	GT 17-STX	GT 19-STX	GT 20-STX	GT 17-STX	AGG 1-STX	AGG 2-STX	AGG 3-STX
1	Maximum Capacity (MW)									
2	Minimum Capacity (MW)									
3	Forced Outage Rate (%)									
4	Annual Required Maintenance Hours									
5	Planned Maintenance Start (Date & Time)									
6	Planned Maintenance End (Date & Time)									
7	Avg. Heat Rate 1 (BTU/kWh)									
8	Avg. Heat Rate 2 (BTU/kWh)									
9	Avg. Heat Rate 3 (BTU/kWh)									
10	Heat Points 1 (MW)									
11	Heat Points 2 (MW)									
12	Heat Points 3 (MW)									

		AGG 4-STX	AGG 5-STX	AGG 6-STX	AGG 7-STX	AGG 8-STX	AGG 9-STX	AGG 10-STX	AGG 11-STX	Rice 1-STX
13	Maximum Capacity (MW)									
14	Minimum Capacity (MW)									
15	Forced Outage Rate (%)									
16	Annual Required Maintenance Hours									
17	Planned Maintenance Start (Date & Time)									
18	Planned Maintenance End (Date & Time)									
19	Avg. Heat Rate 1 (BTU/kWh)									
20	Avg. Heat Rate 2 (BTU/kWh)									
21	Avg. Heat Rate 3 (BTU/kWh)									
22	Heat Points 1 (MW)									
23	Heat Points 2 (MW)									
24	Heat Points 3 (MW)									

Worksheet 9a: Production Costing Inputs

Line #		AGG 12-STX	AGG 13-STX	AGG 14-STX	AGG 15-STX	AGG 16-STX	AGG 17-STX	AGG 18-STX	Rice 2-STX	Rice 3-STX
1	Maximum Capacity (MW)									
2	Minimum Capacity (MW)									
3	Forced Outage Rate (%)									
4	Annual Required Maintenance Hours									
5	Planned Maintenance Start (Date & Time)									
6	Planned Maintenance End (Date & Time)									
7	Avg. Heat Rate 1 (BTU/kWh)									
8	Avg. Heat Rate 2 (BTU/kWh)									
9	Avg. Heat Rate 3 (BTU/kWh)									
10	Heat Points 1 (MW)									
11	Heat Points 2 (MW)									
12	Heat Points 3 (MW)									

		Rice 4-STX	Rice 1-STX	Rice 2-STX	Rice 3-STX	Rice 4-STX
13	Maximum Capacity (MW)					
14	Minimum Capacity (MW)					
15	Forced Outage Rate (%)					
16	Annual Required Maintenance Hours					
17	Planned Maintenance Start (Date & Time)					
18	Planned Maintenance End (Date & Time)					
19	Avg. Heat Rate 1 (BTU/kWh)					
20	Avg. Heat Rate 2 (BTU/kWh)					
21	Avg. Heat Rate 3 (BTU/kWh)					
22	Heat Points 1 (MW)					
23	Heat Points 2 (MW)					
24	Heat Points 3 (MW)					

# U.S. Virgin Islands Water and Power Authority Worksheet 9b: Production Costing Outputs - Island Totals

Line #		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	6-Month Total	Cross Re WS #	eference Line #
	St. Thomas Total								VV 3 #	LINC #
1 2 3	LPG Generation (MWh) No. 2 Oil Generation (MWh) Total Thermal Generation (MWh) (WS 7 Line 9)			28,243 1,930 30,173					6	9
4 5 6	LPG Consumption (MMBTU) No. 2 Oil Consumption (MMBTU) Total Consumption (MMBTU)			369,071 51,978 421,049						
7 8	LPG Heat Content No. 2 Oil Heat Content			91,500 141,000						
9 10	LPG Gallons Required - Line 4/7 No. 2 Oil Gallons Required - Line 5/8			4,033,561 368,639						
11 12	LPG Avg. Price Delivered No. 2 Oil Avg. Price Delivered		\$	5 1.57 3.95					2 2	10 8
13 14 15	LPG Total Cost - Line 9*11 No. 2 Oil Total Cost - Line 10*12 Total Fuel Cost		\$	1,456,050					5 5	7 7
16	System Heat Rate (BTU/kWh) - Line 6/3			13,955						
17 18 19	<u>St. Croix Total</u> LPG Generation (MWh) No. 2 Oil Generation (MWh) Total Thermal Generation (MWh) (WS 7 Line 19)			21,765 - 21,765					6	19
20 21 22	LPG Consumption (MMBTU) No. 2 Oil Consumption (MMBTU) Total Consumption (MMBTU)			277,529 - 277,529						
23 24	LPG Heat Content No. 2 Oil Heat Content			91,500 141,000						
25 26	LPG Gallons Required - Line 20/23 No. 2 Oil Gallons Required - Line 21/24			3,033,100 0						
27 28	LPG Avg. Price Delivered No. 2 Oil Avg. Price Delivered		\$	1.57 3.95					2 2	10 8
29 30 31	LPG Total Cost - Line 25*27 No. 2 Oil Total Cost - Lien 26*28 Total Fuel Cost		\$						5	7
32	System Heat Rate (BTU/kWh) - Line 22/19			12,751						

U.S. Virgin Islands Water and Power Authority Worksheet 9c: Production Costing Outputs - St. Thomas by Unit

	Unit	Fuel Type	Resource Dispatch Mode	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	De
G	Generation (MWH)								
	GT 14	Diesel	OUT	0	0	0	0	0	
	GT 15	Diesel	OUT	0	0	0	0	0	
	GT 23	Diesel	ECON	0	400	0	80	0	
	GT 27	Diesel	ECON	2,294	4,022	1,930	2,187	3,307	3
									: 11
	GT 15 GT 27	LPG LPG	ECON OUT	14,895 0	12,239 0	15,031 0	14,621 0	12,425 0	1
								-	
	Rice 1	LPG	ECON	4,505	4,962	4,516	4,424	4,457	
	Rice 2	LPG	ECON	4,589	4,821	4,455	4,496	4,538	
	Rice 3	LPG	ECON	4,568	4,586	4,241	4,332	4,290	
	Rice 4	LPG	OUT	0	0	0	0	0	
	Rice 5	LPG	OUT	0	0	0	0	0	
	Rice 6	LPG	OUT	0	0	0	0	0	
	Rice 7	LPG	OUT	0	0	0	0	0	
	Rice 8	LPG	OUT	0	0	0	0	0	
	Rice 4	Diesel	OUT	0	0	0	0	0	
	Rice 5	Diesel	OUT	0	0	0	0	0	
	Rice 6	Diesel	OUT	0	0	0	0	0	
	Rice 7	Diesel	OUT	0	0	0	0	0	
	Rice 8	Diesel	OUT	0	0	0	0	0	
	Bov PV 1	Renewable	Fixed (Renewable)	0	0	0	0	0	
	PA PV 1	Renewable	Fixed (Renewable)	90	91	84	82	72	
	Don PV 1	Renewable	Fixed (Renewable)	1,281	1,293	1,160	1,057	911	
	CRZ PV 1	Renewable	Fixed (Renewable)	0	0	0	0	0	
	Total Generation - No. 2 / LPG			30,851	31,030	30,173	30,140	29,017	2
Т	Total Generation - All			32,222	32,414	31,417	31,279	29,999	3
C	Consumption (MMBTU)								
	07.14	21	0.17	2	0				
	GT 14	Diesel	OUT	0	0	0	0	0	
	GT 15	Diesel	OUT	0	0	0	0	0	
	GT 15 GT 23	Diesel Diesel	OUT ECON	0	0 11,419	0	0 2,296	0	
	GT 15 GT 23 GT 27	Diesel Diesel Diesel	OUT ECON ECON	0 0 56,296	0 11,419 71,176	0 0 51,978	0 2,296 55,372	0 0 63,842	
	GT 15 GT 23 GT 27 GT 15	Diesel Diesel Diesel LPG	OUT ECON ECON ECON	0 0 56,296 239,374	0 11,419 71,176 196,644	0 0 51,978 241,752	0 2,296 55,372 237,172	0 0 63,842 202,233	
	GT 15 GT 23 GT 27 GT 15 GT 27	Diesel Diesel Diesel LPG LPG	OUT ECON ECON ECON OUT	0 0 56,296 239,374 0	0 11,419 71,176 196,644 0	0 0 51,978 241,752 0	0 2,296 55,372 237,172 0	0 0 63,842 202,233 0	19
	GT 15 GT 23 GT 27 GT 15	Diesel Diesel Diesel LPG	OUT ECON ECON ECON	0 0 56,296 239,374	0 11,419 71,176 196,644	0 0 51,978 241,752	0 2,296 55,372 237,172 0 42,814	0 0 63,842 202,233	19
	GT 15 GT 23 GT 27 GT 15 GT 27	Diesel Diesel LPG LPG LPG LPG LPG	OUT ECON ECON ECON OUT	0 0 56,296 239,374 0 43,479 44,168	0 11,419 71,176 196,644 0	0 0 51,978 241,752 0	0 2,296 55,372 237,172 0 42,814 43,403	0 0 63,842 202,233 0	19 4
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1	Diesel Diesel LPG LPG LPG LPG LPG LPG	OUT ECON ECON OUT ECON ECON ECON ECON	0 0 56,296 239,374 0 43,479	0 11,419 71,176 196,644 0 47,226	0 0 51,978 241,752 0 43,359	0 2,296 55,372 237,172 0 42,814	0 0 63,842 202,233 0 42,870	19 4 4
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2	Diesel Diesel LPG LPG LPG LPG LPG	OUT ECON ECON ECON OUT ECON ECON	0 0 56,296 239,374 0 43,479 44,168	0 11,419 71,176 196,644 0 47,226 46,068	0 51,978 241,752 0 43,359 42,854	0 2,296 55,372 237,172 0 42,814 43,403	0 0 63,842 202,233 0 42,870 43,539	19. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 3	Diesel Diesel LPG LPG LPG LPG LPG LPG	OUT ECON ECON OUT ECON ECON ECON ECON	0 0 56,296 239,374 0 43,479 44,168 43,991	0 11,419 71,176 196,644 0 47,226 46,068 44,138	0 51,978 241,752 0 43,359 42,854 41,105	0 2,296 55,372 237,172 0 42,814 43,403 42,058	0 0 63,842 202,233 0 42,870 43,539 41,502	19. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 1 Rice 2 Rice 3 Rice 4	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           ECON           ECON           OUT           OUT	0 56,296 239,374 0 43,479 44,168 43,991 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0	0 51,978 241,752 0 43,359 42,854 41,105 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0	6) 19: 4. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 2 Rice 3 Rice 4 Rice 5	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           ECON           ECON           OUT           OUT           OUT           OUT	0 56,296 239,374 0 43,479 44,168 43,991 0 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0 0	0 51,978 241,752 0 43,359 42,854 41,105 0 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0 0	19. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 2 Rice 3 Rice 4 Rice 5 Rice 6	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           ECON           OUT	0 0 56,296 239,374 0 43,479 44,168 43,991 0 0 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0 0 0	0 0 51,978 241,752 0 43,359 42,854 41,105 0 0 0 0 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0 0 0 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0 0 0	192 44 44
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 3 Rice 4 Rice 4 Rice 5 Rice 6 Rice 7 Rice 8	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           ECON           OUT	0 0 56,296 239,374 0 43,479 44,168 43,991 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0 0 0 0 0 0 0	0 0 51,978 241,752 0 43,359 42,854 41,105 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0 0 0 0 0 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0 0 0 0 0 0 0 0 0 0	19. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 3 Rice 4 Rice 5 Rice 6 Rice 7 Rice 8 Rice 4	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           OUT	0 0 56,296 239,374 0 43,479 44,168 43,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 51,978 241,752 0 43,359 42,854 41,105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 3 Rice 4 Rice 5 Rice 6 Rice 7 Rice 8 Rice 4 Rice 7 Rice 8 Rice 4 Rice 2	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           ECON           ECON           OUT	0 0 56,296 239,374 0 43,479 44,168 43,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 51,978 241,752 0 43,359 42,854 41,105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 3 Rice 4 Rice 5 Rice 6 Rice 7 Rice 8 Rice 7 Rice 8 Rice 4 Rice 5 Rice 4 Rice 5 Rice 4 Rice 5 Rice 5 Rice 5 Rice 5 Rice 5 Rice 5 Rice 5	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           ECON           ECON           OUT	0 0 56,296 239,374 0 43,479 44,168 43,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 51,978 241,752 0 43,359 42,854 41,105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 2 Rice 3 Rice 4 Rice 5 Rice 6 Rice 7 Rice 8 Rice 4 Rice 7 Rice 8 Rice 4 Rice 5 Rice 6 Rice 5 Rice 6 Rice 7	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           ECON           OUT           OUT	0 0 56,296 239,374 0 43,479 44,168 43,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 51,978 241,752 0 43,359 42,854 41,105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19. 4. 4.
	GT 15 GT 23 GT 27 GT 15 GT 27 Rice 1 Rice 2 Rice 3 Rice 4 Rice 5 Rice 6 Rice 7 Rice 8 Rice 7 Rice 8 Rice 4 Rice 5 Rice 4 Rice 5 Rice 4 Rice 5 Rice 5 Rice 5 Rice 5 Rice 5 Rice 5 Rice 5	Diesel Diesel LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	OUT           ECON           ECON           OUT           ECON           ECON           ECON           ECON           ECON           OUT	0 0 56,296 239,374 0 43,479 44,168 43,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11,419 71,176 196,644 0 47,226 46,068 44,138 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 51,978 241,752 0 43,359 42,854 41,105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2,296 55,372 237,172 0 42,814 43,403 42,058 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 63,842 202,233 0 42,870 43,539 41,502 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	192 44 44

#### U.S. Virgin Islands Water and Power Authority

Worksheet 9c: Production Costing Outputs - St. Thomas by Unit

Line #	Unit	Fuel Type	Resource Dispatch Mode	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
	Heat Rate (BTU/KWH)								
47	GT 14	Diesel	OUT						
48	GT 15	Diesel	OUT						
49	GT 23	Diesel	ECON		28,549		28,699		
50	GT 27	Diesel	ECON	24,540	17,695	26,938	25,322	19,302	18,376
51	GT 15	LPG	ECON	16,071	16,067	16,084	16,221	16,277	16,416
52	GT 27	LPG	OUT						
53	Rice 1	LPG	ECON	9,651	9,517	9,601	9,677	9,619	9,616
54	Rice 2	LPG	ECON	9,624	9,556	9,620	9,654	9,594	9,612
55	Rice 3	LPG	ECON	9,631	9,625	9,691	9,709	9,674	9,664
56	Rice 4	LPG	OUT						
57	Rice 5	LPG	OUT						
58	Rice 6	LPG	OUT						
59	Rice 7	LPG	OUT						
60	Rice 8	LPG	OUT						
61	Rice 4	Diesel	OUT						
62	Rice 5	Diesel	OUT						
63	Rice 6	Diesel	OUT						
64	Rice 7	Diesel	OUT						
65	Rice 8	Diesel	OUT						
66	STT Total Heat Rate - (Lines 45+46)/24			13,851	13,428	13,955	14,038	13,578	13,481

# U.S. Virgin Islands Water and Power Authority Worksheet 9d: Production Costing Outputs - St. Croix by Unit

# Unit	Fuel Type	Resource Dispatch Mode	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	D
Generation (MWH)				-	·			
Generation (inwrit)								
GT 20	Diesel	OUT	0	0	0	0	0	
GT 17	Diesel	OUT	0	0	0	0	0	
GT 19	Diesel	ECON	0	0	0	0	0	
GT 20	LPG	ECON	0	0	0	0	0	
GT 17	LPG	ECON	10,322	9,483	8,706	8,539	6,598	
AGG 1	LPG	ECON	784	797	775	792	789	
AGG 2	LPG	ECON	791	777	774	805	778	
AGG 3	LPG	ECON	805	784	770	801	783	
AGG 4	LPG	ECON	801	785	760	796	773	
AGG 5	LPG	ECON	782	774	751	793	779	
AGG 6	LPG	ECON	797	783	765	791	779	
AGG 7	LPG	ECON	808	795	774	802	784	
AGG 8	LPG	ECON	799	789	772	801	787	
AGG 9	LPG	ECON	806	777	780	799	778	
AGG 10	LPG	ECON	782	801	766	792	782	
AGG 11	LPG	ECON	758	791	767	796	784	
AGG 12	LPG	ECON	799	786	756	790	781	
AGG 13	LPG	ECON	795	798	781	796	777	
AGG 14	LPG	ECON	806	798	766	797	784	
AGG 15	LPG	ECON	787	782	766	801	778	
AGG 16	LPG	ECON	803	786	758	790	782	
AGG 17	LPG	ECON	791	791	776	796	773	
AGG 18	LPG	OUT	0	0	0	0	0	
Rice 1	LPG	OUT	0	0	0	0	0	
Rice 2	LPG	OUT	0	0	0	0	0	
Rice 3	LPG	OUT	0	0	0	0	0	
Rice 4	LPG	OUT	0	0	0	0	0	
Rice 1	Diesel	OUT	0	0	0	0	0	
Rice 2	Diesel	OUT	0	0	0	0	0	
Rice 3	Diesel	OUT	0	0	0	0	0	
Rice 4	Diesel	OUT	0	0	0	0	0	
PV 2	Renewable	Fixed (Renewable)	797	760	713	689	591	
Advent PV 1	Renewable	Fixed (Renewable)	0	0	0	0	0	
Hera PV 1	Renewable	Fixed (Renewable)	0	0	0	0	0	
Wd 1	Renewable	Fixed (Renewable)	0	0	0	0	0	
Total Generation - No. 2 / LPG			23,817	22,878	21,765	22,078	19,870	
Total Generation - All			24,614	23,638	22,478	22,767	20,460	
Consumption (MMBTU)								
GT 20	Diesel	OUT						
GT 17	Diesel	OUT	0	0	0	0	0	
GT 19	Diesel	ECON	0	0	0	0	0	
GT 20	LPG	ECON	0	0	0	0	0	
GT 17	LPG	ECON						
AGG 1			170,269	160,098	149,162	148,524	123,441	
	LPG	ECON	170,269 7,704	7,831	7,617	7,790	7,754	
AGG 2	LPG LPG	ECON ECON	170,269 7,704 7,773	7,831 7,636	7,617 7,609	7,790 7,913	7,754 7,649	
AGG 3	LPG LPG LPG	ECON ECON ECON	170,269 7,704 7,773 7,917	7,831 7,636 7,708	7,617 7,609 7,570	7,790 7,913 7,872	7,754 7,649 7,692	
AGG 3 AGG 4	LPG LPG LPG LPG	ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875	7,831 7,636 7,708 7,718	7,617 7,609 7,570 7,473	7,790 7,913 7,872 7,822	7,754 7,649 7,692 7,597	
AGG 3 AGG 4 AGG 5	LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690	7,831 7,636 7,708 7,718 7,610	7,617 7,609 7,570 7,473 7,380	7,790 7,913 7,872 7,822 7,796	7,754 7,649 7,692 7,597 7,660	
AGG 3 AGG 4 AGG 5 AGG 6	LPG LPG LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838	7,831 7,636 7,708 7,718 7,610 7,695	7,617 7,609 7,570 7,473 7,380 7,523	7,790 7,913 7,872 7,822 7,796 7,777	7,754 7,649 7,692 7,597 7,660 7,660	
AGG 3 AGG 4 AGG 5 AGG 6 AGG 7	LPG LPG LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944	7,831 7,636 7,708 7,718 7,610 7,695 7,819	7,617 7,609 7,570 7,473 7,380 7,523 7,611	7,790 7,913 7,872 7,822 7,822 7,796 7,777 7,884	7,754 7,649 7,692 7,597 7,660 7,660 7,660 7,703	
AGG 3 AGG 4 AGG 5 AGG 6 AGG 7 AGG 8	LPG LPG LPG LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,817 7,690 7,838 7,944 7,851	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588	7,790 7,913 7,872 7,822 7,796 7,777 7,884 7,873	7,754 7,649 7,692 7,597 7,660 7,660 7,660 7,703 7,703	
AGG 3 AGG 4 AGG 5 AGG 6 AGG 7 AGG 8 AGG 9	LPG LPG LPG LPG LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923	7,831 7,636 7,708 7,718 7,610 7,645 7,819 7,752 7,642	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664	7,790 7,913 7,872 7,822 7,796 7,777 7,784 7,873 7,853	7,754 7,649 7,692 7,597 7,660 7,660 7,703 7,738 7,738 7,651	
AGG 3 AGG 4 AGG 5 AGG 6 AGG 7 AGG 8 AGG 9 AGG 10	LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530	7,790 7,913 7,812 7,822 7,796 7,777 7,884 7,873 7,853 7,853 7,790	7,754 7,649 7,692 7,597 7,660 7,660 7,703 7,738 7,651 7,685	
AGG 3 AGG 4 AGG 5 AGG 6 AGG 7 AGG 8 AGG 9 AGG 10 AGG 11	146 146 146 146 146 146 146 146 146 146	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,851 7,923 7,691 7,691 7,456	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,642 7,878 7,780	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,530	7,790 7,913 7,822 7,822 7,766 7,777 7,884 7,873 7,883 7,790 7,827	7,754 7,649 7,692 7,597 7,660 7,763 7,703 7,738 7,651 7,651 7,651 7,651 7,701	
AGG 3 AGG 4 AGG 5 AGG 6 AGG 7 AGG 7 AGG 8 AGG 9 AGG 10 AGG 11 AGG 12	LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,780 7,723	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,588 7,588 7,588 7,580 7,530 7,542 7,435	7,790 7,913 7,872 7,822 7,796 7,777 7,884 7,873 7,873 7,790 7,883 7,790 7,827 7,762	7,754 7,649 7,692 7,597 7,660 7,763 7,738 7,681 7,685 7,701 7,685 7,701 7,678	
AGG 3 AGG 4 AGG 5 AGG 6 AGG 7 AGG 8 AGG 9 AGG 10 AGG 11 AGG 12 AGG 13	PG PG PG PG PG PG PG PG PG PG PG PG PG P	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,691 7,456 7,852 7,817	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,780 7,723 7,783 7,780 7,723	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,680	7,790 7,913 7,872 7,822 7,796 7,777 7,884 7,783 7,883 7,780 7,883 7,790 7,827 7,762 7,828	7,754 7,649 7,692 7,597 7,660 7,703 7,703 7,703 7,703 7,651 7,685 7,701 7,678 7,671 7,678	
AGG 3         AGG 4           AGG 5         AGG 6           AGG 6         AGG 7           AGG 8         AGG 9           AGG 10         AGG 11           AGG 12         AGG 13           AGG 14         AGG 14	1PG 1PG 1PG 1PG 1PG 1PG 1PG 1PG 1PG 1PG	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,851 7,923 7,691 7,456 7,852 7,817 7,817 7,920	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,723 7,780 7,723 7,844	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,680 7,531	7,790 7,913 7,872 7,872 7,872 7,796 7,777 7,884 7,873 7,853 7,790 7,853 7,790 7,827 7,762 7,828 7,828	7,754 7,649 7,692 7,597 7,660 7,703 7,738 7,651 7,651 7,655 7,701 7,678 7,678 7,641 7,641 7,701	
AGG 3           AGG 4           AGG 5           AGG 6           AGG 7           AGG 8           AGG 10           AGG 11           AGG 12           AGG 13           AGG 14           AGG 15	LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,852 7,817 7,852 7,817 7,920 7,734	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,752 7,878 7,780 7,723 7,846 7,844 7,844 7,869	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,684 7,530 7,542 7,542 7,542 7,542 7,542 7,545 7,680 7,531 7,528	7,790 7,913 7,872 7,822 7,796 7,777 7,884 7,873 7,873 7,780 7,883 7,790 7,827 7,762 7,828 7,834 7,834 7,834 7,834	7,754 7,649 7,692 7,597 7,660 7,660 7,703 7,738 7,651 7,685 7,701 7,678 7,641 7,641 7,641	
AGG 3 AGG 4 AGG 5 AGG 6 AGG 7 AGG 8 AGG 9 AGG 9 AGG 10 AGG 11 AGG 11 AGG 12 AGG 13 AGG 13 AGG 14 AGG 15 AGG 16	291 294 296 296 296 296 296 296 296 296 296 296	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,691 7,456 7,852 7,817 7,920 7,734 7,893	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,848 7,780 7,723 7,846 7,844 7,849 7,849 7,849 7,731	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,680 7,531 7,531 7,531 7,538 7,531 7,538	7,790 7,913 7,812 7,822 7,796 7,777 7,884 7,873 7,783 7,783 7,785 7,790 7,827 7,762 7,828 7,834 7,834 7,874 7,874 7,874	7,754 7,649 7,692 7,597 7,660 7,703 7,703 7,651 7,685 7,701 7,685 7,701 7,678 7,641 7,701 7,644 7,643	
AGG 3         AGG 4         AGG 5         AGG 6         AGG 7         AGG 8         AGG 9         AGG 10         AGG 12         AGG 13         AGG 15         AGG 16         AGG 17	1PG 1PG 1PG 1PG 1PG 1PG 1PG 1PG 1PG 1PG	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,817 7,852 7,817 7,920 7,734 7,893 7,771	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,723 7,844 7,780 7,723 7,844 7,884 7,884 7,884 7,689 7,731 7,871 7,779	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,660 7,531 7,528 7,531 7,528 7,531	7,790 7,913 7,812 7,822 7,796 7,777 7,884 7,873 7,853 7,790 7,827 7,762 7,828 7,828 7,828 7,834 7,874 7,874 7,874 7,874 7,874 7,875	7,754 7,649 7,692 7,597 7,660 7,703 7,738 7,651 7,655 7,651 7,655 7,651 7,678 7,671 7,678 7,641 7,678 7,641 7,644 7,683 7,683 7,683	
AGG 3         AGG 4         AGG 5         AGG 6         AGG 7         AGG 8         AGG 10         AGG 11         AGG 12         AGG 13         AGG 15         AGG 16         AGG 17         AGG 18	291 294 296 294 296 296 296 296 296 296 296 296 296 296	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,817 7,852 7,817 7,920 7,734 7,893 7,771 0	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,723 7,780 7,723 7,846 7,844 7,844 7,849 7,731 7,779 0	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,680 7,531 7,531 7,531 7,538 7,531 7,538	7,790 7,913 7,812 7,822 7,796 7,777 7,884 7,873 7,783 7,783 7,785 7,790 7,827 7,762 7,828 7,834 7,834 7,874 7,874 7,874	7,754 7,649 7,692 7,597 7,660 7,703 7,703 7,651 7,685 7,701 7,685 7,701 7,678 7,641 7,701 7,644 7,644	
AGG 3         AGG 4         AGG 5         AGG 6         AGG 7         AGG 8         AGG 10         AGG 11         AGG 12         AGG 13         AGG 15         AGG 16         AGG 17         AGG 18         Rice 1	291 294 295 294 296 296 296 296 296 296 296 296 296 296	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,817 7,852 7,817 7,920 7,734 7,893 7,771	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,723 7,844 7,780 7,723 7,844 7,884 7,884 7,884 7,689 7,731 7,871 7,779	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,660 7,531 7,528 7,531 7,528 7,531	7,790 7,913 7,812 7,822 7,796 7,777 7,884 7,873 7,853 7,790 7,827 7,762 7,828 7,828 7,828 7,834 7,874 7,874 7,874 7,874 7,874 7,875	7,754 7,649 7,692 7,597 7,660 7,703 7,738 7,651 7,655 7,651 7,655 7,651 7,678 7,671 7,678 7,641 7,678 7,641 7,644 7,683 7,683 7,683	
AGG 3           AGG 4           AGG 5           AGG 6           AGG 7           AGG 8           AGG 10           AGG 11           AGG 12           AGG 13           AGG 15           AGG 17           AGG 18           Rice 1           Rice 2	242 243 244 244 245 244 245 244 245 244 245 245	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,817 7,852 7,817 7,920 7,734 7,920 7,734 7,893 7,771 0 0 0	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,752 7,642 7,878 7,780 7,723 7,844 7,780 7,723 7,846 7,784 7,889 7,731 7,779 0 0 0	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,455 7,680 7,542 7,435 7,680 7,531 7,528 7,454 7,454 7,451 0 0 0	7,790 7,913 7,872 7,872 7,872 7,782 7,785 7,796 7,884 7,873 7,780 7,853 7,790 7,827 7,762 7,828 7,762 7,828 7,762 7,828 7,834 7,874 7,769 7,824 7,874 7,784 7,874 7,785 0 0 0	7,754 7,649 7,692 7,597 7,660 7,763 7,738 7,651 7,685 7,701 7,678 7,641 7,678 7,641 7,644 7,643 7,644 7,683 7,683 7,683 0	
ACG 3           AGG 4           AGG 5           ACG 6           AGG 7           AGG 8           AGG 9           AGG 10           AGG 12           AGG 13           AGG 15           AGG 16           AGG 17           AGG 18           Rice 1	94 146 146 146 146 146 146 146 146 146 14	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,691 7,456 7,852 7,817 7,920 7,734 7,893 7,771 0 0	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,842 7,848 7,780 7,723 7,846 7,744 7,849 7,731 7,731 7,731 7,779 0 0	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,680 7,531 7,532 7,435 7,680 7,531 7,538 7,531 7,538 7,531 7,538 7,454 7,631 0 0	7,790 7,913 7,812 7,822 7,796 7,777 7,884 7,873 7,873 7,853 7,790 7,827 7,762 7,828 7,834 7,832 7,832 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,900 7,822 7,900 7,900 7,822 7,900 7,822 7,900 7,822 7,900 7,822 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,900 7,823 7,820 7,823 7,820 7,823 7,820 7,800	7,754 7,649 7,692 7,597 7,660 7,660 7,703 7,738 7,651 7,685 7,701 7,678 7,685 7,701 7,678 7,641 7,641 7,701 7,644 7,643 7,602 0 0	
AGG 3           AGG 4           AGG 5           AGG 6           AGG 7           AGG 8           AGG 10           AGG 10           AGG 12           AGG 13           AGG 14           AGG 15           AGG 16           AGG 17           AGG 18           Rice 1           Rice 2	242 243 244 244 245 244 245 244 245 244 245 245	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,817 7,852 7,817 7,920 7,734 7,920 7,734 7,893 7,771 0 0 0	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,752 7,642 7,878 7,780 7,723 7,844 7,780 7,723 7,846 7,784 7,889 7,731 7,779 0 0 0	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,455 7,680 7,542 7,435 7,680 7,531 7,528 7,454 7,454 7,451 0 0 0	7,790 7,913 7,872 7,872 7,872 7,782 7,785 7,796 7,884 7,873 7,780 7,853 7,790 7,827 7,762 7,828 7,762 7,828 7,762 7,828 7,834 7,874 7,769 7,824 7,874 7,784 7,874 7,785 0 0 0	7,754 7,649 7,692 7,597 7,660 7,703 7,738 7,651 7,651 7,655 7,761 7,678 7,678 7,671 7,678 7,641 7,678 7,641 7,643 7,644 7,683 7,644 7,683 7,644 7,683 7,682 0 0 0	
AGG 3         AGG 4           AGG 5         AGG 5           AGG 6         AGG 7           AGG 7         AGG 8           AGG 10         AGG 11           AGG 12         AGG 12           AGG 13         AGG 14           AGG 15         AGG 15           AGG 16         AGG 17           AGG 18         Rice 1           Rice 3         AGG 3	94 146 146 146 146 146 146 146 146 146 14	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,891 7,456 7,852 7,817 7,920 7,734 7,893 7,771 0 0 0	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,848 7,780 7,723 7,844 7,888 7,780 7,723 7,844 7,844 7,844 7,849 7,731 7,779 0 0 0 0 0 0	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,542 7,542 7,542 7,542 7,545 7,542 7,545 7,542 7,545 7,528 7,454 7,528 7,454 7,651 0 0 0	7,790 7,913 7,872 7,822 7,796 7,777 7,884 7,873 7,853 7,790 7,827 7,828 7,828 7,828 7,824 7,828 7,834 7,834 7,834 7,834 7,834 7,834 7,834 7,834 7,834 7,834 7,859 0 0 0 0	7,754 7,649 7,692 7,597 7,660 7,703 7,703 7,703 7,651 7,685 7,701 7,685 7,701 7,678 7,641 7,701 7,644 7,701 7,644 7,683 7,602 0 0 0 0 0	
AGG 3         AGG 4           AGG 5         AGG 5           AGG 6         AGG 7           AGG 8         AGG 9           AGG 10         AGG 11           AGG 12         AGG 13           AGG 13         AGG 14           AGG 16         AGG 17           AGG 18         Rice 1           Rice 2         Rice 3           Rice 4         AGG 14	PG PG PG PG PG PG PG PG PG PG PG PG PG P	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,891 7,456 7,852 7,817 7,920 7,734 7,920 7,734 7,893 7,771 0 0 0 0 0	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,762 7,764 7,780 7,723 7,846 7,723 7,846 7,744 7,689 7,731 7,751 7,779 0 0 0 0 0 0 0	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,680 7,531 7,531 7,528 7,454 7,454 7,631 0 0 0 0 0	7,790 7,913 7,812 7,822 7,796 7,777 7,884 7,873 7,853 7,790 7,853 7,790 7,827 7,762 7,828 7,834 7,874 7,769 7,825 0 0 0 0 0 0	7,754 7,649 7,692 7,597 7,660 7,703 7,738 7,651 7,685 7,685 7,685 7,685 7,685 7,678 7,678 7,678 7,678 7,678 7,674 7,673 7,663 7,602 0 0 0 0 0 0 0 0 0	
AGG 3         AGG 4           AGG 5         AGG 5           AGG 6         AGG 7           AGG 8         AGG 9           AGG 10         AGG 12           AGG 12         AGG 13           AGG 15         AGG 16           AGG 16         AGG 17           AGG 17         AGG 18           Rice 1         Rice 3           Rice 4         Rice 1           Rice 2         2	LPG           LPG	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,838 7,944 7,851 7,923 7,691 7,456 7,852 7,691 7,456 7,852 7,817 7,920 7,734 7,893 7,771 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,780 7,752 7,642 7,878 7,780 7,752 7,844 7,878 7,780 7,723 7,844 7,689 7,731 7,739 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,453 7,680 7,542 7,435 7,680 7,531 7,528 7,454 7,454 7,454 7,454 7,454 7,451 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,790 7,913 7,812 7,822 7,796 7,777 7,884 7,873 7,783 7,783 7,783 7,785 7,782 7,828 7,828 7,828 7,824 7,824 7,824 7,824 7,824 7,824 7,824 7,824 7,825 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,754 7,649 7,692 7,597 7,660 7,703 7,738 7,651 7,685 7,701 7,685 7,701 7,678 7,685 7,701 7,678 7,641 7,701 7,644 7,701 7,644 7,703 7,662 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
AGG 3           AGG 4           AGG 5           AGG 6           AGG 7           AGG 8           AGG 10           AGG 11           AGG 12           AGG 13           AGG 14           AGG 15           AGG 18           Rice 1           Rice 3           Rice 4	LPG LPG LPG LPG LPG LPG LPG LPG LPG LPG	ECON ECON ECON ECON ECON ECON ECON ECON	170,269 7,704 7,773 7,917 7,875 7,690 7,883 7,944 7,851 7,923 7,691 7,456 7,852 7,817 7,920 7,754 7,852 7,817 7,920 7,734 7,893 7,771 0 0 0 0 0 0	7,831 7,636 7,708 7,718 7,610 7,695 7,819 7,752 7,642 7,878 7,760 7,723 7,878 7,780 7,723 7,878 7,780 7,723 7,878 7,780 7,723 7,846 7,784 7,784 7,781 7,731 7,779 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,617 7,609 7,570 7,473 7,380 7,523 7,611 7,588 7,664 7,530 7,542 7,435 7,680 7,531 7,542 7,435 7,680 7,531 7,528 7,454 7,631 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,790 7,913 7,872 7,872 7,872 7,873 7,796 7,777 7,884 7,873 7,780 7,853 7,790 7,827 7,762 7,828 7,762 7,828 7,762 7,828 7,834 7,874 7,769 7,825 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,754 7,649 7,692 7,597 7,660 7,703 7,738 7,651 7,651 7,655 7,701 7,678 7,641 7,678 7,641 7,678 7,641 7,643 7,644 7,683 7,662 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

# U.S. Virgin Islands Water and Power Authority Worksheet 9d: Production Costing Outputs - St. Croix by Unit

# Unit	Fuel Type	Resource Dispatch Mode	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-2
Heat Rate (BTU/KWH)								
GT 20	Diesel	OUT						
2 GT 17	Diesel	OUT						
3 GT 19	Diesel	ECON						
4 GT 20	LPG	ECON						
5 GT 17	LPG	ECON	16,495	16,882	17,133	17,394	18,708	19,4
5 AGG 1	LPG	ECON	9,831	9,830	9,829	9,830	9,827	9,8
7 AGG 2	LPG	ECON	9,830	9,832	9,829	9,829	9,829	9,8
AGG 3	LPG	ECON	9,829	9,831	9,830	9,829	9,828	9,8
AGG 4	LPG	ECON	9,829	9,831	9,831	9,830	9,829	9,8
D AGG 5	LPG	ECON	9,831	9,833	9,832	9,830	9,829	9,8
AGG 6	LPG	ECON	9,830	9,831	9,830	9,830	9,829	9,8
2 AGG 7	LPG	ECON	9,828	9,830	9,829	9,829	9,828	9,8
AGG 8	LPG	ECON	9,829	9,831	9,829	9,829	9,828	9,8
4 AGG 9	LPG	ECON	9,828	9,832	9,829	9,829	9,829	9,8
5 AGG 10	LPG	ECON	9,831	9,829	9,830	9,830	9,828	9,8
5 AGG 11	LPG	ECON	9,835	9,830	9,830	9,830	9,828	9,8
7 AGG 12	LPG	ECON	9,829	9,831	9,832	9,831	9,828	9,8
3 AGG 13	LPG	ECON	9,830	9,829	9,828	9,830	9,829	9,8
9 AGG 14	LPG	ECON	9,829	9,829	9,830	9,830	9,828	9,8
AGG 15	LPG	ECON	9,831	9,831	9,830	9,829	9,829	9,8
AGG 16	LPG	ECON	9,829	9,831	9,831	9,830	9,828	9,8
2 AGG 17	LPG	ECON	9,830	9,830	9,829	9,830	9,829	9,8
3 AGG 18	LPG	OUT						
4 Rice 1	LPG	OUT						
5 Rice 2	LPG	OUT						
6 Rice 3	LPG	OUT						
7 Rice 4	LPG	OUT						
3 Rice 1	Diesel	OUT						
Rice 2	Diesel	OUT						
0 Rice 3	Diesel	OUT						
1 Rice 4	Diesel	OUT						
2 STX Total Heat Rate - (Lir	nes 69+70)/36		12,719	12,754	12,751	12,755	12,777	12,8

# Worksheet 10: Water System Reimbursable Costs

			nt As Approved	Proposed LEAC	Cross Re	
Line #		Ju	I-Dec 2021	Jul-Dec 2022	WS #	Line #
	Ultra Pure Water Charge - Island Totals					
1	St. Thomas	\$	645,080			
2	St. Croix		238,788			
3	Total	\$	883,868		1	10
4	Plant Repair RO Contract (STT Only)	\$	122,787		1	6
	<u>Ultra Pure Water Charge - kgal</u>					
5	STT		64,400			
6	STX		25,760			
7	Total kgal		90,160			
	<u>Ultra Pure Water Charge - Cost per kgal</u>					
8	STT	\$	10.02			
9	STX	Ŧ	9.27			
10	Weighted Average Cost per kgal	\$	9.80			
	RO Energy Consumed (kWh)					
11	STT		4,483,667			
12	STX		6,369,179			
13	Total		10,852,846			

# Worksheet 11: Other Eligible LEAC Costs

		Curre	nt As Approved	Proposed LEAC	Cross Re	ference
Line #		JL	ul-Dec 2021	Jul-Dec 2022	WS #	Line #
	Other Eligible LEAC Costs					
1	PSC Regulatory Costs	\$	84,000		1	3
2	Renewable Energy Costs		686,351		1	4
3	Ultra Pure Water Charge		883,868		1	5
4	Plant Repair RO Contract		122,787		1	6
5	Total Other Charges	\$	1,777,006		1	7

# U.S. Virgin Islands Water and Power Authority Worksheet 12: Fuel Futures Pricing Forecast

onton	eet 12: Fuel Futures Pricing Forecast							Cross Re	eference
Line #		Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	WS #	Line #
	LPG								
	7-Day Sample (Unhedged)								
1	5/5/2022	1.28	1.28	1.28	1.28	1.28	1.28		
2	5/20/2022	1.23	1.23	1.23	1.23	1.23	1.23		
3	5/24/2022	1.21	1.21	1.22	1.22	1.22	1.22		
4	Insert date	-	-	-	-	-	-		
5	Insert date	-	-	-	-	-	-		
6	Insert date	-	-	-	-	-	-		
7	Insert date	-	-	-	-	-	-		
8	Avg. Spot Price (per Gal)	\$ 1.24 \$	1.24 \$	1.24 \$	1.24 \$	1.24 \$	1.24		
9	Delivery	0.33	0.33	0.33	0.33	0.33	0.33		
10	Total Price per Gallon (Line 8+9)	\$ 1.57 \$	1.57 \$	1.57 \$	1.57 \$	1.57 \$	1.57	2	10
	No. 2 Oil								
	7-Day Sample (Unhedged)								
11	5/5/2022	3.69	3.59	3.51	3.41	3.31	3.23		
12	5/20/2022	3.54	3.48	3.43	3.34	3.25	3.18		
13	5/24/2022	3.52	3.48	3.43	3.36	3.28	3.21		
14	Insert date	-	-	-	-	-	-		
15	Insert date	-	-	-	-	-	-		
16	Insert date	-	-	-	-	-	-		
17	Insert date	-	-	-	-	-	-		
18	Avg. Spot Price (per Gal)	\$ 3.58 \$	3.52 \$	3.45 \$	3.37 \$	3.28 \$	3.21		
19	Delivery	0.495	0.495	0.495	0.495	0.495	0.495		
20	Total Price per Gallon (Line 18+19)	\$ 4.08 \$	4.01 \$	3.95 \$	3.87 \$	3.77 \$	3.70	2	8