



Second Session 12<sup>th</sup> Parliament

# FINANCIAL SCRUTINY UNIT

Office of the Parliament of Trinidad and Tobago

**Head 39: Ministry of Public Utilities**

Allocation: \$2,668,981,600.00

A summary of the Ministry's Expenditure, Divisions and Projects.

## **Publication**

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## Table of Contents

About this Guide.....	4
Head 39: Ministry of Public Utilities.....	5
Ministerial Overview.....	5
Ministry's Services.....	6
Wholly Owned Enterprises.....	9
Majority Owned Enterprises.....	10
Key Statements from 2020 Standing Finance Committee Debate.....	12
The Ministry's total allocation as a percentage of the National Budget for the period 2016 to 2022.....	22
Where the Ministry spends its money.....	23
<i>2021-2022 Estimates of Expenditure</i> .....	23
Summary of Recurrent Expenditure for the period 2016-2022.....	25
Analysis of Recurrent Expenditure.....	26
Staff and Pay.....	32
Analysis of the Water and Sewerage Authority.....	33
Water and Sewerage Authority Expenditure vs Income Allocation 2017-2022.....	34
Staff and Pay.....	35
Increases/Decreases for noteworthy sub-items under the Water and Sewerage Authority.....	36
Sub-item 12- Material and Supplies.....	37
Sub-item 68 - Water Trucking.....	38
Summary of Development Programme Expenditure for the period 2016- 2022.....	39
Public Sector Investment Programme (PSIP) 2021/2022 Projections.....	41

Noteworthy Development Programme Estimates in 2019-2022 .....	54
Status of New Projects from the Financial Year 2016-2017 .....	55
Status of New Projects from the Financial Year 2017- 2018 .....	57
Status of New Projects from the Financial Year 2018-2019 .....	58
Status of New Projects from the Financial Year 2019-2020 .....	60
Status of New Projects from the Financial Year 2020-2021 .....	62
New Projects from the Financial Year 2021-2022 .....	62
Committee Inquiries Related to the Ministry Of Public Utilities.....	63
General Useful Information:.....	65

## **About this Guide**

This guide provides a summary of expenditure for the Ministry of Public Utilities (MPU) for the period 2016-2022. It provides Members of Parliament and stakeholders with an overview of the Ministry's responsibilities. The primary purpose of this guide is to consolidate the information contained within the various Budget Documents pertaining to the Ministry of Public Utilities, and provide readers with an analysis of same. This guide is based primarily on:

- the Draft Estimates of Recurrent Expenditure 2022;
- the Draft Estimates of Development Programme 2022;
- the Draft Estimates of the Revenue and Expenditure of the Statutory Boards and Similar Bodies and of the Tobago House of Assembly 2022;
- the Public Sector Investment Programme 2022; and
- the Report of the Auditor General on the Public Accounts of the Republic of Trinidad and Tobago for the Financial Year 2020.

# Head 39: Ministry of Public Utilities

## Ministerial Overview

### Vision<sup>1</sup>

To become an organization dedicated to excellence in the delivery of public utilities for the sustainability of our country and an improved quality of life of its citizenry

### Mission<sup>2</sup>

To facilitate the effective delivery of efficient, affordable and quality public utilities services through a committed, resourceful team of professionals in close collaboration with all stakeholders.

The Ministry of Public Utilities is assigned the following areas of responsibility as published in the Trinidad and Tobago Gazette:<sup>3</sup>

- Electrical Inspectorate
- Electricity
- Postal Services
- Public Utilities
- Telephones
- Meteorological Service
- Recycling
- Water
- Water Resources Management
- Waste Water Management
- Waste Management

**Minister:** The Honourable Marvin Gonzales, MP

**Permanent Secretary Ag. (Accounting Officer):** Ms. Nicolette Duke

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<sup>1</sup> Ministry of Public Utilities website, accessed on August 24, 2021: <http://www.mpu.gov.tt/home/node/8>

<sup>2</sup> Ministry of Public Utilities website, accessed on August 24, 2021: <http://www.mpu.gov.tt/home/node/9>

<sup>3</sup> Trinidad and Tobago Gazette 158: accessed on August 24, 2021: file: <http://news.gov.tt/sites/default/files/E-Gazette/Gazette%202020/Gazettes/Gazette%20No.%20158%20of%202020.pdf>

## Ministry's Services

Services	Description
<u>Electrical/Electricity Services</u>	The Ministry of Public Utilities' mandate is to deliver a modern, technological enabled Electricity Sector that supports the nation's expanding digital economy, built environment and industrial infrastructure. Electricity and related services are delivered to the national community through the state-owned entity, the Trinidad and Tobago Electricity Commission (T&TEC) and the Electrical Inspectorate Division, an internal branch of the Ministry of Public Utilities.
<u>Postal Services</u>	TTPost is responsible for the delivery of Government's Universal Service Obligation (USO) to provide high quality postal services, accessible throughout Trinidad and Tobago, at affordable prices. Maintaining a network of distribution and retail outlets, TTPost ensures the acceptance, handling, conveyance and delivery of core postal services to the national community.
<u>Telecommunication Services</u>	Telecommunications Services of Trinidad and Tobago Limited is jointly owned by National Enterprises Limited (NEL) which in turn is majority owned by the Government of Trinidad and Tobago, and Cable & Wireless (West Indies) Limited, (C&W). NEL owns 51% of TSTT's issued share capital, while C&W holds 49%. TSTT is the country's largest provider of communications solutions to the residential and commercial markets and its leading edge products are designed around its IP-based core infrastructure and marketed under the bmobile brand.
<u>Electrical Inspectorate Services</u>	The Electrical Inspectorate Division, an internal branch of the Ministry of Public Utilities, is responsible for the inspection and certification of electrical works in Trinidad and Tobago. With three locations in North and South Trinidad and Tobago, the Electrical Inspectorate Division is staffed by a team of qualified, experienced electrical professionals

<p><b><u>Meteorological Services</u></b></p>	<p>The Trinidad and Tobago Meteorological Services is a Division of the Ministry of the Public Utilities. It operates the following main divisions:</p> <ul style="list-style-type: none"> <li>▪ A Main Meteorological and Forecast Office located at the South Terminal Building at Piarco Airport</li> <li>▪ An Upper Air Station located opposite to Air Guard station.</li> <li>▪ A Climatological and Technical Division at the same location at the Upper Air Station</li> <li>▪ A Meteorological Observing Station at Crown point Airport, Tobago</li> </ul>
<p><b><u>REAP and Electrification Programmes</u></b></p>	<p>The Ministry through its Electrification and Residential Electrification Assistance Programme (REAP) programmes will foster rural and urban equity and assist low income households and communities in accessing an electricity supply.</p>
<p><b><u>Street Lighting and the Illumination of Public Facilities</u></b></p>	<p>The Ministry of Public Utilities (MPU) is committed to the provision of a safe and reliable supply of electricity services to the citizens of Trinidad and Tobago. One key area is the provision of street lighting services which is aimed at providing greater illumination to roadways, highways and communities. The programme started in 2005 and was expanded in 2007, to include the illumination of public places such as facilities under the jurisdiction of the Regional Health Authorities, Cemeteries and Police Stations.</p>
<p><b><u>Utilities Assistance Programme</u></b></p>	<p>From October 1, 2013 the Utilities Assistance Programme (UAP) was extended to include an increase in the subsidy and maximum requirement for electrical consumption. Other low income earners, pensioners and persons with disabilities were also added as possible eligible applicants. Two other components were also added to Programme, all with the aim of providing more options to citizens in ensuring they can access the basic utilities of water and electricity.</p>



<p><b><u>Water Services</u></b></p>	<p>The Ministry of Public Utilities is mandated to manage the nation’s resources in such a manner as to satisfy its diverse customer base while respecting the constraints and carrying capacity of the environment. The state enterprise responsible for the delivery of water and wastewater services to the population of Trinidad and Tobago is the Water and Sewerage Authority (WASA).</p>
<p><b><u>Water and Sewerage Authority</u></b></p>	<p>The Ministry of Public Utilities is mandated to manage the nation’s resources in such a manner as to satisfy its diverse customer base while respecting the constraints and carrying capacity of the environment. The state enterprise responsible for the delivery of water and wastewater services to the population of Trinidad and Tobago is the Water and Sewerage Authority (WASA).</p>
<p><b><u>Utility Regulation</u></b></p>	<p>In Trinidad and Tobago, the Regulated Industries Commission (RIC) is an independent, statutory body established to ensure the promotion of the highest quality of utility services at fair and reasonable rates while building a credible regulatory regime that responds adequately to stakeholders concerns and also to ensure fairness, transparency and equity in the provision of utility services throughout the country.</p>

## Wholly Owned Enterprises

WHOLLY OWNED ENTERPRISES	
National Maintenance Training and Security Company Limited (MTS)	<p>The National Maintenance Training and Security Company Limited is a fully owned state enterprise which was registered in 1979. At this time, it was known as the Secondary Schools Maintenance Training and Security Company Limited (MTS), and enjoyed a relationship with an American company (which had a seven percent (7%) shareholding at the time) who provided management services through hired consultants.</p> <p>The then Government of Trinidad and Tobago had embarked on the construction of nine (9) secondary schools and a decision was taken to provide adequate maintenance and security services for these facilities. Out of this need, MTS commenced operations and the company's name was changed to the National Maintenance Training and Security Company Limited. It also had its Memorandum of Association amended to provide services to customers other than government or government agencies in line with the government's thrust for all state enterprises to be financially viable and self-sufficient. <sup>4</sup></p>
Trinidad and Tobago Solid Waste Management Company Limited (SWMCOL)	<p>The Trinidad and Tobago Solid Waste Management Company Limited (SWMCOL) is a multidisciplinary organization with expertise in environmental consultancy services and waste management. The Company is a wholly owned state enterprise and was established on November 12, 1980 with specific responsibility to manage the collection, handling, treatment and disposal of solid waste in Trinidad and Tobago<sup>5</sup></p>

<sup>4</sup>National Maintenance Training and Security Company Limited (MTS) website, accessed August 24, 2021: <http://www.mtsco.com/new/index.php/company-overview>

<sup>5</sup> Solid Waste Management Company Limited (SWMCOL) website, accessed on August 24, 2021: <https://www.swmcol.co.tt/>

## Majority Owned Enterprises

JOINTLY OWNED ENTERPRISES	
Telecommunications Services of Trinidad and Tobago Limited (TSTT)	<p>Telecommunications Services of Trinidad and Tobago Limited is jointly owned by National Enterprises Limited (NEL) which in turn is majority owned by the Government of Trinidad and Tobago, and Cable &amp; Wireless (West Indies) Limited, (C&amp;W). NEL owns 51% of TSTT's issued share capital, while C&amp;W holds 49%.</p> <p>TSTT is the country's largest provider of communications solutions to the residential and commercial markets and its leading edge products are designed around its IP-based core infrastructure and marketed under its Bmobile brand. TSTT is the industry leader deploying both wireless and fiber optic networks to deliver voice, data and multimedia capabilities making it also one of the most advanced solutions provider in the country.<sup>6</sup></p>

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<sup>6</sup> Telecommunications Services of Trinidad and Tobago Limited (TSTT), accessed on August 24, 2021: <https://www.tstt.co.tt/company-overview>

# Auditor General Report Findings for the Fiscal year 2020

Ref: Auditor General's Report<sup>7</sup>

Agencies	AU/Sub-head	Total Warrants Issued (\$)	Cheques Issued (\$)	Unexpended Balance(\$)
Ministry of Public Utilities	59/39	117,526,642.00	117,526,635.51	6.49

## Appendix I

### COVID-19 EXPENDITURE 2020

Ministry	Ministry (\$)	Audited (\$)	Remarks
39 Ministry of Public Utilities	233,006.54	233,006.54	Additional: T&TEC - \$3,341,153.38, WASA - \$1,337,570.19, TTPost - \$523,749.60, Solid Waste -\$1,730,204.20, COVID Control costs \$62,000.00, MTS \$199,755.80

**Table 3.1 Actual Expenditure in Excess of \$1Bn**

Head of Expenditure	Actual Expenditure (\$)	Percentage of Total Expenditure
39 Ministry of Public Utilities	2,493,956,586.95	4.35

<sup>7</sup> Report of the Auditor General on the Public Accounts of the Republic of Trinidad and Tobago for the Financial Year ended September 30, 2011, pgs. 65. Accessed on September 8, 2021: <http://138.128.179.50/sites/default/files/Auditor-General-Report-2020.pdf>

## Key Statements from 2020 Standing Finance Committee Debate

During the Standing Finance Committee debate of 2020, the following statement was made in relation to the emphasis of the Ministry of Public Utilities for fiscal year **2020/2021**<sup>8</sup>:

*“COVID-19 and its impact on our economy and way of life has heightened the critical importance of effectively providing all our citizens with efficient, quality public utility services. Access to a reliable water supply and electricity, sanitation and telecommunication services in our homes and economic spaces is now an acute necessity to sustain lives and livelihoods as we transition to the new normal and the economy is set on a path to recovery. Mr. Chairman, for fiscal 2021 the Ministry of Public Utilities and its agencies received a reduced allocation of TT \$2.09 billion, which is 31.3 per cent less than fiscal 2020. In this regard, it is to be noted that the cost to an organization on inefficiency and mismanagement is extremely high. Therefore, in the current environment, resource constraint, it is absolutely imperative that our utilities strive to eliminate all inefficiencies and perform at a much higher level of operational efficiency.”*

- **Minister of Public Utilities**

- **The Honourable Marvin Gonzales, MP**

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<sup>8</sup> Standing Finance Committee Hansard of Ministry of Public Utilities October 19, 2020: <http://www.ttparliament.org/legislations/hh20201019sfc.pdf>

## Review of the Public Sector Investment Programme 2021<sup>9</sup>

### *Water*

The Water and Sewerage Authority (WASA) continued to expand the delivery and sustainability of its water supply and to support new initiatives to improve wastewater services for its customers. The Authority implemented its projects with the objective of achieving water security and fulfilling the strategic goals and outcomes under the National Development Strategy (Vision 2030) Development Theme III 'Improving Productivity through Quality Infrastructure and Transportation.' These initiatives also have environmental benefits through the reduction of the impacts of contaminants, and improvements of the self-recovery capacity of natural systems, which are in tandem with Theme V 'Pacing the Environment and the Centre of Social and Economic Development'.

Out of a revised allocation of \$234.5 million provided to WASA for the execution of projects, a total of \$191.1 million was expended in fiscal 2021. The major achievements were as follows:

- rehabilitation of wells in Arima, Sangre Grande, Tucker Valley, Las Lomas, Paramin, Granville, Valencia, Santa Cruz and Grandwood under the Well Development Programme. Approximately one hundred and eighteen thousand (118,000) customers benefitted from an improved water supply with an increased total production of 40,399 m<sup>3</sup> per day;
- completion of the Arouca Well Development Programme. This programme involved the drilling and development of three (3) new wells with related pipeline works to interconnect to the distribution system at the Housing

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<sup>9</sup> Public Sector Investment Programme (PSIP) 2020/2021. Accessed on October 5, 2021: <https://www.finance.gov.tt/publications/national-budget/public-sector-investment-programme/>

Development Corporation (HDC) estates at Arouca and Oropune. Well numbers eight (8) and nine (9) were previously completed in fiscal 2020 and well number ten (10) was completed in December 2020. Approximately one thousand, six hundred and fifty (1,650) persons in La Florissante 1 and 2, Red Hill, Lillian Heights and Timberland benefitted from this programme;

- completion of the installation of 1.7 km of two hundred (200) mm pipeline from South Oropouche Main Road (LP 95 Teetoo Hill) to Avocat Junction along South Oropouche Main Road;
- completion of the installation of a polyvinyl chloride (PVC) main pipeline from Calvary Hill Booster to Calvary Hill Reservoir. Construction of a three hundred thousand (300,000) imperial gallons (IG) glass fused to steel tank at Calvary Service Reservoir was advanced to twenty-seven (27) percent completion;
- continuation of the design and construction of one (1) imperial milli gallons (IMG) glass fused to steel storage tank at Sobo Village in La Brea. The targeted beneficiaries are 116 Caribbean Gas Chemical Limited (CGCL), Trinidad Generation Unlimited (TGU) and the residents in the area;
- continuation of the construction of two (2) one hundred thousand (100,000) IG service reservoirs at the Paramin Booster Station and at the level three (3) Paramin Booster Station under the project Development of New Water Sources Phase One (1) Maraval and Environs. The construction of the storage tanks will improve the water supply to residents and allow for better regulation of system pressures;
- installation of a three hundred thousand (300,000) IG tank at the Guanapo Water Treatment Plant and the interconnection of tanks to the transmission and distribution system. Approximately thirteen thousand (13,000) persons in Arima Bypass, Pinto, Alenore Gardens, Mt. Pleasant, Maturita, Calvary Hill and Environs benefitted from an improved supply of water from three (3) days per week to five (5) days per week;

- completion of the installation of one (1) km of a two hundred (200) mm main along Blue Basin Road and the installation of nine hundred (900) meters of one hundred and fifty (150) mm main in Blue Basin Road under the Non-Revenue Water Reduction Programme. This project resulted in a reduction of water lost from leaking pipelines and an improved reliability of water supply to one thousand, one hundred (1,100) residents in Blue Basin, Harris Drive, Wyan Road, Cicada Drive, Water Wheel Road No.1 and Cizan Trace from two (2) days per week to four (4) days per week; 117
- continuation of the Community Water Improvement Programme (CWIP) which facilitated the provision of water connection to unserved and underserved areas and improved the reliability of the service and class of supply of water to residents. The following rural communities benefitted from the connection of a water supply: Beach Road (Palo Seco), Solomon Street (Fyzabad), Boyack Hill (Santa Flora), Texeira Ext. (Diego Martin), Wharton Street (Point Fortin) and Comparo No. 2 Fishing Pond (Sangre Grande);
- refurbishment of School Street and Richplain booster pumping stations, construction of Seaview booster pumping station and the installation of one thousand, five hundred (1,500) meters of three hundred (300) mm Class E PVC Main from Four Roads Water Treatment Plant to Goodwood Park Crescent along Morne Coco Road/Western Main Road were completed under the Integrated Water Improvement Programme - North West Trinidad. A total of eighteen thousand, one hundred and forty-five (18,145) residents benefitted from an improved water supply;
- implementation of phase three (3) of the project for the Upgrade of Petrotrin Guayaguayare Waste Water Treatment Plant (WWTP). The construction of a coagulation/flocculation/sedimentation system at the Petrotrin Guayaguayare Waste Water Treatment Plant continued and upon completion it will significantly increase plant production;
- continuation of the Rehabilitation of the Ultraviolet (UV) Contact Tank at the Beetham Waste Water Treatment Plant. This project entails the removal of the existing UV contact tank and the design, supply and installation of a new UV



contact tank capable of treating the wastewater flowing through the Beetham WWTP. The procurement of UV equipment for the Beetham WWTP for the supply of 504 UV- Lamps ECORAY SLR 3214  $\frac{3}{4}$  P has advanced and upon completion will safeguard the watercourses from untreated sewage thus 119 ensuring a sanitary environment for approximately one hundred and eighty-two thousand, five hundred (182,500) citizens;

- completion of the evaluation of proposals for the upgrade of TCO Booster Pumping Station as part of the Moruga Well Development project. The pipeline project for the transfer of Sisters Road offtake from five hundred (500) mm main to eight hundred (800) mm main has been completed and will improve water supply services and provide a facility with a high service pumping capacity to deliver treated water to the higher areas of the St. Julian's distribution zone;
- completion of the drilling and equipping of a production well in Calder Hall/Bacolet with the capacity of four hundred thousand (400,000) gallons per day which will result in an improved water supply throughout the year. This project will increase the existing water supply by two (2) million imperial gallons which will improve the level of service to the customers in Tobago and benefit over forty thousand (40,000) citizens;
- award of a contract for the desilting and rehabilitation of the Hillsborough Dam in Tobago. The project entails the removal of two hundred and fifty-six thousand (256,000) m<sup>3</sup> of silt from the dam to designated areas over a thirty (30) months period in order to improve the storage capacity and water supply. The mobilisation of dredger and other heavy equipment was completed in January 2021. A total of five thousand, six hundred and sixty-two (5,662) m<sup>3</sup> of dewatered silt and forty-four (44) truckloads of vegetative cover from the reservoir's water surface and bed were deposited at Valley D as at April 2021. Approximately fifteen thousand (15,000) persons in Bamboo Hill, Cinnamon Hill, Concordia, Ebo Gully, Les Coteaux, Mary's Hill, Mt. Grace, Orange Hill Rd, Mason Hall, Summer Hill, Table Piece, Union and Whim Development have benefitted from an improved supply; and

- completion of the replacement of seven hundred and forty (740) meters of one hundred and fifty (150) mm PVC pipe along All Fields Crown Trace from Old Milford Road Phase two thousand, three hundred (2,300) meters of one hundred (100) mm pipeline at Village Street No. 1, Bon Accord and five hundred and seventy (570) meters of one hundred (100) mm PVC pipe at Lammy Road, Argyle Tobago under the Upgrade of Distribution System – Tobago project. The works involved the collective replacement of dilapidated distribution pipelines in Tobago to improve the localised distribution network by reducing water loss through leakage and ensuring an efficient water supply. Approximately five thousand (5,000) persons benefitted from an improved reliability of service in the areas of Mason Hall, Bacolet, Bon Accord, Mt. Pleasant and Lowlands, Bon Accord, Belle Garden, Mason Hall, Roxborough, Bacolet and Lowlands, Church Street and Mt Grace Trace.

### *Sewerage*

Untreated domestic wastewater contains a variety of pollutants including pathogens, organic particles, toxins, pesticides, herbicides and pharmaceuticals and can lead deleterious impacts on human health and ecosystems. Wastewater management is imperative as it protects the environment and public health through the efficient and effective removal of toxins from raw sewerage. It also lowers economic costs by avoiding the fiscal output for remedial or restorative works.

In fiscal 2021, the sum of \$169.8 million was allocated for the continuation of the two (2) IDBfunded projects, Multi-Phase Wastewater Rehabilitation Programme Phase One (1) and Wastewater Network Expansion. The major achievements under the IDB-funded projects were as follows:

*Multi-Phase Wastewater Rehabilitation Programme Phase One (1):*

- continuation of the construction of the San Fernando Wastewater Treatment Plant and Collection System (CS) phase one (1). The project has an overall completion of ninety-four (94) percent; and
- completion of the connection of seventy-one (71) properties to the Malabar Wastewater System.

*Wastewater Network Expansion:*

- continuation construction of the Trincity Wastewater Treatment Plant which has advanced to eighty-four (84) percent completion; and
- completion of the construction supervision services at the South West Tobago Waste Water Treatment Plant.

*Electricity*

One of the key enablers which determines the level and quality of the standard of living of a country is the provision of efficient, cost-effective and reliable electricity services. Accordingly, Government's continued to pursue the sustainable development in Trinidad and Tobago through the development of resilient electrical infrastructure that will benefit all users. In fiscal 2021, a revised allocation of \$35.0 million was provided to the Trinidad and Tobago Electricity Commission (T&TEC) for the continued development of the electricity infrastructure. Of this sum, a total of \$28.7 million was expended for the advancement of a number of significant projects.

*National Street Lighting Programme*

In an effort to improve citizen security, facilitate community development and enhance the quality of life, the National Street Lighting Programme focused on the illumination of communities, highways and major roadways. The installation of Light Emitting Diode (LED) streetlights and 121 solar LEDs continued as part of the phasing out of old luminaries. A total

of \$2.0 million was utilised for the procurement and installation of luminaries, light poles and street lights. The major achievements included the installation of two hundred and seventy-three (273) LED lights, two (2) High Pressure Sodium (HPS) lights and erection of one hundred and five (105) poles.

### *Lighting of Parks and Recreational Grounds*

In fiscal 2021, a total of \$1.3 million was utilised for the Lighting of Parks and Recreational Grounds. Several recreational grounds have been illuminated, and demand for this service is growing as residents now use these facilities for evening-time leisure, sporting and keep-fit activities.

### *Bulk Power Projects*

In order to provide a stable, safe and reliable power supply to the nation to meet the demands of residential and economic development, T&TEC continued with its Bulk Power Development Programme in 2021. The initiatives - Bulk Power Requirements, New Bulk Power and the Additional Infrastructure to move Power from Trinidad Generation Unlimited (TGU) to the National Grid received a combined allocation of \$10.6 million which was expended on upgrade works and the expansion of transmission and sub-transmission infrastructure to move power from generating sites to load centres. The major activities undertaken included:

- upgrade of the 66kV Pinto Road (Arima) Substation. The project advanced to sixty-seven (67) percent completion;
- payment of compensation to land owners to facilitate the expansion of the power utility corridor from Union Estate, La Brea to Gandhi Village, Debe;
- provision of valuation services required for land acquisition;
- continuation of phase two (2) of the Union Estate to Gandhi Village 220kV Double Circuit Tower Line;

- expansion of the Union Estate 220/66kV Substation and procurement and installation of a 132/12kV transformer and a 12kV switch gear at the Gandhi Village 220/132/12kV Substation;
- upgrade of the Westmoorings Substation and associated circuits which is ninety-eight (98) percent completed;
- re-conducting of Wrightson Road/ Westmoorings No.1 and No. 2 - 66kV circuits;
- upgrade of the Bamboo/ Wrightson Road No. 1 - 66kV circuit; and
- upgrade to Bamboo/ Wrightson Road Circuits No. 2 and No. 3 - 66kV cable circuits.

### *Development of Disaster Preparedness Capabilities in T&TEC Phase II*

Given the recent increase in the frequency and intensity of natural disasters, T&TEC's Disaster Preparedness Programme was developed to minimise disruptions in electricity service in the event of natural or man-made disasters. A total of \$2.0 million was expended to acquire additional resources that will aid the Commission in restoring power to the country in times of disaster. In November 2020, a down payment of \$1.2 million (representing forty [40] percent of the total cost) was paid to the supplier for the procurement of one (1) amphibious vehicle and the associated tools and equipment. The vehicle is expected to be delivered in November 2021.

### *Electrification Programme*

The Electrification Programme continued in the fiscal year 2021 with expenditure of \$1.6 million for the completion of twenty-one (21) projects. This programme seeks to combat poverty, foster urban equality and improve the lives of the less fortunate segments of the population through the provision of an electricity supply.

### *Residential Electrification Assistance Programme (REAP)*

The Residential Electrification Assistance Programme, which seeks to provide financial assistance to low income households in the electrical wiring of their homes, continued with expenditure of \$1.6 million for the completion of fifty-seven (57) house wiring jobs.

### ***Replacement of Ageing Transmission Infrastructure***

The replacement of aged transmission infrastructure ensures continued reliability of the electricity supply. A number of upgrades and works on various transmission and subtransmission circuits were undertaken in fiscal 2021. The key achievements include the replacement of two (2) 66/33 kV transformers at the Wrightson Road Substation and the completion of repair works on the North Oropouche-Toco Link No.1 33 kV circuit.

It has become critical to replace weathered and obsolete transmission infrastructure in a timely manner in order to provide a more climate resilient electricity infrastructure. In this regard, T&TEC undertook a number of upgrades in fiscal 2021 to various transmission and sub-transmission circuits at a cost of \$9.6 million. Works included:

- repair of the St Mary's-Galeota 33kV circuit phase two (2);
- supply of two (2) 66/33kV, 50/70 MVA power transformers for the Wrightson Road 66/33/12kV Substation; and
- completion of the repair of the North Oropouche-Toco Link No.1 - 33kV circuit.

## The Ministry's total allocation as a percentage of the National Budget for the period 2016 to 2022.

Year <sup>10</sup>	Total Allocation <sup>11</sup>	National Budget <sup>12</sup>	Percentage of National Budget
2016	\$3,753,412,795.00	\$56,573,913,053.00	7.0%
2017	\$2,891,091,851.00	\$54,883,153,410.00	5.2%
2018	\$3,060,964,202.00	\$54,211,726,813.00	6.0%
2019	\$2,687,575,783.00	\$54,581,467,181.00	5.0%
2020	\$2,493,956,587.00	\$57,388,076,726.00	4.3%
2021	\$2,830,315,400.00	\$57,292,169,264.00	5.0%
2022	\$2,555,023,600.00	\$57,917,018,000.00	4.4%

- Total allocation for the Ministry as a percentage of the National Budget illustrated that the allocation to the Ministry of Public Utilities decrease by **0.6%** between the period **2020/2021** and **2021/2022**.

<sup>10</sup> For the Fiscal Years 2016-2020, actual figures were used to calculate the total allocation. However, estimates were used to calculate the total allocation for the Fiscal Years 2021 and 2022.

<sup>11</sup> Total Allocation for the Ministry of Public Utilities = Recurrent Expenditure + Consolidated Fund Expenditure

<sup>12</sup> The National Budget = Total Recurrent Expenditure + Development Programme Expenditure: Consolidated Fund

# Where the Ministry spends its money

## *2021-2022 Estimates of Expenditure*

The budget allocation of **\$2,668,981,600** for the Ministry of Public Utilities is comprised of:

- The Draft Estimates of Recurrent Expenditure in the sum of **\$2,474,551,600<sup>13</sup>**;
- The Draft Estimates of Development Programme in the sum of **\$194,430,000<sup>14</sup>**
  - Consolidated Fund in the sum of **\$80,472,000**; and
  - Infrastructure Development Fund<sup>15</sup> of the sum **\$113,958,000**.

The Estimates of Recurrent Expenditure include:

- 01 Personnel Expenditure - **\$23,567,000**;
- 02 Goods and Services - **\$315,479,030**;
- 03 Minor Equipment Purchases **\$2,305,050**;
- 04 Current Transfers and Subsidies **\$881,288,020**, and
- 06 Current Transfers to Statuary Boards and Similar Bodies **\$1,251,912,500**

The Ministry of Public Utilities:

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<sup>13</sup> Draft Estimates of Recurrent Expenditure for the financial year 2022 accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-Details-of-Recurrent-Expenditure-2022.pdf>

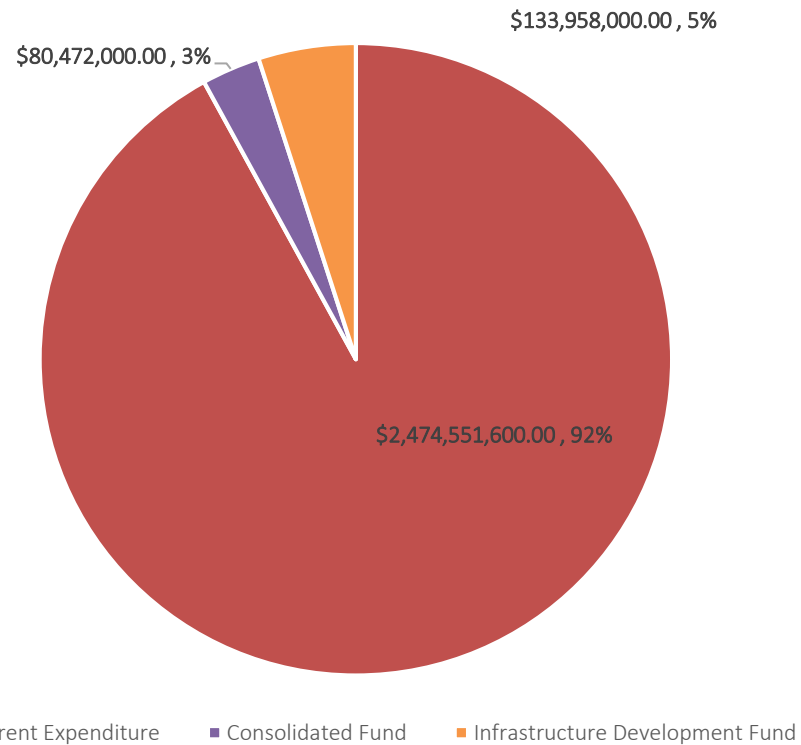
<sup>14</sup> Draft Estimates of Development Programme 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>

<sup>15</sup> Head 18 –Ministry of Finance, Sub-Head 04 – Current Transfers and Subsidies, Sub-Item 11- Infrastructure Development Fund (IDF) (Infrastructure Development Fund allocation is part of the Ministry of Finance allocation for the financial year. *Therefore, the total recurrent expenditure for the Ministry of National Security does not include IDF funding.*

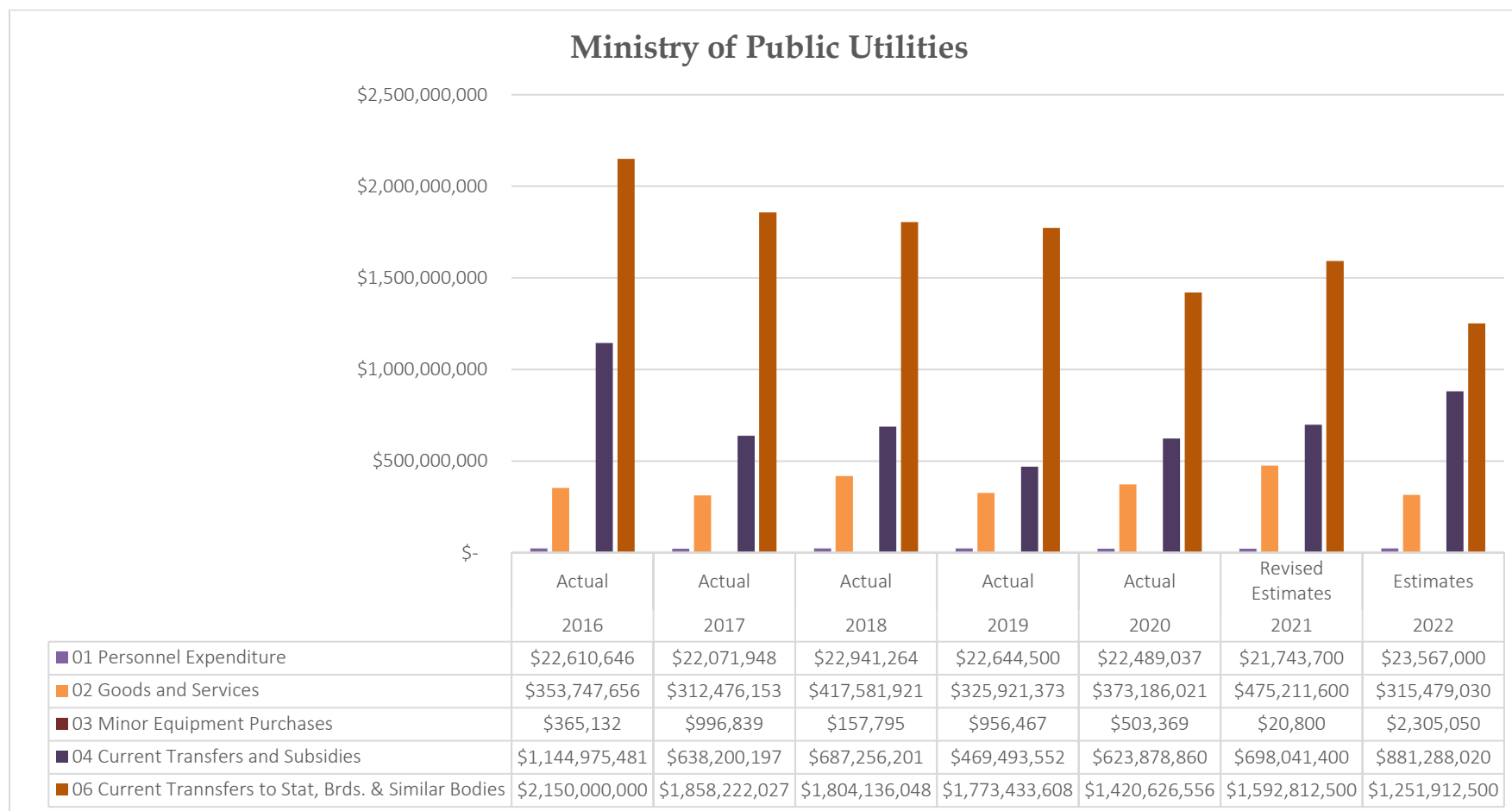


- Total allocation as a percentage of National Budget is 5%;
- Recurrent Expenditure as a percentage of the total Recurrent Expenditure budget is 4.5%
- Consolidated Fund allocation as a percentage of the total Consolidated Fund allocation is 3.2%
- Infrastructure Development Fund allocation as a percentage of the total Infrastructure Development Fund is 7%

### Total Allocation for the Ministry of Public Utilities



## Summary of Recurrent Expenditure for the period 2016-2022<sup>16</sup>



<sup>16</sup> Ministry of Finance, Draft Estimates of Recurrent Expenditure 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-Details-of-Recurrent-Expenditure-2022.pdf>

## Analysis of Recurrent Expenditure<sup>17</sup>

Recurrent Expenditure refers to the payments for expenses, which are incurred during the day-to-day operations of the Ministry for Personnel Expenditure, Goods and Services, Minor Equipment Purchases and Current Transfers and Subsidies.

Recurrent Expenditure for Fiscal Year 2021/2022 is **\$2,474,551,600**

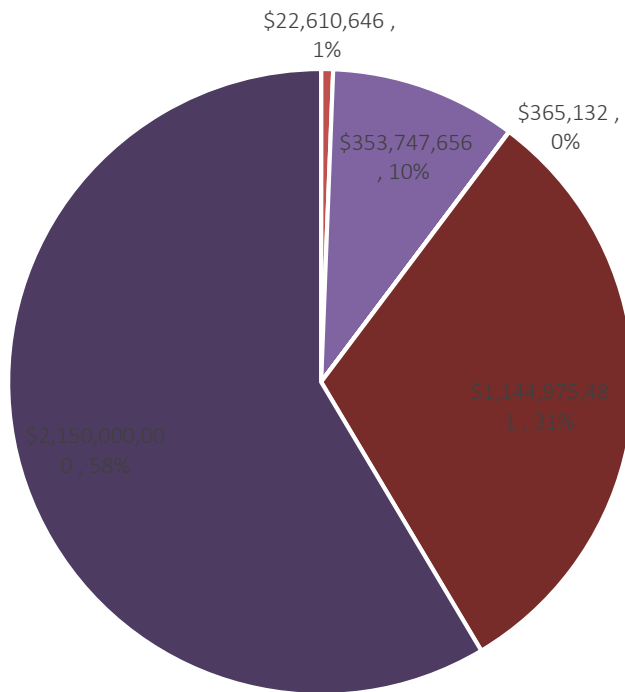
- **Recurrent Expenditure** for Fiscal Year 2020/2021 (revised) was **\$2,787,830,000**. Comparing this figure with Fiscal Year 2021/2022, there is a decrease of **\$313,278,400** or 11%.
- Sub-Head 02 Goods and Services received **\$315,479,030** for fiscal year 2021/2022. Comparing this figure to 2020/2021, there was a decrease and represents approximately **12%** of the total budget allocation received by the Ministry.
- The largest portion of the allocation has consistently gone to **Sub-Head 06 Current Transfers to Statutory Boards and Similar Bodies**. This figure has fluctuated over the period **2016-2022**, and accounts for approximately **47%** of total funding for the Ministry for fiscal year **2021/2022** for the day-to-day operations.
- **Minor Equipment Purchases** received the **lowest** portion of the total allocation for the Ministry over the period 2016 to 2022 and accounts for **0.1%** of total funding for the Ministry for fiscal year 2021/2022.

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<sup>17</sup> Ministry of Finance, Draft Estimates of Recurrent Expenditure 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-Details-of-Recurrent-Expenditure-2022.pdf>

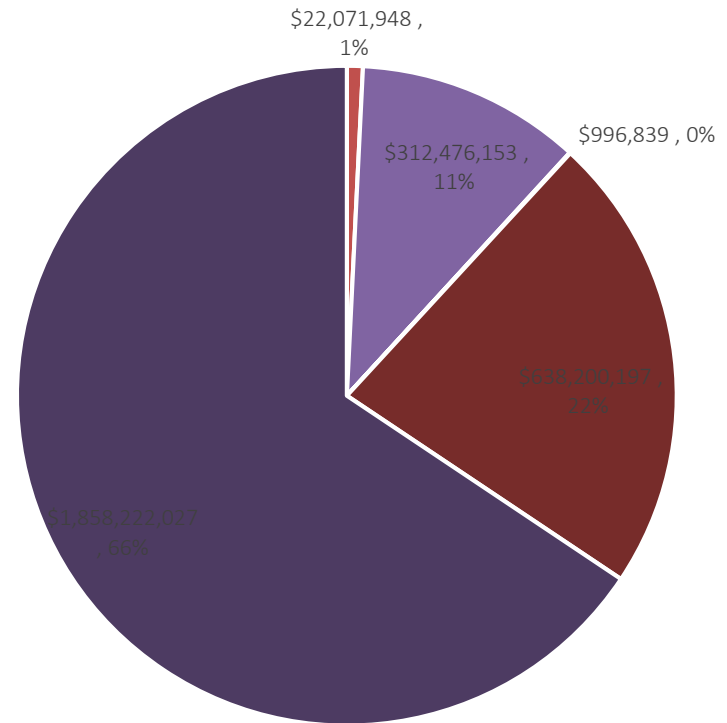
- **Sub-Head 04 Current Transfers and Subsidies** received the second largest portion of the allocation, which has fluctuated over the period 2016–2022. Comparing 2020/2021 to 2021/2022, there was an increase in the allocation by 7%.
- The total allocation has fluctuated over the seven (7) year period with a low of **\$2,440,683, 843.00** in the fiscal year 2020 and a high of **\$3,671,698,915** in fiscal year 2016.

2016 Actual \$4,038,855,954



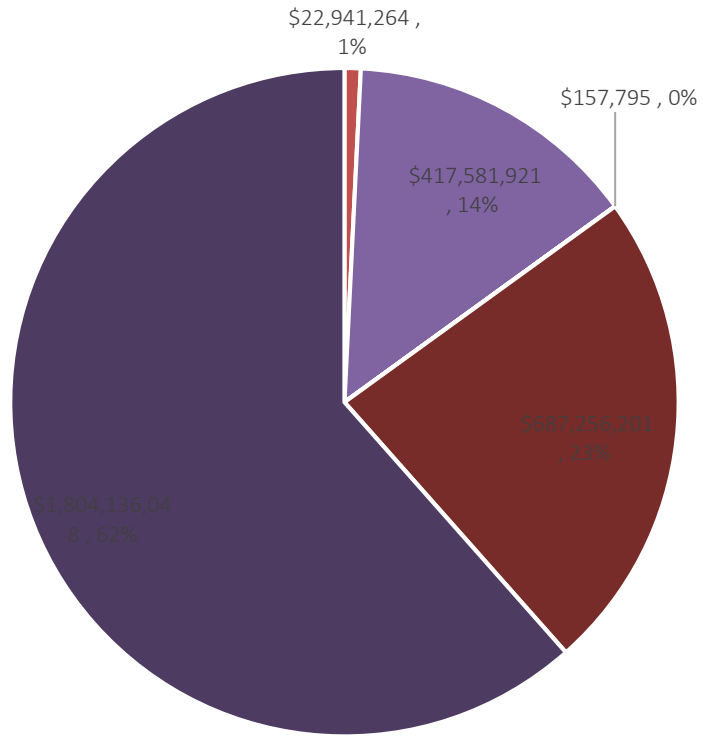
- 01 Personnel Expenditure
- 02 Goods and Services
- 03 Minor Equipment Purchases
- 04 Current Transfers and Subsidies
- 06 Current Transfers to Stat, Brds. & Similar Bodies

2017 Actual \$4,092,435,323



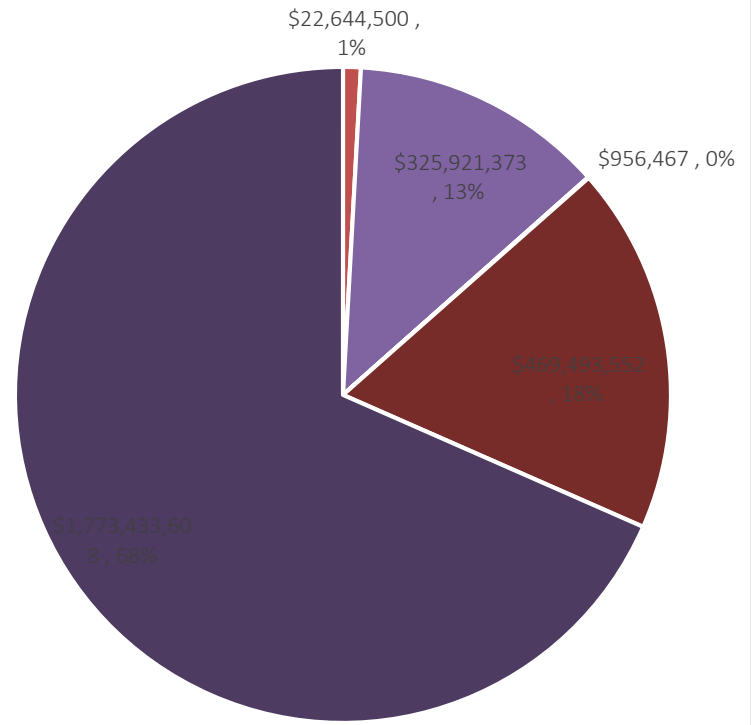
- 01 Personnel Expenditure
- 02 Goods and Services
- 03 Minor Equipment Purchases
- 04 Current Transfers and Subsidies
- 06 Current Transfers to Stat, Brds. & Similar Bodies

2018 Actual \$2,932,073,229



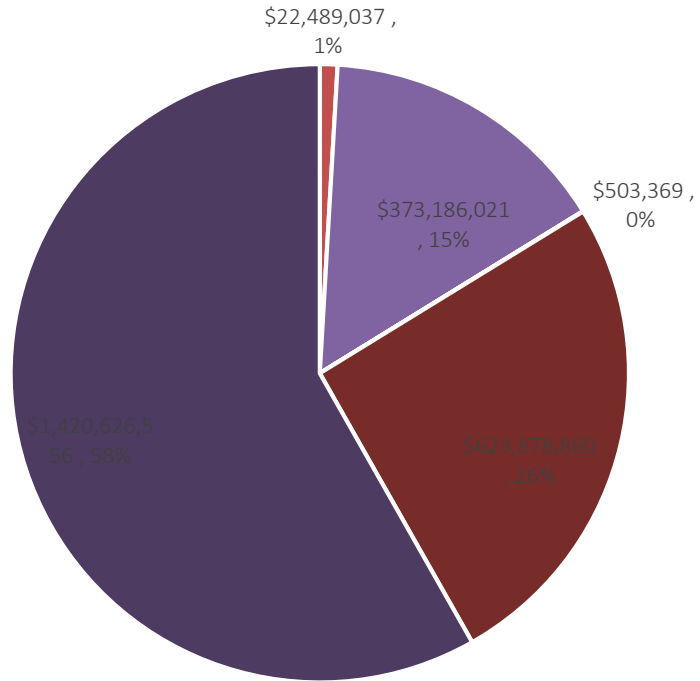
- 01 Personnel Expenditure
- 02 Goods and Services
- 03 Minor Equipment Purchases
- 04 Current Transfers and Subsidies
- 06 Current Transfers to Stat, Brds. & Similar Bodies

2019 Actual \$2,592,449,500



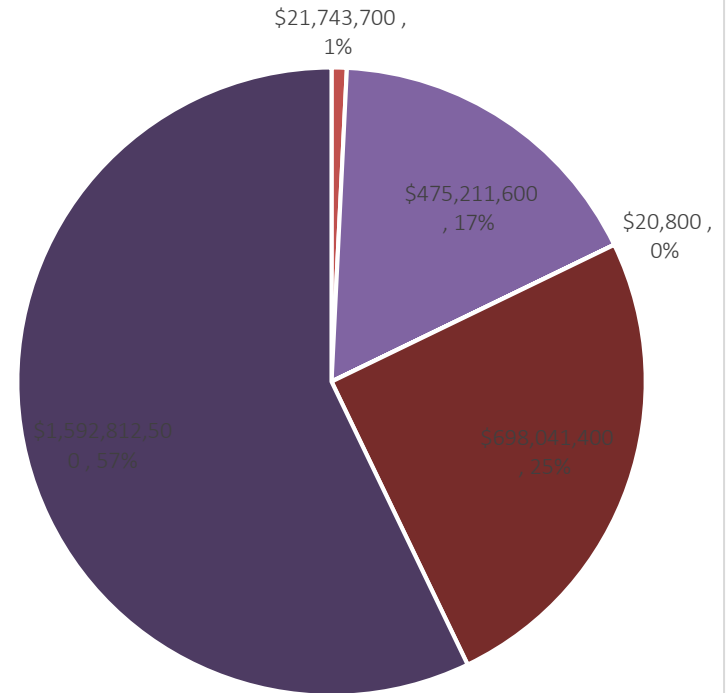
- 01 Personnel Expenditure
- 02 Goods and Services
- 03 Minor Equipment Purchases
- 04 Current Transfers and Subsidies
- 06 Current Transfers to Stat, Brds. & Similar Bodies

2020 Actual \$2,440,683,843



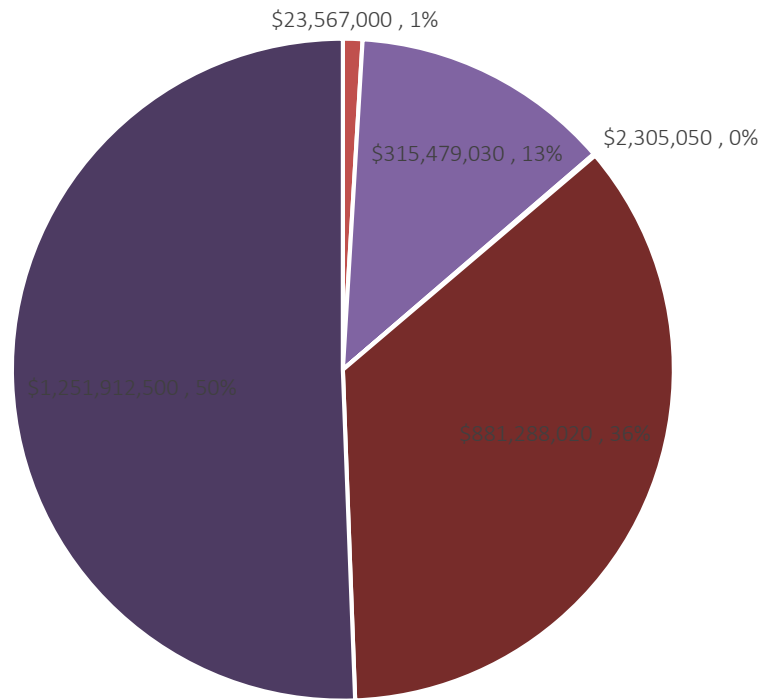
- 01 Personnel Expenditure
- 02 Goods and Services
- 03 Minor Equipment Purchases
- 04 Current Transfers and Subsidies
- 06 Current Transfers to Stat, Brds. & Similar Bodies

2021 Revised Estimates \$2,787,830,000



- 01 Personnel Expenditure
- 02 Goods and Services
- 03 Minor Equipment Purchases
- 04 Current Transfers and Subsidies
- 06 Current Transfers to Stat, Brds. & Similar Bodies

2022 Estimates \$2,474,551,600

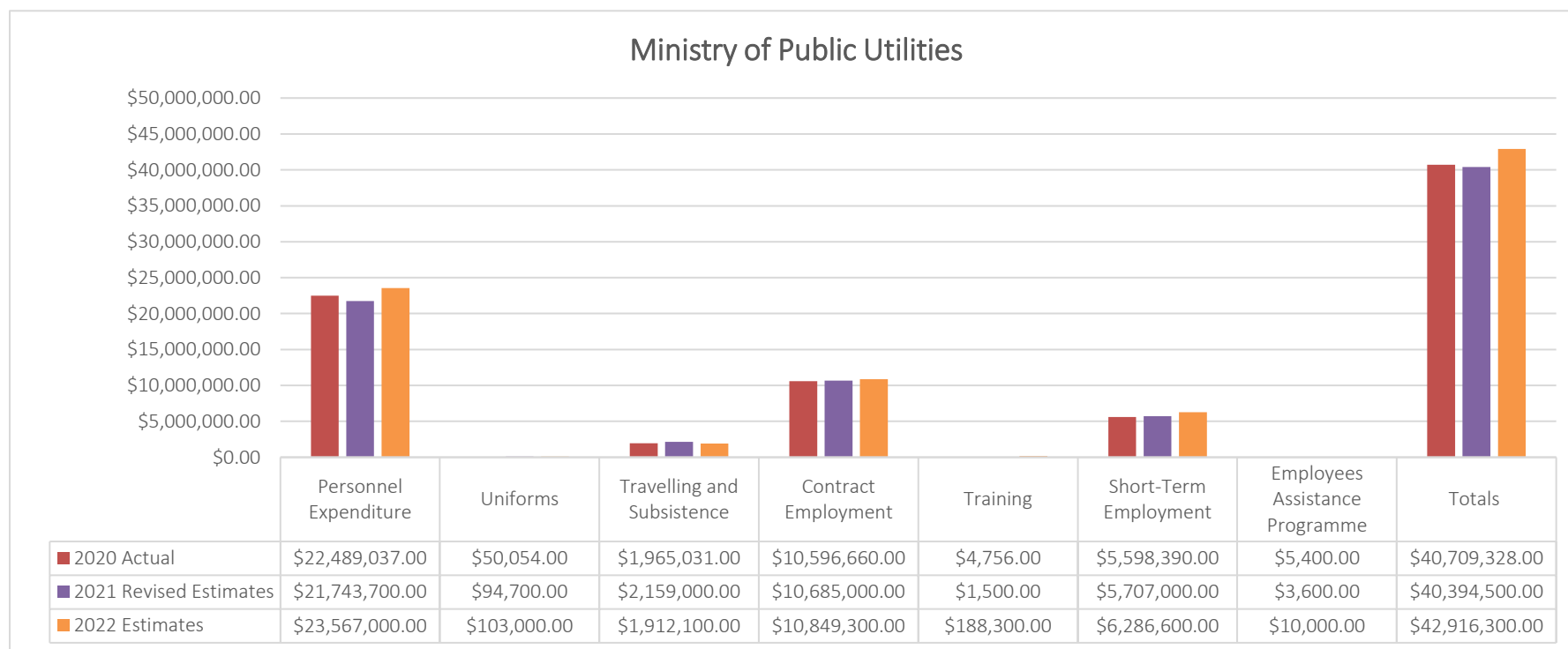


- 01 Personnel Expenditure
- 02 Goods and Services
- 03 Minor Equipment Purchases
- 04 Current Transfers and Subsidies
- 06 Current Transfers to Stat, Brds. & Similar Bodies



## Staff and Pay<sup>18</sup>

The allocation to staff expenditure for the year 2022 is **\$42,916,300.00**, which represents an increase of approximately 6.2% from the last fiscal year 2021 (revised). The diagram below provides a breakdown of all expenditure related to staff from 2020–2022.



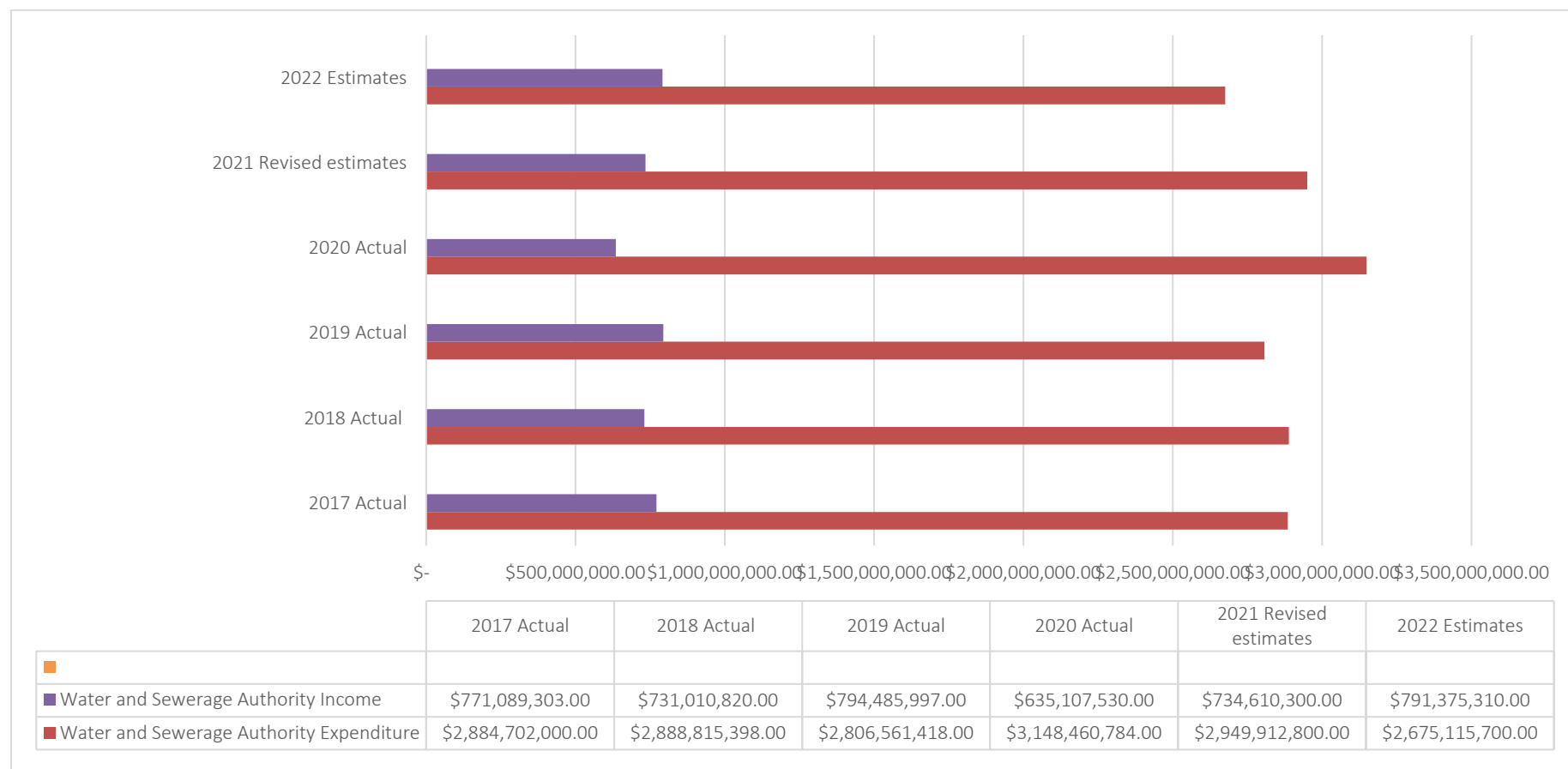
<sup>18</sup>Ministry of Finance, Draft Estimates of Recurrent Expenditure 2022, accessed on October 5, 2022: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-Details-of-Recurrent-Expenditure-2022.pdf>

## Analysis of the Water and Sewerage Authority

- The allocation received for Fiscal Year 2021/2022 is **\$2,675,115,700**
- **Sub-item 16 - Contract Employment** for fiscal 2021/2022 is **\$203,000,000**. In comparison to fiscal 2020/2021, this sub-item received a **53% decrease**.
- **Sub-item 12 - Materials and Supplies** received an allocation of **\$425,320,020** in fiscal 2021/2022, a **19% decrease** from fiscal 2020/2021.
- Notably, **Sub-Item 01 Salaries and Cost of Living Allowance** received a **23% decrease** in allocation of **\$45,000,000** for fiscal 2021/2022.
- The total allocation for the Authority has fluctuated over the three (3) year period with a low of **\$2,675,115,700** in the fiscal year 2022 and a high of **\$3,148,460,784** in fiscal year 2020.

## Water and Sewerage Authority Expenditure vs Income Allocation 2017-2022<sup>19</sup>

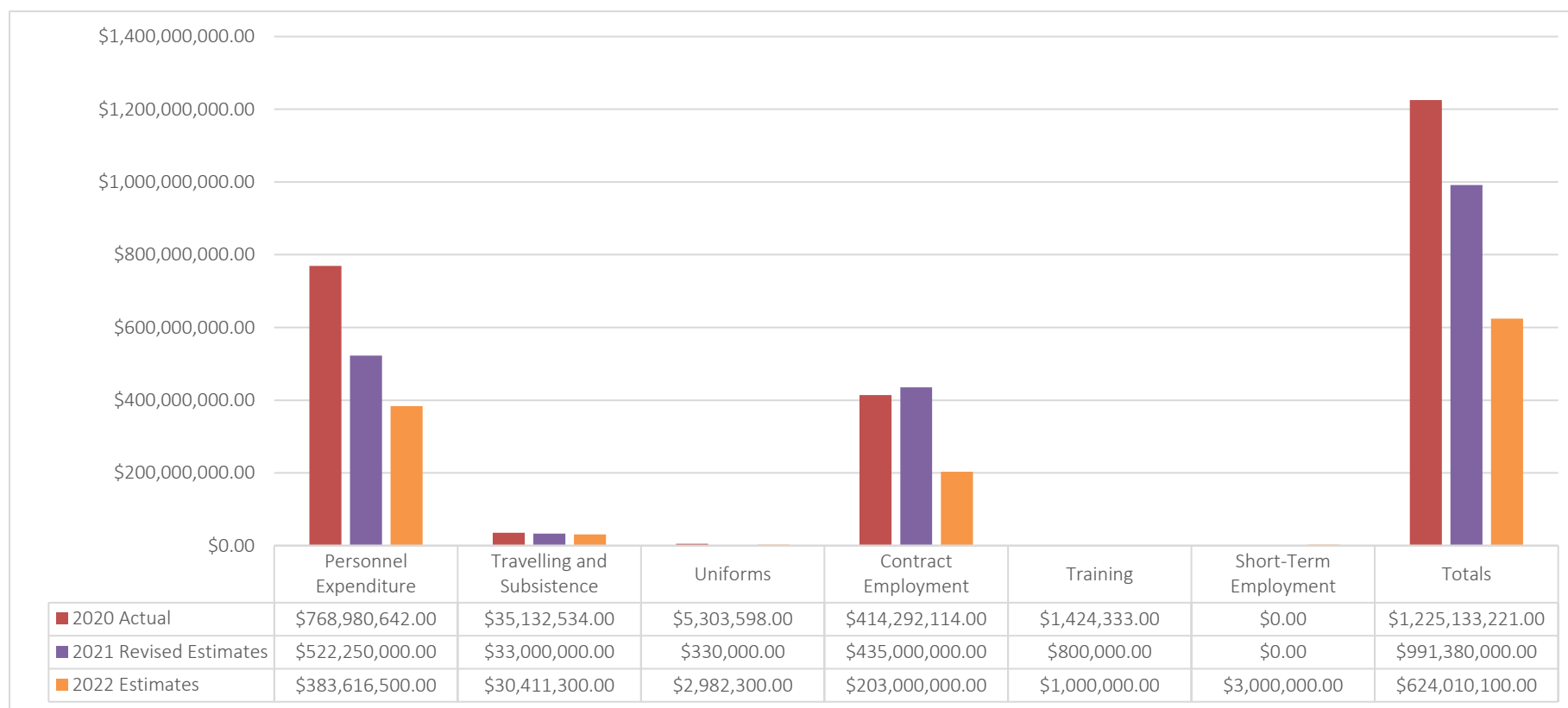
The following chart illustrates the sum expended by the Water and Sewerage Authority versus the income earned for the period 2016-2022.



<sup>19</sup> Draft Estimates of the Revenue and Expenditure of the Statutory Boards and Similar Bodies and of the Tobago House of Assembly 2022 Ministry of Finance website, accessed on October 6, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-the-Revenue-and-Expenditure-of-the-Statutory-Boards-and-Similar-Bodies-and-THA-for-the-Year-21.pdf>

## Staff and Pay<sup>20</sup>

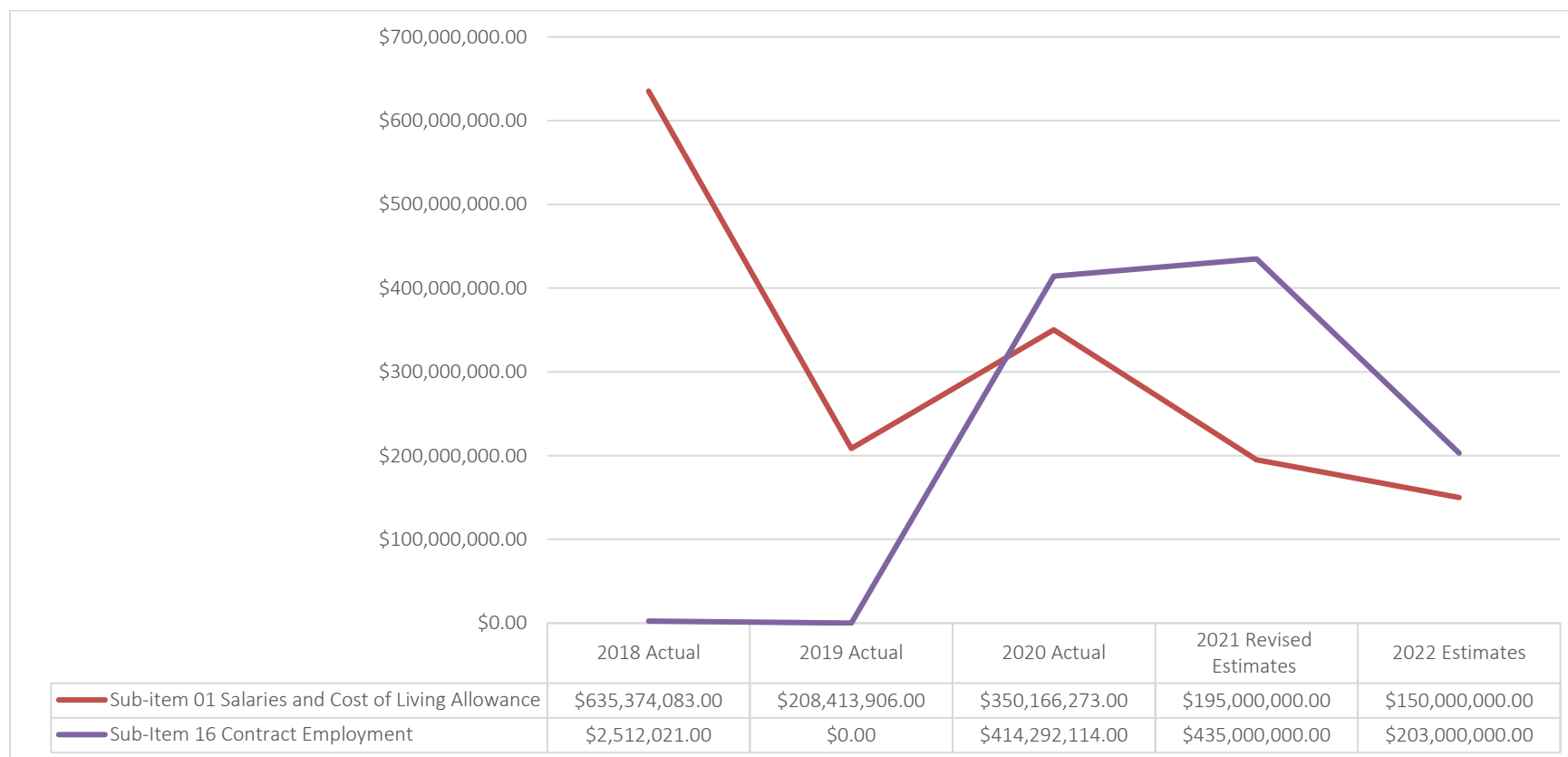
The Water and Sewerage Authority’s allocation to staff expenditure for the year 2022 is **\$624,010,100**, which represents an decrease of approximately 37% from the last fiscal year 2021 (revised). The diagram below provides a breakdown of all expenditure related to staff from 2020–2022.



<sup>20</sup> Draft Estimates of Recurrent Expenditure 2022 Ministry of Finance website, accessed on October 6, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-Details-of-Recurrent-Expenditure-2022.pdf>

## Increases/Decreases for noteworthy sub-items under the Water and Sewerage Authority<sup>21</sup>

The following graph illustrates the funds allocated to noteworthy sub-items under the Water and Sewerage Authority for the period 2017-2022



<sup>21</sup> Draft Estimates of the Revenue and Expenditure of the Statutory Boards and Similar Bodies and of the Tobago House of Assembly 2022 Ministry of Finance website, accessed on October 6, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-the-Revenue-and-Expenditure-of-the-Statutory-Boards-and-Similar-Bodies-and-THA-for-the-Year-21.pdf>

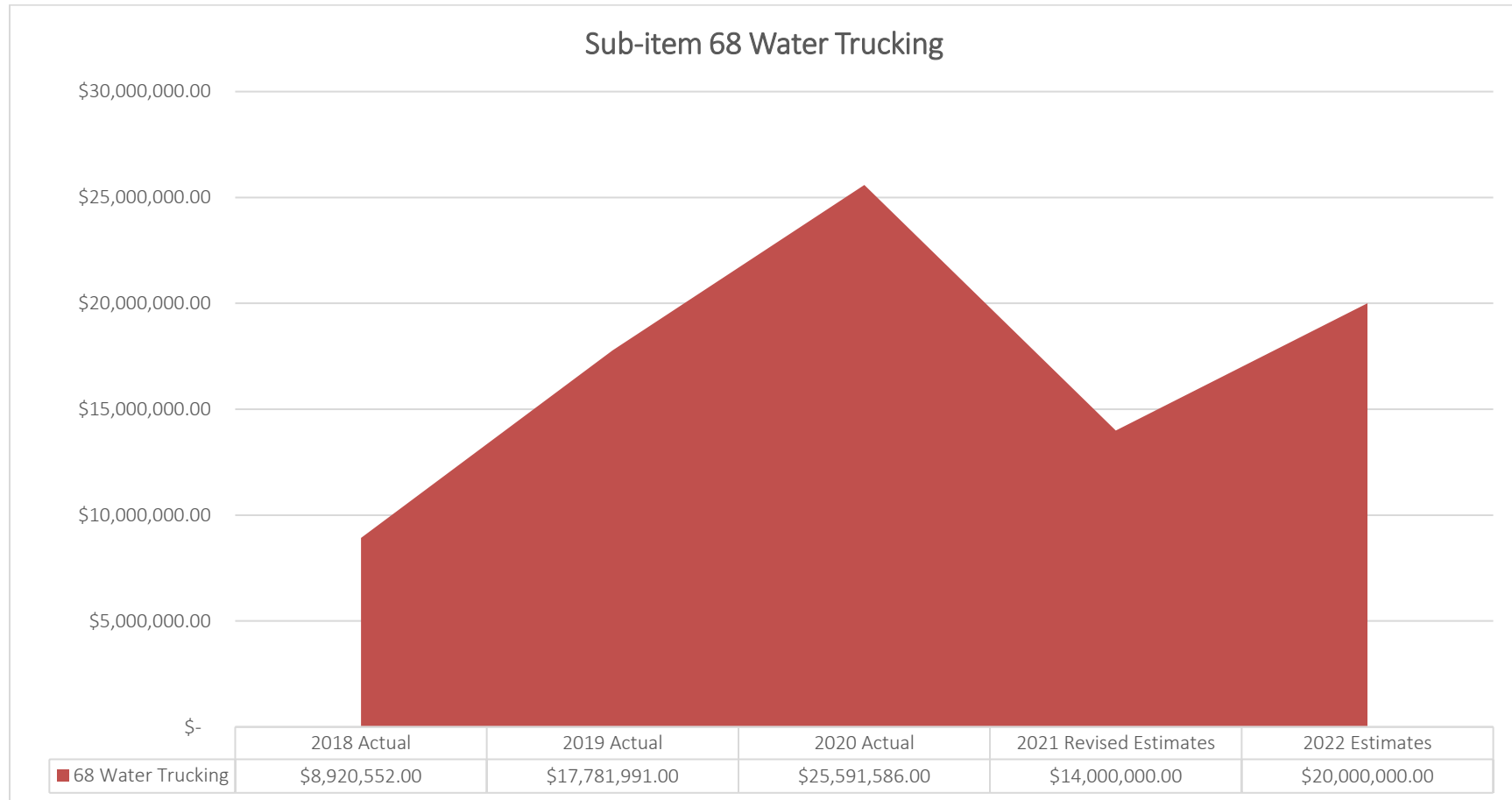
## Sub-item 12- Material and Supplies

The graph illustrates the total funds allocated to sub-item 12 Material and Supplies for the period 2018-2022



## Sub-item 68 - Water Trucking<sup>22</sup>

The graph illustrates the funds allocated to sub-item 68 Water Trucking for the period 2018-2022.



<sup>22</sup> Draft Estimates of the Revenue and Expenditure of the Statutory Boards and Similar Bodies and of the Tobago House of Assembly 2022 Ministry of Finance website, accessed on October 6, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-the-Revenue-and-Expenditure-of-the-Statutory-Boards-and-Similar-Bodies-and-THA-for-the-Year-21.pdf>

## Summary of Development Programme Expenditure for the period

### 2016- 2022<sup>23</sup>

Development Programme is capital expenditure aimed at improving and enhancing development in different areas of Trinidad and Tobago which includes; human resources, economic and social development.

The allocation to the Ministry of Public Utilities for development programmes and projects for fiscal year **2021/2022 = \$194,430,000**. These funds are presented in two parts as follows:

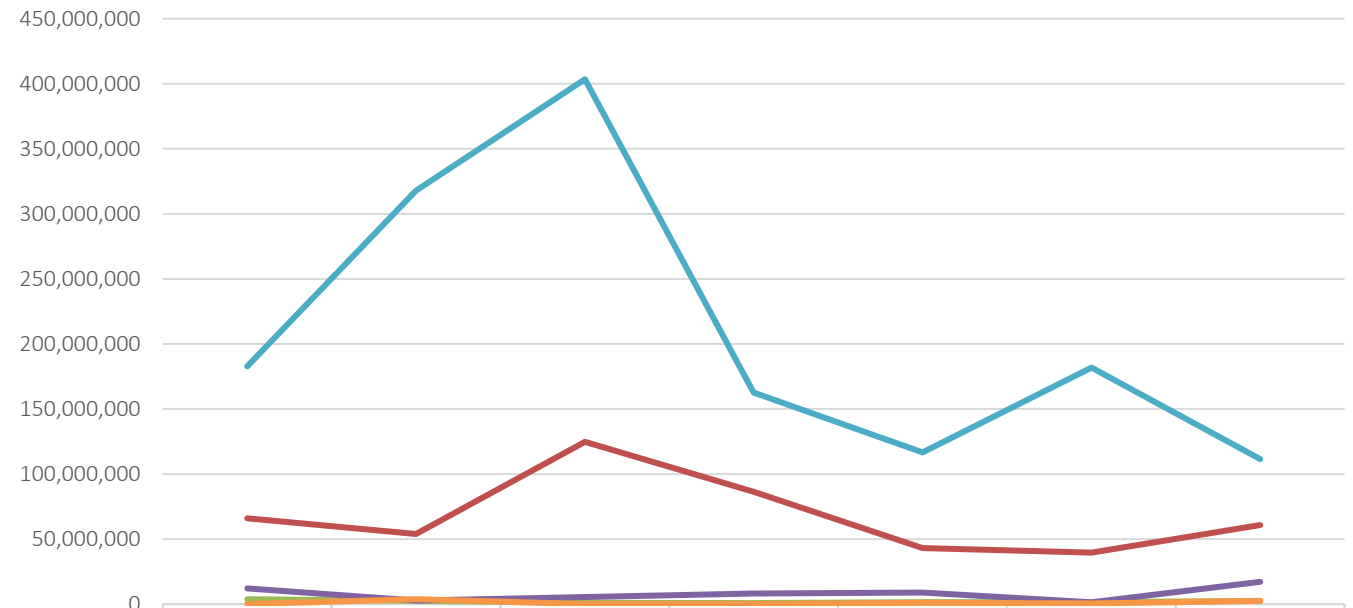
- Funds disbursed directly from the Consolidated Fund = **\$80,472,000**. and represent **(3.2%)** of the total allocation to the Ministry; and
- Funds disbursed from the Infrastructure Development Fund = **\$113,958,000** and represent **(7%)** of the total allocation to the Ministry.

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<sup>23</sup> Ministry of Finance, Draft Estimates of Development Programme 2022, accessed on October 6, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>



### Ministry of Public Utilities



	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Revised Estimates 2021	Estimates 2022
003 Economic Infrastructure - Consolidated Fund	65,850,854	53,953,812	124,736,100	86,301,747	42,968,025.00	39,562,500.00	60,872,000.00
004 Social Infrastructure - Consolidated Fund	3,746,412	2,531,245	1,000,000	763,075	1,404,287	1,562,900	2,500,000
005 Multi-Sectoral and Other Services - Consolidated Fund	12,116,674	2,639,630	5,510,000	8,061,561	8,900,432	1,360,000	17,100,000
003 Economic Infrastructure - Infrastructure Development Fund	182,774,545	317,985,109	403,490,000	162,531,899	116,669,384	181,809,000	111,458,000
005 Multi-Sectoral and Other Services - Infrastructure Development Fund	0	3,758,042	0	0	857,251	486,000	2,500,000

## Public Sector Investment Programme (PSIP) 2021/2022 Projections<sup>24</sup>

### **Water**

Developing a high quality, efficient public utilities system is crucial to human and economic development, as it facilitates the improvement of lives and livelihoods through health, business and environmental protection. In this regard, Government will continue to pursue the achievement of an adequate and reliable supply of water that is accessible by all citizens. Moreover, in its commitment to improve the functioning of Water and Sewerage Authority (WASA), Government has adopted a strategic approach to improve the efficiency and effectiveness of water services delivery. This approach is well aligned to the tenets of Vision 2030, and the recommendations of the Roadmap to Recovery Committee as well as those of the Community Recovery Committee, all of which highlight that the basic needs of citizens must be provided for to ensure socio-economy recovery.

As such, over the medium term, heightened focus will be placed on supporting WASA to better achieve its mandate of delivering a safe, reliable and efficient water supply to satisfy the demands of all sectors of the economy. The WASA will continue to implement its projects with the objective to expand its coverage and improve the quality of service to provide efficient, cost-effective and reliable water and waste water services with improved access for all citizens. These activities are deemed critical in ensuring that citizens have a sustainable access to water that is clean and sanitary for human consumption, whilst reducing water pollution and fostering environmental sustainability.

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<sup>24</sup> Ministry of Finance website, Public Sector Investment Programme 2022. Accessed on October 5, 2021: <https://www.finance.gov.tt/publications/national-budget/public-sector-investment-programme/>

In fiscal 2022, an overall allocation of \$130.1 million will be provided for the continued implementation of the following projects and the commencement of the National Water Sector Transformation Programme (NWSTP) and Wastewater Projects Trinidad and Tobago, which are geared towards achieving water security and fulfilling the strategic goals and outcomes under the National Development Strategy's (Vision 2030) Development Theme III 'Improving Productivity through Quality Infrastructure and Transportation':

- installation of 1.2km of 200mm pipeline from South Oropouche Main Road (LP 95 Teetoo Hill) to Avocat Junction along South Oropouche Main Road under phase two [2] of the project for the Construction of Avocat Wells. This project entails the replacement of water mains in the Oropouche and Avocat district and is key to Government's initiative for reducing non-revenue water, as it will reduce leakage on the distribution main serving the approximately one thousand [1,000] residents in Fyzabad and Oropouche communities;
- drilling and equipping of six (6) wells and the rehabilitation of nineteen [19] wells under the Well Development Programme which will increase the total volume of water by four thousand one hundred and ninety-four [4,194] cubic meters per day in the following areas: Arima, Sangre Grande, Tucker Valley, Las Lomas, Granville, Valencia and Paramin;
- replacement of leaking transmission and distribution mains under the Non-Revenue Water Reduction Programme.

In fiscal 2022, the following activities will be undertaken:

- installation of 740m of 400mm DI Pipe from Petrotrin Guayaguayare Water Treatment Plant to LP1 (ASD5/2/21, ECD-1/10/21); and
- installation of 770m of 150mm PVC, replacing the existing 75mm Steel from the La Wai River to the Guayaguayare Water Treatment Plant along the Guayaguayare Mayaro Road (ESD- 8/10/21, ECD-29/4/22);

- implementation of the Integrated Water Improvement Programme in the north western areas of Trinidad and Tobago. In fiscal 2022, the following activities will be undertaken:
  - fabrication, civil and mechanical works of discharge pool, electrical works, pipe manifold and header, and installation of one [1] pump at the Tucker Valley booster pumping station; and
  - installation of fifteen [15] pressure reducing valves (PRVs) on individual customer service connections as an alternative solution for Seaview Hill distribution;
- construction of two [2] 100,000 IG storage reservoir tanks at the Paramin booster pumping station in the Maraval area under phase one [1] of the project for the Development of New Water Sources. Construction of the service reservoirs will provide an increased storage capacity and emergency supply; stabilisation of system pressures; and reduction in scheduling for residents in the Paramin Maraval area;
- construction of a coagulation/flocculation/sedimentation system under phase three [3] of the project for the Upgrade of Petrotrin Guayaguayare Waste Water Treatment Plant;
- continuation of the project Rehabilitation of the Ultraviolet Contact Tank at the Beetham Waste Treatment Plant; and
- upgrade of pump-sets and related ancillary equipment at TCO booster pumping station as part of the Moruga Well Development project which will provide an improved service reliability to customers who currently receive an intermittent supply due to the scheduling of booster operations. Approximately twenty-five thousand six hundred and ninety-seven [25,697] residents of the constituencies of Princes Town North, Princes Town South/Tableland, Naparima will benefit from the upgrade works.

### *National Water Sector Transformation Programme (NWSTP) – NEW*

The National Water Sector Transformation Programme is a new project that was proposed by WASA for fiscal 2022 to implement a phased ten [10] year programme to secure water resources and to strengthen the sector's regulatory and institutional environments. This programme consists of the components Water Stabilization and Improvement; Water Sector Transformation and Network

Optimisation. An allocation of \$25.0 million will be provided in fiscal 2022.

In addition, WASA will continue to work with the THA to provide a reliable and efficient water supply to customers in Tobago. The sum of \$9.0 million will be provided in fiscal 2022 for the continuation of the project Desilting and Rehabilitation of Hillsborough Dam in Tobago and the following activities will be undertaken:

- enabling works for the desilting of Hillsborough reservoir which entails the construction of a staging area, dewatering area, disposal sites and access roads to facilitate the desilting of the Hillsborough reservoir;
- desilting of the Hillsborough reservoir which includes the removal of 256,000 m<sup>3</sup> of silt from the Dam to approved disposal sites; and
- consultancy for supervision for the desilting of the Hillsborough Dam.

### *Sewerage*

Proper sanitation is fundamental to human sustenance, health and dignity, and by extension, to economic opportunity. Wastewater must, therefore, be properly treated in accordance with world standards in order to protect human health and the environment. In fiscal 2022, the sum of \$81.2 million will be allocated for the continued implementation of the *Multi-*

*Phase Wastewater Rehabilitation and Wastewater Network Expansion projects and the commencement of Wastewater Projects Trinidad and Tobago.*

### ***Multi-Phase Wastewater Rehabilitation Programme***

An allocation of \$70.0 million will be provided in fiscal 2022 for the following continuation works at the San Fernando wastewater treatment plant and collection system:

- construction supervision services;
- procurement of equipment for sewer maintenance; and
- audit services and final evaluation.

### ***Wastewater Network Expansion***

An allocation of \$6.5 million will be provided in fiscal 2022 for the following continuation works at the Trincity and Maloney Wastewater Treatment Plants:

- design and construction of Trincity wastewater treatment plant;
- construction supervision services for Trincity wastewater treatment plant;
- detailed designs of the Maloney wastewater treatment plant;
- financial audit execution; and
- final evaluation.

### *Wastewater Projects Trinidad and Tobago - NEW*

In articulating the need to address the provision of services to improve the quality of lives of the citizens, the Roadmap to Recovery Report emphasises the importance of water and waste water management to facilitate smart growth through spatial and infrastructure development. One of the strategies to achieve this is through the expansion of wastewater programmes. As such, an allocation of \$4.7 million will be provided in fiscal 2022 for WASA to commence the implementation of Wastewater Projects Trinidad and Tobago. This project is geared towards the refurbishment of various wastewater treatment plants in Trinidad and Tobago.

### *Electricity*

Government is committed to the development of robust electricity infrastructure, which plays a critical role in the country's ability to diversify production, expand trade, population growth, reduce poverty and improve health and safety. As such, the long term goal is to provide resilient public utility systems, to this end, the sum of \$40.3 million will be allocated to the Ministry of Public Utilities in fiscal 2022 towards the continued implementation of the electricity programme through the Trinidad and Tobago Electricity Commission (T&TEC).

The citizens of Trinidad and Tobago will continue to benefit from well-lit communities and roadways under the National Street Lighting Programme which will contribute to a greater sense of safety and security at night time. With an allocation of \$2.0 million, the Commission will continue to expand its Light Emitting Diode (LED) streetlights with the purchase of materials for the installation of eight hundred and seventy-five [875] LED lights and one hundred and twenty [120] poles.

The *Disaster Preparedness Phase II* programme will continue in fiscal 2022 with an allocation of \$4.9 million for the delivery and commissioning of an amphibious vehicle with the associated tools and equipment. The amphibious vehicle will assist the restoration of electricity supply to areas affected by natural or man-made disasters.

The T&TEC will continue with its *Bulk Power Development Programme* in order to enhance the transmission and sub-transmission infrastructure to provide a more secure and reliable power supply. The projects Bulk Power Requirements, New Bulk Power and the Additional Infrastructure to move *Power from Trinidad Generation Unlimited (TGU)* to the National Grid will receive a combined

allocation of \$20.6 million to undertake the following activities:

- upgrade of the Pinto Road 66 KV Substation;
- payment of compensation to land owners;
- upgrade of the Westmoorings Substation;
- reconditioning of Wrightson Road/Westmoorings 66 kV Circuits #1 and #2;
- upgrade Bamboo/Wrightson Road 66 kV No.1 Circuit;
- upgrade Bamboo/Wrightson Road 66 kV No. 2 and No. 3 Circuits;
- establishment of a Union Estate/Gandhi Village 220 kV Double Circuit; and
- installation of two [2] 132/12kV- 30/40 MVA transformers at the Gandhi village Substation.

*Lighting of Parks and Recreational Grounds* will continue with the illumination of recreational facilities which will improve the lifestyle and health of citizens, create greater camaraderie among residents and build sporting competitive. An



allocation of \$1.2 million will be provided for the illumination of four [4] new grounds as well as for upgrades to two [2] existing grounds.

The *Electrification Programme*, which is aimed at improving the quality of life for citizens, will continue with an allocation of \$3.0 million for the provision of an electricity supply to 60 households throughout Trinidad and Tobago.

The *Residential Electrification Programme (REAP)* which is also aimed at improving the quality of life of citizens, will continue with an allocation of \$2.5 million for the provision of house wiring assistance to an estimated one hundred and eighty [180] households.

In order to maintain a consistent supply of electricity, aged transmission infrastructure must be replaced in a timely manner. The Commission will continue to upgrade its aging transmission with an allocation of \$5.0 million under the programme for the Replacement of Aging Transmission Infrastructure. The following activities on transmission and sub-transmission circuits will be undertaken:

- repair of the St. Mary's-Galeota 33 kV Circuit (Phase III);
- replacement of underground cables on the Port of Spain-Port Authority 33kV Circuit; and
- replacement of two [2] 66/33 kV, 50/70 MVA power transformers for the Wrightson Road 66/33/12 kV Substation.

The T&TEC is committed to implementing initiatives that will aid in energy efficiency, gas savings and reduce carbon emissions. The Commission will explore the possibility of using wind energy for power generation. In order to determine the feasibility of wind generation, a wind resource assessment will be required.

An allocation of \$0.8 million will be provided under Renewable Energy Initiatives for the purchase of equipment to facilitate the *Wind Resource Assessment Programme (WRAP)* through which a preliminary wind assessment will be conducted along the East Coast, the South East Coast, the South Western peninsula and in the Central area. The equipment will measure a minimum of two [2] sites simultaneously. As per industry standard, a minimum of one [1] year of data is required per site. The equipment will be relocated to other sites after the first year of data collection.

Additionally, the *Energy Conservation and Efficiency Programme* for 21 Government Ministries, which encourages best practice use in energy conservation and the development of alternative energy sources will continue in fiscal 2022 with an allocation of \$1.0 million.

The Tobago House of Assembly (THA) will continue to collaborate with the T&TEC in fiscal 2022 to implement its *Street Lighting Programme* and *Rural Electrification Programme*, with a combined allocation of \$1.0 million.

Programmes/ Projects	Objectives	Ministry/Department /Agency	Projected Expenditure		
			TT\$ Mn 2022	TT\$ Mn 2023	TT\$Mn 2024
<b>VISION 2030 DEVELOPMENT THEME I :</b>					
<b>PUTTING PEOPLE FIRST: NURTURING OUR GREATEST ASSET</b>					
Community Water Programme	To provide a water supply to rural communities to bring relief to the unserved or underserved areas	Ministry of Public Utilities	11.000	1.000	1.000
National Street Lighting Programme	To provide well-lit communities and roadways thereby contributing to a greater sense of security.	Ministry of Public Utilities	2.000	1.000	1.000
<b>VISION 2030 DEVELOPMENT THEME III :</b>					
<b>IMPROVING PRODUCTIVITY THROUGH QUALITY INFRASTRUCTURE AND TRANSPORTATION</b>					
Avocat Water Supply	To provide Government's initiative for reducing nonrevenue water, as it would reduce leakage on the distribution main, serving the Fyzabad and Oropouche Communities.	Ministry of Public Utilities	1.000	2.000	2.000
De-silting and Rehabilitation of	To implement a phased 10-year programme to secure water resources; a	Ministry of Public Utilities	9.000	5.000	0.000

Programmes/ Projects	Objectives	Ministry/Department /Agency	Projected Expenditure		
			TT\$ Mn 2022	TT\$ Mn 2023	TT\$Mn 2024
Hillsborough Dam in Tobago	project which is aligned with the R2R strategy.				
Well Development Programme	To implement a phased 10-year programme to secure water resources; a project which is aligned with the R2R strategy.	Ministry of Public Utilities	3.576	0.000	0.000
Non-Revenue Water Reduction Programme	To replace high leakage mains and procure the related equipment. This is also a phased 10-year programme to secure water resources; a project which is aligned with the R2R strategy.	Ministry of Public Utilities	4.486	0.000	0.000
Development of New Water Sources	To increase the level of water production and storage capacity in Maraval and environs.	Ministry of Public Utilities	1.000	0.000	0.000
Moruga Well Development	To implement a phased 10-year programme to secure water resources; a	Ministry of Public Utilities	1.249	1.000	0.000

Programmes/ Projects	Objectives	Ministry/Department /Agency	Projected Expenditure		
			TT\$ Mn 2022	TT\$ Mn 2023	TT\$Mn 2024
	project which is aligned with the R2R strategy				
Wastewater Projects Trinidad and Tobago	To facilitate smart growth through spatial and infrastructure development, as outlined in the R2R strategy of waste and wastewater management; by expanding the expansion of wastewater programmes.	Ministry of Public Utilities	4.675	0.000	0.000
National Water Sector Transformation Programme (NWSTP)	To strengthen the sector's regulatory and institutional environments, a phased 10-year programme to secure water resources, a project which is aligned with the R2R strategy.  The components are Water Stabilization and Improvement, Water Sector Transformation and Network Optimisation.	Ministry of Public Utilities	25.000	122.50 0	122.50 0

Programmes/ Projects	Objectives	Ministry/Department /Agency	Projected Expenditure		
			TT\$ Mn 2022	TT\$ Mn 2023	TT\$Mn 2024
<b>VISION 2030 DEVELOPMENT THEME V: PLACING THE ENVIRONMENT AT THE CENTRE OF SOCIAL AND ECONOMIC DEVELOPMENT</b>					
Renewable Energy Initiatives	To source a standardized Wind Resource Assessment Project (WRAP) to ascertain the potential of Wind Energy for power generation. This is in keeping with T&T's commitment to the Paris Agreement to reduce GHGs in the power generation sector.	Ministry of Public Utilities	0.818	0.100	0.028
Energy Conservation and Efficiency Programme for twenty-one (21) Government Ministries	To encourage best practice use in energy conservation and the development of alternative energy sources.	Ministry of Public Utilities	1.000	1.000	1.000

## Noteworthy Development Programme Estimates in 2019-2022

The table below lists the projects that have been noted due to unusual variances in estimates for funding: <sup>25</sup>

<b>Sub-head /Item/Sub- item/Group /Project Desc.</b>	<b>Project</b>	<b>2019 Actual</b>	<b>2020 Actual</b>	<b>2021 Revised Estimate</b>	<b>2022 Estimate</b>
<b>CF 003-05- A583</b>	Development of Disaster Preparedness Capabilities in T&TEC- Phase II	\$1,043,162	\$2,839,200	\$2,000,000	\$4,962,000
<b>CF 005-06- A061</b>	Community Water Improvement Programme	\$3,967,141	\$3,967,141	-	\$11,000,000
<b>003-16-G006 IDF</b>	Water Supply to Labidco and Union Industrial Estate	\$16,426,015	\$2,847,745	\$270,000	-

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<sup>25</sup>Draft Estimates of Development Programme 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>

## Status of New Projects from the Financial Year 2016-2017

For the financial year 2017, the following new projects were scheduled for implementation under the Ministry of Public Utilities, and as such require further inquiry on the progress of completion<sup>26</sup>:

<b>Project -Item</b>	<b>2017 Actual</b>	<b>2018 Actual</b>	<b>2019 Actual</b>	<b>2020 Actual</b>	<b>2021 Revised Estimate</b>	<b>2022 Estimates</b>
<b>CF-003-05-A594</b> Test Equipment for High Voltage Apparatus and Protection Scheme	-	\$500,000	-	\$974,491	-	-
<b>CF-003-05-A596</b> Replacement of Aging Transmission Infrastructure	-	\$2,000,000	\$13,759,018	-	\$9,600,000	\$5,000,000
<b>CF-003-05-A597</b> Expansion of Generating Capacity in Tobago	\$40,000,000	\$94,000,000	-	-	-	Removed
<b>CF-003-16-A014</b> Design and Construction of Quare Service Reservoir	\$500,000	\$947,000	-	\$978,920	-	-
<b>CF-003-16-A016</b> Design and Construction of Four Roads Service Reservoir	\$1,400,000	\$1,500,000	\$776,000	-	-	Removed

<sup>26</sup> Draft Estimates of Development Programme 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>



<b>CF-003-16-A018</b> Construction of Calvary hill Booster Station	-	-	\$1,100,000	\$1,395,422	-	-
<b>CF-003-16-C001</b> Upgrade of Distribution System Tobago	\$2,000,000	\$1,849,991	\$2,699,999	-	-	Removed
<b>IDF-003-16-G002</b> Construction of Sewer mains - Morne Coco Road, Diego Martin	-	-	-	\$244,486	-	-
<b>IDF-003-16-I010</b> Tobago Well Development	-	-	\$1,000,000	\$3,101,077	\$1,972,000	-

## Status of New Projects from the Financial Year 2017- 2018

For the financial year 2018, the following new projects were scheduled for implementation under the Ministry of Public Utilities, and as such require further inquiry on the progress of completion<sup>27</sup>:

Description	Project/Programme	2018 Actual	2019 Actual	2020 Actual	2021 Revised Estimates	2022 Estimates
<b>IDF005-17-G006</b>	Establishment of an Engineered Sanitary Municipal Solid Waste (MSW) Landfill, Forres Park	\$391,113	-	\$857,251	\$486,000	\$2,500,000
<b>CF005-17-G005</b>	Fleet Modernization Programme Phase II	\$3,000,000	-	-	-	Removed
<b>CF005-17-G007</b>	Establishment of a Waste Recycling Management Authority	\$507,552	-	-	-	Removed
<b>CF005-17-G009</b>	Upgrade of Information Technology Systems and Infrastructure	\$2,000,000	-	-	-	Removed

<sup>27</sup> Draft Estimates of Development Programme 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>

## Status of New Projects from the Financial Year 2018-2019

For the financial year 2019, the following new projects were scheduled for implementation under the Ministry of Public Utilities, and as such require further inquiry on the progress of completion<sup>28</sup>:

Description	Project/Programme	2019 Actual	2020 Actual	2021 Revised Estimates	2022 Estimates
CF003-16-A022	Well Development Programme	\$18,892,550	-	\$378,400	\$3,576,000
CF003-16-C003	Pipeline Relocation for Ministry of Works and Transport Bridge Reconstruction Programme	\$2,292,918	\$274,464	-	-
CF003-16-F007	Non-Revenue Water Reduction Programme	\$8,200,000	\$787,605	-	\$4,486,000
CF005-06-A057	Upgrade of Network Switching Infrastructure	\$623,151	-	-	Removed

<sup>28</sup> Draft Estimates of Development Programme 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>

<b>Description</b>	<b>Project/Programme</b>	<b>2019 Actual</b>	<b>2020 Actual</b>	<b>2021 Revised Estimates</b>	<b>2022 Estimates</b>
<b>IDF 003-16-B005</b>	Integrated Water Improvement Programme - North West Trinidad	-	\$2,073,636	\$9,600,000	\$1,196,000
<b>IDF 003-16-F008</b>	Development of New Water Sources Phase 1 Maraval and the Environs	-	-	-	\$1,000,000
<b>IDF 003-16-I013</b>	Moruga Well Development	\$464,991	\$916,828	\$536,000	\$1,249,000

## Status of New Projects from the Financial Year 2019-2020

For the financial year 2020, the following new projects were scheduled for implementation under the Ministry of Public Utilities, and as such require further inquiry on the progress of completion <sup>29</sup>:

Sub-head /Item /Sub-item/Group /Project Desc.	Project - Item	2020 Actual	2021 Revised Estimate	2022 Estimates
CF 003-05-A590	Illumination of grounds of Police Stations	\$400,000	-	Removed
CF 003-05-A599	Special Skills Training for Energy Conversation	\$5,000,000	-	Removed
CF 003-15-C005	Refurbishment and Construction	-	\$185,500	\$2,200,000
CF 003-16-B006	Special Skills Training for Water Conversation	-	-	Removed
CF 003-16-I008	Calvary Tank and Transmission Pipeline	-	\$21,300	-
CF 005-06-A055	Adopt and Implement Integrated Water Resources Resource Management	-	-	\$500,000

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<sup>29</sup> Draft Estimates of Development Programme 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>

<b>Sub-head/Item /Sub-item/Group /Project Desc.</b>	<b>Project - Item</b>	<b>2020 Actual</b>	<b>2021 Revised Estimate</b>	<b>2022 Estimates</b>
<b>CF 005-06-A063</b>	Energy Conservation and Efficiency Programme for twenty-one(21) Government Ministries	-	-	\$1,000,000
<b>CF 005-06-H006</b>	Procurement of a Geostationary Operational Environment Satellite (GOES-16) Receiving System	-	-	Removed
<b>CF 005-17-G013</b>	Upgrade of Recovery and Recycling Facilities, Plant and Equipment	\$4,933,291	\$1,360,000	\$4,100,000
<b>IDF 003-16-F010</b>	Refurbishment Works at Caroni Water Treatment Plant	-	-	-

## Status of New Projects from the Financial Year 2020-2021

For the financial year 2021, the following new projects were scheduled for implementation under the Ministry of Public Utilities, and as such require further inquiry on the progress of completion <sup>30</sup>:

<b>Sub-head /Item /Sub-item /Group /Project Desc.</b>	<b>Project -Item</b>	<b>2021 Revised Estimate</b>	<b>2022 Estimate</b>
CF 003-05-A601	Renewable Energy Initiatives	-	\$818,000

## New Projects from the Financial Year 2021-2022

The new projects that received funding in the 2022 financial year <sup>31</sup>:

<b>Sub-head /Item /Sub-item /Group /Project Desc.</b>	<b>Project -Item</b>	<b>2022 Estimate</b>
IDF 003-16-B009	National Water Sector Transformation Programme (NWSTP)	\$25,000,000
IDF 003-16-F018	Wastewater Projects Trinidad and Tobago	\$4,675,000

<sup>30</sup> Draft Estimates of Development Programme 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>

<sup>31</sup> Draft Estimates of Development Programme 2022, accessed on October 5, 2021: <https://www.finance.gov.tt/wp-content/uploads/2021/10/Numbered-Draft-Estimates-of-Development-Programme-2022.pdf>

## Committee Inquiries Related to the Ministry Of Public Utilities

### The Fifth Report of the Joint Select Committee on Finance and Legal Affairs

#### A Critical Assessment of the Waste Management Policies and Initiatives of the State (with specific focus on Solid Waste)

<i>Report Status</i>	<i>Report Recommendations</i>	<i>Ministerial Responses</i>
<p>Report Presented: H.O.R 06.05.2019 Senate 11.04.2019</p>	<ul style="list-style-type: none"> <li>• <i>The Ministry of Public Utilities shall, no later than sixty days (60) after this report is first laid, submit a status report on the following:</i> <ul style="list-style-type: none"> <li><i>a) Drafting of appropriate legislation to support waste recycling regulations as a critical component to the waste management strategy;</i></li> <li><i>b) Establishment and staffing of a Waste Recycling Management Unit within SWMCOL to undertake some of the functions of the proposed Waste Recycling Management Authority;</i></li> <li><i>c) Establishment and implementation of a deposit-refund system for beverage containers;</i></li> <li><i>d) Establishment of the Waste Recycling Management Authority;</i></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><i>a. The Government's intent is to develop enabling legislation for each waste stream as necessary. In this regard, the Government has identified beverage containers as the first waste stream and is currently preparing Regulations to effect a deposit refund system for beverage containers.</i></li> <li><i>b. Cabinet by Minute No. 464 dated March 22, 2018 approved the establishment of a Waste Recycling Management Unit within SWMCOL to undertake some of the functions of the proposed Waste Recycling Management Authority. The Unit comprises two (2) functional areas of Policy, Planning and Strategy, and Programme and Technical Services to facilitate the Company's expanded mandate.</i></li> <li><i>c. Cabinet by Minute No. 101 dated January 17, 2019 approved the revised Beverage Containers Deposit Refund Policy for Trinidad and Tobago. Since that time, the Ministry of Public Utilities, SWMCOL and the Environmental Management Authority (EMA) have been working with the Ministry of the Attorney General and Legal Affairs, Office of the Chief Parliamentary Counsel, on the drafting of appropriate Regulations to effect the deposit refund system.</i></li> <li><i>d. Cabinet by Minute No. 518 of March 23, 2017 expanded the mandate of SWMCOL to include the functions envisioned by the proposed Waste Recycling Management Authority.</i></li> </ul>



	<ul style="list-style-type: none"> <li>e) <i>The successes and limitations observed in the implementation of the Public Sector Recycling Programme (PSRP);</i></li> <li>f) <i>The Workplace Waste Reduction and Recycling Programme (WRAP); and</i></li> <li>g) <i>Partnerships between SWMCOL and other Municipal Corporations subsequent to the pilot curbside recycling campaign partnership with the Tunapuna/ Piarco Regional Corporation</i></li> </ul>	<p><i>Subsequently, Cabinet by Minute No. 464 dated March 22, 2018 approved the establishment of a Waste Recycling Management Unit within SWMCOL to undertake some of the functions of the proposed Waste Recycling Management Authority. The Unit comprises two (2) functional areas of Policy, Planning and Strategy, and Programme and Technical Services to facilitate the Company's expanded mandate.</i></p> <ul style="list-style-type: none"> <li>e. <i>The PSRP was launched on January 30, 2018 it is intended to recover and divert recyclable wastes such as paper, cardboard, beverage containers and electronic wastes from Government Ministries which generate significantly large volumes of these categories of waste. It is anticipated that the implementation of the PSRP across all Ministries would significantly contribute to achieving the national waste diversion target of reducing the volume of recyclable waste entering the nation's landfills by 50.0 percent over a period of ten (10) years, as articulated in the Waste Recycling Policy and the National Integrated Solid Waste Management Policy.</i></li> <li>f. <i>The Workplace Waste Reduction and Recycling Programme (WRAP) is a voluntary national effort led by the Ministry of Public Utilities and SWMCOL. WRAP was launched with the 'WRAP Partner', the Central Bank of Trinidad and Tobago on May 11th, 2018. As at May 29th 2019, several companies across the banking, insurance and manufacturing sectors, the restaurant chains and academic institutions etc. have expressed an interest in becoming a WRAP Partner.</i></li> <li>g. <i>SWMCOL continues to partner with the Municipal Corporations on the curbside recycling campaign. As at May 2019, the pilot project has been successfully implemented throughout several Municipalities</i></li> </ul>
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## **General Useful Information:**

### **Regional**

- Organisation of Caribbean Utility Regulators: [www.oocur.org](http://www.oocur.org)
- Caribbean Water and Wastewater Association: [www.cwwa.net](http://www.cwwa.net)
- American Waterworks Association: [www.awwa.org](http://www.awwa.org)
- American Public Power Association (APPA): [www.appanet.org](http://www.appanet.org)
- Caribbean Electric Utility Corporation: [www.carilec.com](http://www.carilec.com)

### **International Bodies**

- Global Water Partnership: [www.gwp.org](http://www.gwp.org)
- Commonwealth Telecommunications Organisation: [www.cto.int](http://www.cto.int)