FIRST SESSION OF THE 12TH PARLIAMENT

FINANCIAL SCRUTINY UNIT

OFFICE OF THE PARLIAMENT
OF TRINIDAD & TOBAGO

HEAD 40: MINISTRY OF ENERGY & ENERGY INDUSTRIES

Total Allocation - $651,270,000
1.15% of the National Budget

A Summary of the Ministry’s Expenditure,
Divisions, Programmes and Projects
**Publication**
An electronic copy of this Guide can be found on the Parliament website: [www.ttparliament.org](http://www.ttparliament.org)

All correspondence should be addressed to:
The Secretary
Standing Finance Committee
Office of the Parliament
Parliamentary Complex
Cabildo Building
St. Vincent Street Port of Spain Republic of Trinidad and Tobago
Tel: (868) 624-7275; Fax: (868) 625-4672
Email: standingfinance@ttparliament.org
# Table of Contents

About this Guide..................................................................................................................................................3  
Head 40: Ministry of Energy and Energy Industries...............................................................................................4  
  Ministerial Overview ...........................................................................................................................................4  
Government Policy Context for the Ministry of Energy and Energy Industries.........................................................9  
Key Statements from 2019 Standing Finance Committee Debate...........................................................................12  
Auditor General Report Findings for the Fiscal year 2019 .....................................................................................13  
Public Sector Investment Programme 2020 Achievements ....................................................................................18  
The Ministry's total allocation as a percentage of the National Budget for the period 2014 to 2021 .......................20  
Where the Ministry spends its money ..................................................................................................................21  
  2021 Estimates of Expenditure ..........................................................................................................................21  
Summary of Recurrent Expenditure for the period 2014-2021 .............................................................................22  
Staff and Pay .........................................................................................................................................................27  
Analysis and Summary of Expenditure ..................................................................................................................28  
Analysis of Expenditure Unique to the Ministry of Energy and Energy Industries ....................................................29  
Public Sector Investment Programme 2021 Projections .......................................................................................31  
Noteworthy Development Programme Estimates in 2019-2021 .........................................................................33  
Status of New Projects from the Financial Year 2019 ............................................................................................34  
Status of New Projects from the Financial Year 2020 ............................................................................................35  
New Projects for the Financial Year 2021 ...............................................................................................................35  
Similar Ministries/Departments Internationally .....................................................................................................36
About this Guide

This guide provides a summary of expenditure for the Ministry of Energy and Energy Industries for the period 2014-2021. 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 Energy and Energy Industries and provide readers with an analysis of same. This guide is based primarily on:

- the Draft Estimates of Recurrent Expenditure 2021;
- the Draft Estimates of Development Programme 2021
- the Public Sector Investment Programme 2021; and
- the Auditor General’s Report on the Public Accounts of the Republic of Trinidad and Tobago for the fiscal year 2019.
Ministerial Overview

The Ministry of Energy and Energy Industries (MEEI) is responsible for the overall management of the oil, gas and minerals sectors in Trinidad and Tobago. These sectors are the largest single contributors to the GDP of the country and the revenues generated provide the resources for the future development objectives of the Government of the Republic of Trinidad and Tobago (GORTT).

The MEEI is also responsible for monitoring, controlling and regulating of the energy and mineral sectors of Trinidad and Tobago. Its early years began in 1904 when the Mines Department was established to manage Manjak production. In 1948 the Mines Department was re-designated the Petroleum Department.

In June 1962, the Ministry of Petroleum and Mines was established. Since then there has been nine name changes with corresponding changes in ministerial responsibility. As the energy sector expanded so have the roles and functions of the MEEI.

Mission Statement
To provide strategic leadership and effective regulation and management of the energy and mineral sectors to create sustainable value for Trinidad and Tobago.

Vision Statement
To be a highly responsive, client-oriented organisation to drive the sustainable development of the energy and mineral sectors.

---

Core Values

- Commitment – to create an enabling environment in the energy and mineral sectors.
- Professionalism – strengthening competencies towards creating a team with expertise.
- Integrity – operating based on the tenets of honesty and diplomacy.
- Accountability – functioning within a robust system of checks and balances.
- Transparency – bound by legislation, rules and regulations.
- Service Oriented – striving for excellence in customer service delivery.
- Equity and Equality - ensuring that all services of the MEEI are available and accessible to stakeholders.

Within this context, the following Strategic Goals and Objectives were defined to guide the operations of the organisation for the 2017–2021 period:

- Growth and Sustainability;
- Maximising Our Potential;
- Operational Efficiency;
- Governance Service Excellence; and

Functions of the Ministry of Energy and Energy Industries

The Ministry operates a range of activities including:

- Leasing and/or licensing of areas for petroleum exploration and production
- Regulation and management of all oil and gas development activities
- Regulation and management of upstream operations in oil refining activities

---

➢ Administration of domestic marketing of petroleum products, natural gas transmission/sales, petrochemical manufacture and other natural gas based industries
➢ Formulation and implementation of legal instruments for the petroleum industry
➢ Acquisition, analysis and dissemination of both local and international petroleum information
➢ Sharing responsibility with the Ministry of Finance for the collection of petroleum revenues accruing to the State
➢ Representation of the interests of Trinidad and Tobago at international petroleum fora and institutions
➢ Long term planning, development and implementation of policy initiatives in the petroleum sector.
➢ Sharing of the management of the State’s interests and assets in the oil and gas industry
➢ Sharing responsibility for the administration and management of the minerals sector.

Divisions³ & Units⁴

➢ Office of the Permanent Secretary
➢ Downstream Petroleum Management
➢ Legal
➢ Resource Management
➢ General Administration
➢ Information Technology
➢ PSC Audit

➢ Contract Management
➢ Energy Research and Planning
➢ LNG and Gas Exports
➢ Corporate Communications
➢ GIS/Draughting
➢ Internal Audit
➢ Subsidy Verification Unit

➢ Commercial Evaluation
➢ Petroleum Operations and Management
➢ Minerals
➢ Financial Service
➢ Human Resources
➢ Library

---

Ministry of Energy and Energy Industries’ Oversight

The Ministry of Energy and Energy Industries (MEEI) has a wide range of oversight over several companies as published in the Gazette on September 9th, 2020 as follows:

Responsibilities

The Ministry is responsible for the following areas:

- Energy Industries
- Hydrocarbons
- Power Generation
- Energy Policy Planning and Research
- Natural Resources
- Quarries and Mines

The following State Enterprises fall under the portfolio of Ministry of Energy and Energy Industries (MEEI):

Wholly Owned Enterprises

- Lake Asphalt of Trinidad and Tobago (1978) Limited
- Petroleum Company of Trinidad and Tobago Limited
- The National Gas Company of Trinidad and Tobago Limited

Trinidad and Tobago

- National Quarries Company Limited
- National Petroleum Marketing Company Limited
- Union Estate Electricity Generation Company Limited

Majority Owned Enterprises:

- Alutrint Limited

Minority Owned Enterprises:

- Alutech Limited

---

5 Trinidad and Tobago \ Gazette No. 158, Vol. 59 website aacessed on September 16, 2030: [http://news.gov.tt/sites/default/files/E-Gazette/Gazette%202020/Gazettes/Gazette%20No.%20158%20of%202020l.pdf](http://news.gov.tt/sites/default/files/E-Gazette/Gazette%202020/Gazettes/Gazette%20No.%20158%20of%202020l.pdf)
Indirectly Owned Enterprises:

- Atlantic 1 Holdings LLC
- Atlantic LNG 4 Holdings Limited
- EIF Exploration Trinidad B.V
- National Agro Chemical Limited
- NATPET Investments Company Limited
- NGC CNG Company Limited
- NGC E&P Investments (Barbados) Limited
- NGC E&P Netherlands Cooperatief U.A.
- NGC Petrochemicals Limited
- NGC Trinidad and Tobago LNG Limited
- Petrotrin Panama Incorporated
- South East Coast Consortium
- Total E&P Trinidad B.V.
- Trinidad and Tobago Marine Petroleum Company Limited
- Trinidad Generation Unlimited
- Trinidad Northern Areas Limited
- Atlantic 4 LNG Company of Trinidad Toabgo Unlimited
- Eastern Caribbean Gas Pipeline Company Limited
- La Brea Industrial Development Company Limited
- National Energy Corporation of Trinidad and Tobago Limited
- NATSTAR Manufacturing Company Limited
- NGC E&P (Barbados) Limited
- NGC E&P Investments Limited
- NGC NGL Company Limited
- NGC Pipeline Company Limited
- Petrotrin EAP Services Limited
- Phoenix Park Gas Processors Limited
- Teak Samaan Poui
- Trinidad and Tobago LNG Limited (formerly NGC LNG (Train 4) Limited
- Trinidad and Tobago NGL Limited
- Trinidad Nitrogen Company Limited
- TRINTOC Services Limited

Statutory Board and Other Bodies:

- The Power Generation Company of Trinidad and Tobago Limited (PowerGen)
Government Policy Context for the Ministry of Energy and Energy Industries.\textsuperscript{6}

The energy sector is one of the main drivers of the Trinidad and Tobago economy, contributing 34.9\% to real GDP and almost 39\% to the Government's revenue. The GORTT's focus is on creating partnerships and innovations that foster self-reliance and a resilient energy sector through an ethical, efficient and evolving regulatory framework. The GORTT began the process of having open, transparent and formal discussions with all major players in the Trinidad and Tobago energy sector, upstream, midstream and downstream, to achieve consensus on appropriate improvements to our oil and gas taxation regime, incentives and gas pricing regime.

The Policy Initiatives For the Energy Sector Are Geared To:

- Ensure that we have an attractive, competitive and responsible fiscal and regulatory environment, that will maximize recovery of our hydrocarbon resources and national income;
- Support and encourage local professionals and service companies to export energy services to new and emerging oil and gas producing countries, within CARICOM, in Africa, and elsewhere;
- Encourage and facilitate partnerships, investment and joint ventures with oil and gas companies and state agencies overseas, focusing in particular on Guyana and Suriname, Ghana and Tanzania;
- Utilise the National Gas Company as an investment vehicle for new energy and hydrocarbon based industries, both in Trinidad and Tobago and overseas;
- Facilitate and encourage the growth of locally owned energy sector companies through appropriate fiscal and monetary incentives and concessions;
- Maximize local content and local value added through appropriate guidelines and legislation;

 Ensure that the local private sector obtains a larger share of the activity generated by the energy sector, especially in exploration and production, in addition to more traditional areas such as fabrication, remediation, construction, design, logistics, well services, platform operations and maintenance and support services;
 Maximize efficiency in the use of natural gas in the downstream sector;
 Promote the development of new industries and innovation and foster awareness and acceptance of new technologies;
 Maximize, where practicable, the use of renewable energy (such as solar, wind and wave energy) through incentives, concessions and enabling legislation, and make reduction of Trinidad and Tobago's carbon footprint a priority by setting appropriate renewable energy production targets, as has been done in the European Union, where EW countries have been mandated to achieve a target of 20% of energy production from renewable energy sources by the year 2020;
 Work in partnership with business and labour to maximize output, while ensuring fair wages and equitable wealth distribution, appropriate economic returns and social justice;
 Continue building our reputation for integrity, transparency and respect for signed contracts and agreements;
 Create an environment in which producer companies, both existing and new, become aggressive about seeking new discoveries in oil and gas;
 Accelerate and conclude negotiation of new gas supply contracts, to replace long-term contracts that are due to expire in the next few years, in the best interest of the country and all stakeholders;
 Develop appropriate strategies to monetize the discovery of reserves of natural gas found in deep waters, which are classified as expensive gas;
 Create an appropriate fiscal regime and incentives to encourage the production of "Stranded" oil and gas, both on land and offshore;
 Ensure that the gas intensive industries, such as petrochemicals and heavy industry, remain competitive and are encouraged to expand and modernize existing operations;
➢ Develop strategies to counter the major difficulties which the LNG industry of Trinidad and Tobago (T&T) now faces, including renegotiation of arrangements for a more equitable share of the revenue for all players from the sale of LNG in our major markets in South and Central America, Europe and the Far East;

➢ Recover the projects that have been abandoned with respect to downstream industries that are still relevant, in order to provide the country with the basic building blocks for the manufacturing industry;

➢ Attract and retain first class professionals to the management and boards of state enterprises in the energy sector, while minimizing political risk and ensuring job security for these individuals;

➢ Build Trinidad and Tobago’s reputation as a preferred destination for investment in the energy sector; and

➢ Overhaul and revamp the institutional framework of the state agencies in the energy sector to ensure that they can meet the demands of the global energy environment and respond promptly, transparently and effectively to proposals from potential investors.

Minister of Energy and Energy Industries7 - Senator the Honourable Franklin Khan
Permanent Secretary (Ag) of the Ministry of Energy and Energy Industries8 - Mrs. Penelope Bradshaw-Niles

---

Key Statements from 2019 Standing Finance Committee Debate

During the Standing Finance Committee debate of 2019, the following statement was made in relation to the emphasis of the Ministry of Energy and Energy Industries for fiscal year 2019/2020:

“Mr. Chairman, the energy sector has been the mainstay of Trinidad and Tobago’s economy for decades and will continue to be in the short to medium term, in terms of its contribution to revenue, its contribution to GDP and direct foreign investment. The Minister of Energy and Energy Industries is the regulator of the industry under the Petroleum Act and Regulations. We have responsibility to optimize oil and gas production, refining capabilities and petrochemical production. In addition, we have line responsibility for power generation. The Ministry has responsibility also for the execution and supervision of exploration and production licences and production sharing contracts. And to ensure that investment levels are maintained in the industry. Together with the Ministry of Finance we ensure that the State receives optimum economic rent for what is a wasting asset. Additionally, the Ministry has responsibility for mining and quarrying. However, both in terms of the Development Programme and the Recurrent budget the Ministry of Energy and Energy Industries has a very small budget. On the Development Programme it is mere 15 million, nine from the Consolidated Fund and six from the IDF. On the Recurrent side is 649million, most of which is for subsidy payments. The capital investment as big as it is in the energy sector comes solely from the private sector, be it state private or multi-nationals. Mr. Chairman, it is also important to note that the entire operating cost of the Ministry of Energy and Energy Industries is recoverable from the petroleum impost. And with those few remarks, I thank you.”

- Minister of Energy and Energy Industries

NOTES TO THE ACCOUNTS

14. PRODUCTION SHARING CONTRACTS pg.30

Under the provisions of the Production Sharing Contracts, the Government of the Republic of Trinidad and Tobago is entitled to a share of the production of natural gas and crude oil from the operations of the contractors. The moneys received are placed in the Deposit Account Head 111/570 (Production Sharing Contract). From this share of production, the Minister of Energy and Energy Industries is responsible for meeting the respective Contractor’s tax and similar financial obligations to the Government. Total Payments made to the Board of Inland Revenue in respect of the financial year 2019 is $2,521,465,625.00. Revenue collection increased by 179% when compared to the receipts collected in the financial year 2018. Details of payments made in the financial year 2019 are shown below:-

<table>
<thead>
<tr>
<th>DATE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>31/12/2018</td>
<td>$259,987,562.00</td>
</tr>
<tr>
<td>14/05/2019</td>
<td>$439,889,230.00</td>
</tr>
<tr>
<td>08/07/2019</td>
<td>$450,087,473.00</td>
</tr>
<tr>
<td>24/07/2019</td>
<td>$303,251,143.00</td>
</tr>
<tr>
<td>26/09/2019</td>
<td>$283,475,608.00</td>
</tr>
<tr>
<td>26/09/2019</td>
<td>$574,817,968.00</td>
</tr>
<tr>
<td>26/09/2019</td>
<td>$209,956,641.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$2,521,465,625.00</td>
</tr>
</tbody>
</table>

15. PETROLEUM SUBSIDY PAID TO CONTRACTORS pg.31

In accordance with Sub-section (2) of Section 5 of the Petroleum Production Levy and Subsidy Act 1974, Chapter 62:02, the total advances made in the financial year 2019 from the Petroleum Products and Subsidy Fund, for the purpose of subsidizing the prices at which Petroleum Products are sold by persons carrying on marketing business is $55,066,294.40 The details are available for Audit scrutiny.

FOLLOW-UP REVIEW ON AUDIT OF GENERAL CONTROLS AT SELECTED MINISTRIES AND DEPARTMENTS

5.73 A follow-up review was conducted to ascertain the status of the implementation of corrective action taken to address the issues highlighted in the 2017 Auditor General’s Report. Reviews were conducted at the following ministries/departments:

- Ministry of Social Development and Family Services (MSDFS) - Biometric System
- Ministry of Energy and Energy Resources - MEER
- Regional Corporations – financial application
- Inland Revenue Division (IRD)
- Treasury Division (TD)

5.74 The results of the reviews conducted are listed in the table below:

<p>| Status of Corrective Actions to address Deficiencies in IT General Controls |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|
|                             | MEER           | MSDFS          | IRD            | TD             |                |
| 2017 Status                | Current Status | 2017 Status    | Current Status | 2017 Status    | Current Status |
| IT Strategic Plan          | WIP            | N              | X              | N              |                |
| Formal IT Steering Committee | X             | ✓              | X              | N              | ✓              | X              | X              |
| Approved ICT Policy        | ✓              | ✓              | WIP            | N              | ✓              | ✓              | ✓              | N              |
| <strong>International IT Security Standards adopted</strong> | WIP | N | WIP | N | ✓ | ✓ | X | X |
| <strong>Confidentiality agreements with IT personnel on contract</strong> | ✓ | ✓ | X | N | ✓ | ✓ | ✓ | N |
| <strong>Security roles defined in contracts or terms of employment of IT personnel</strong> | ✓ | ✓ | X | N | ✓ | ✓ | X | X |
| <strong>Process for vetting new employees or third-party service providers</strong> | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | X |
| <strong>Approved training plan for IT staff</strong> | WIP | N | X | N | ✓ | ✓ | ✓ | N |
| <strong>Formal disciplinary procedure for contracted staff</strong> | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | X |
| <strong>Succession planning</strong> | ✓ | ✓ | X | N | ✓ | ✓ | WIP | WIP |
| <strong>Staff made aware of new IT threats</strong> | ✓ | ✓ | WIP | ✓ | ✓ | ✓ | ✓ | X | X |
| <strong>Documented procedure for activating and deactivating users</strong> | ✓ | ✓ | WIP | N | ✓ | ✓ | ✓ | N |
| <strong>Staff required to report security weaknesses or threats</strong> | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | X | N |
| <strong>Formal procedure to document IT security weaknesses or threats</strong> | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ | X | N |
| <strong>Process to log and/or monitor actions in the event of security breach or software malfunction</strong> | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ | WIP | WIP |</p>
<table>
<thead>
<tr>
<th>Guidelines on the consumption of food and beverages in proximity to the information processing facilities</th>
<th>✓</th>
<th>✓</th>
<th>X</th>
<th>N</th>
<th>✓</th>
<th>✓</th>
<th>✓</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formal procedures for the secure disposal of removable storage media and IT equipment</td>
<td>✓</td>
<td>✓</td>
<td>X</td>
<td>N</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>WIP</td>
</tr>
<tr>
<td>Clean desk and clear screen policy</td>
<td>✓</td>
<td>✓</td>
<td>X</td>
<td>N</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Policy or guidelines to ensure compliance with the Computer Misuse Act, Electronic Transactions Act and Data Protection Act</td>
<td>WIP</td>
<td>✓</td>
<td>X</td>
<td>WIP</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>N</td>
</tr>
<tr>
<td>Directives to ensure compliance with software copyrights</td>
<td>WIP</td>
<td>✓</td>
<td>WIP</td>
<td>N</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>WIP</td>
</tr>
<tr>
<td>Audit of information systems included in Internal Audit mandate and work plans</td>
<td>X</td>
<td>N</td>
<td>X</td>
<td>N</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>WIP</td>
</tr>
<tr>
<td>Internal Audit staff possess certification, training or experience in IT Auditing or the use of CAATs</td>
<td>X</td>
<td>N</td>
<td>X</td>
<td>N</td>
<td>X</td>
<td>N</td>
<td>WIP</td>
<td>WIP</td>
</tr>
<tr>
<td>Internal Audit access to IT systems</td>
<td>X</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>WIP</td>
<td>✓</td>
<td>WIP</td>
<td>WIP</td>
</tr>
<tr>
<td>Business Continuity Plan</td>
<td>WIP</td>
<td>N</td>
<td>WIP</td>
<td>N</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>N</td>
</tr>
<tr>
<td>Business Impact Analysis (BIA)</td>
<td>X</td>
<td>N</td>
<td>X</td>
<td>N</td>
<td>X</td>
<td>✓</td>
<td>✓</td>
<td>N</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>IT assets ranked based on their criticality</td>
<td>X</td>
<td>N</td>
<td>X</td>
<td>N</td>
<td>WIP</td>
<td>WIP</td>
<td>✓</td>
<td>N</td>
</tr>
<tr>
<td>Evidence of backup testing</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>WIP</td>
</tr>
<tr>
<td>Approved Backup Policy</td>
<td>✓</td>
<td>✓</td>
<td>WIP</td>
<td>N</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>WIP</td>
</tr>
<tr>
<td>Offsite backup in a different geographic location</td>
<td>X</td>
<td>N</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>WIP</td>
</tr>
</tbody>
</table>

**Key:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Deficiency identified</td>
</tr>
<tr>
<td>N</td>
<td>No change</td>
</tr>
<tr>
<td>WIP</td>
<td>Work in Progress</td>
</tr>
<tr>
<td>✓</td>
<td>Corrective Action taken</td>
</tr>
</tbody>
</table>

**General - $41,011,999.69 pg. 130**

These investments comprised fixed deposits held at the Central Bank of Trinidad and Tobago and funds in money market accounts at a financial institution. The investments were held on behalf of the undermentioned:

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrator General</td>
<td>$682,904.42</td>
<td>$682,904.42</td>
</tr>
<tr>
<td>Pool Betting Deposits</td>
<td>$750,000.00</td>
<td>$750,000.00</td>
</tr>
<tr>
<td>Ministry of Energy and Energy Affairs - Mora Oil Ventures Limited</td>
<td>$11,079,095.27</td>
<td>$10,971,565.71</td>
</tr>
<tr>
<td>Members Club</td>
<td>$28,500,000.00</td>
<td>$31,000,000.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$41,011,999.69</strong></td>
<td><strong>$43,404,470.13</strong></td>
</tr>
</tbody>
</table>
Public Sector Investment Programme 2020 Achievements

Energy/Renewable Energy Alternatives

The Ministry of Energy and Energy Industries (MEEI) is responsible for the management of the energy sector of Trinidad and Tobago and for the promotion of renewable and energy initiatives. An overall allocation of $4.3 million was provided to the MEEI in fiscal 2020, of which $3.3 million was allocated under the Consolidated Fund and $1 million under the Infrastructure Development Fund (IDF).

Renewable Energy and Energy Efficiency Initiatives (RE&EE)

The sum of $0.5 million was allocated for development of the renewable energy and energy efficiency initiatives by the MEEI as follows:

- Installation of two (2) Electric Vehicle (EV) Chargers and the Purchase of One (1) Electric Vehicle for the MEEI – delays have been experienced with respect to the procurement of the EV charging stations and the electric vehicle;
- Renewable Energy and Energy Efficiency Public Awareness Campaign - the roll out of the campaign was delayed due to the COVID-19 pandemic. The strategy for the rollout of the campaign has been revised to minimise physical contact among the relevant stakeholders. A social media survey on renewable energy and energy initiatives was launched in August 2020; and
- Waste to Energy (WtE) Facility at the Beetham Landfill - internal discussions were held among officials at the MEEI to determine a way forward for the implementation of the project.

Synthetic Aperture Radar System

The sum of $2 million was allocated for the installation of two (2) Synthetic Aperture Radar Systems at Chaguaramas and Port of Spain for the detection and monitoring of oil spills in the Gulf of Paria. The tendering process for the supply and installation of the Radar System at Chaguaramas was 70 percent completed. A site visit was conducted by officials of the MEEI to Tower C on Wrightson Road,
Port of Spain to determine the suitability of that location for the installation of the second Synthetic Aperture Radar System and was deemed suitable for the installation of the radar.

**Acquisition of Equipment for the National Quarries**

The sum of $0.8 million was expended in fiscal 2020 for the payment of outstanding Value Added Tax (VAT) for the acquisition of a rock drill and a stone crusher by the National Quarries Company Limited (NQCL). The rock drill and the stone crusher were delivered to the NQCL in December 2019 and April 2020 respectively.

**Dredging of the Sea Lots Main Channel and Turning Basin**

Over the years, Sea Lots Main Channel and Turning Basin has become heavily silted which poses a challenge for vessels to navigate as its depth is below the minimum requirement of seven (7) metres which is required for safe navigation. Hence, there was a need to dredge the Channel to meet the required depth for the safe navigation of vessels. The Toxicity Characteristic Leaching Procedure (TCLP) and the Bathymetric Survey were completed. The contract is under review and the work is being revised. The sum of $1 million was allocated to this project.
The Ministry’s total allocation as a percentage of the National Budget for the period 2014 to 2021

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Allocation</th>
<th>National Budget</th>
<th>Percentage of National Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>$7,124,714,682.00</td>
<td>$65,020,886,424.00</td>
<td>10.96%</td>
</tr>
<tr>
<td>2015</td>
<td>$4,729,126,586.00</td>
<td>$61,966,922,675.00</td>
<td>7.63%</td>
</tr>
<tr>
<td>2016</td>
<td>$1,008,809,409.00</td>
<td>$56,573,913,053.00</td>
<td>1.78%</td>
</tr>
<tr>
<td>2017</td>
<td>$467,776,331.00</td>
<td>$54,883,153,410.00</td>
<td>0.85%</td>
</tr>
<tr>
<td>2018</td>
<td>$87,100,243.00</td>
<td>$54,211,726,813.00</td>
<td>0.16%</td>
</tr>
<tr>
<td>2019</td>
<td>$336,255,939.00</td>
<td>$54,581,467,181.00</td>
<td>0.62%</td>
</tr>
<tr>
<td>2020</td>
<td>$605,377,222.00</td>
<td>$57,252,443,354.00</td>
<td>1.06%</td>
</tr>
<tr>
<td>2021</td>
<td>$643,270,000.00</td>
<td>$56,788,359,151.00</td>
<td>1.13%</td>
</tr>
</tbody>
</table>

- Total allocation for the Ministry as a percentage of the National Budget illustrated an increase in the allocation to the Ministry of Energy and Energy Industries by 0.07% between the period 2019/2020 and 2020/2021.

12 For the Financial Years 2014-2019, actual figures were used to calculate total allocation. However, estimates were used to calculate the total allocation for the Fiscal Years 2019 and 2021.
13 Total Allocation for the Ministry of Energy and Energy Industries = Recurrent Expenditure + Consolidated Fund Expenditure
14 The National Budget = Recurrent Expenditure + Development Programme Expenditure Consolidated
Where the Ministry spends its money

2021 Estimates of Expenditure

The budget allocation of $651,270,000 for the Ministry of Energy and Energy Industries is comprised of:

- The Draft Estimates of Recurrent Expenditure\(^{15}\) in the sum of $642,000,000;
- The Draft Estimates of Development Programme\(^{16}\) in the sum of $9,270,000
  - Consolidated Fund in the sum of $1,270,000; and
  - Infrastructure Development Fund\(^{17}\) of the sum $8,000,000.

The Estimates of Recurrent Expenditure include:

- 01 Personnel Expenditure - $32,728,670;
- 02 Goods and Services - $73,552,930;
- 03 Minor Equipment Purchases $1,683,500; and
- 04 Current Transfers and Subsidies $534,034,900

The Ministry of Energy and Energy Industries’:

- Total allocation as a percentage of National Budget = 1.15%;
- Recurrent Expenditure as a percentage of the total Recurrent Expenditure budget is 1.18%
- Consolidated Fund allocation as a percentage of the total Consolidated Fund allocation is 0.06%; and
- Infrastructure Development Fund allocation as a percentage of the total Infrastructure Development Fund is 0.42%.

---


\(^{17}\) 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 budget allocation for the Ministry of Energy and Energy Industries does not include the IDF funding.)
# Summary of Recurrent Expenditure for the period 2014-2021

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Personnel Expenditure</td>
<td>$26 205 849,00</td>
<td>$43 036 899,00</td>
<td>$27 882 287,00</td>
<td>$30 215 531,00</td>
<td>$27 518 306,00</td>
<td>$27 840 748,00</td>
<td>$31 260 470,00</td>
<td>$32 728 670,00</td>
</tr>
<tr>
<td>02 Goods and Services</td>
<td>$78 547 051,00</td>
<td>$79 070 546,00</td>
<td>$57 021 246,00</td>
<td>$51 212 704,00</td>
<td>$48 347 639,00</td>
<td>$52 052 147,00</td>
<td>$66 071 908,00</td>
<td>$73 552 930,00</td>
</tr>
<tr>
<td>03 Minor Equipment Purchases</td>
<td>$589 644,00</td>
<td>$100 363,00</td>
<td>$360 414,00</td>
<td>$161 870,00</td>
<td>$442 757,00</td>
<td>$49 072,00</td>
<td>$350 000,00</td>
<td>$1 683 500,00</td>
</tr>
<tr>
<td>04 Current Transfers and Subsidies</td>
<td>$7 009 775 566,0</td>
<td>$4 590 710 510,0</td>
<td>$920 769 673,00</td>
<td>$385 016 549,00</td>
<td>$9 107 315,00</td>
<td>$240 427 782,00</td>
<td>$504 394 844,00</td>
<td>$534 034 900,00</td>
</tr>
</tbody>
</table>
The allocation of staff expenditure for the fiscal year 2021 was $55,039,280 which represents an increase of approximately 0.04% from the fiscal year 2020 expenditure of $53,025,578. The following chart provides a breakdown of all expenditure related to staff from 2019-2021.

### Summary of the Ministry of Energy and Energy Industries Staff and Pay Allocations from 2019 - 2021

<table>
<thead>
<tr>
<th></th>
<th>Personnel Expenditure</th>
<th>Travelling and Subsistence</th>
<th>Uniforms</th>
<th>Contract Employment</th>
<th>Training</th>
<th>Short-Term Employment</th>
<th>Employees Assistance Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2019 Actual</strong></td>
<td>27,840,748</td>
<td>3,136,962</td>
<td>18,626</td>
<td>14,870,733</td>
<td>229,699</td>
<td>-</td>
<td>4,500</td>
</tr>
<tr>
<td><strong>2020 Revised Estimate</strong></td>
<td>31,260,470</td>
<td>3,500,000</td>
<td>91,708</td>
<td>17,663,400</td>
<td>150,000</td>
<td>350,000</td>
<td>10,000</td>
</tr>
<tr>
<td><strong>2021 Estimate</strong></td>
<td>32,728,670</td>
<td>3,500,000</td>
<td>110,610</td>
<td>18,000,000</td>
<td>200,000</td>
<td>400,000</td>
<td>100,000</td>
</tr>
</tbody>
</table>

---

Analysis and Summary of Expenditure

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 2020 is $642,000,000

- Recurrent Expenditure (Revised) for Fiscal Year 2020 was $602,077,222. Comparing this figure with Fiscal Year 2021, there is an increase of $39,922,778 or 6.6%.

- The largest portion of the allocation has gone to Sub Head 04 Current Transfers and Subsidies for each year between 2014 and 2020 except for 2018. This figure has been fluctuating over the period 2014-2021, accounting for approximately 83% of total funding for the Ministry for fiscal year 2020.

- Sub Head 03 Minor Equipment Purchases received the lowest portion of the total allocation for the Ministry over the period 2014 to 2021 overall. The Sub-Head received approximately 1% of the Ministry’s total funding for fiscal year 2021.

- Sub Head 02 Goods and Services received the second largest portion of the allocation and has been fluctuating over the period 2014-2021. The Sub-Head received approximately 11% of the Ministry’s total funding for fiscal year 2021.

- Sub Head 01 Personnel Expenditure received the second lowest portion of the allocation and has been fluctuating over the period 2014-2021. The Sub-Head received approximately 5% of the Ministry’s total funding for fiscal year 2021.

- The actual/estimated expenditure for the Recurrent Expenditure over the seven (7) year period, had been at a high of $7,115,118,110 in 2014 to a low of $85,416,017 in 2018.
Analysis of Expenditure Unique to the Ministry of Energy and Energy Industries

Unique Expenditure refers to expenditure items incurred by the Ministry of Energy and Energy Industries that may not feature in other ministries or departments.

Transfers to Regional and International Bodies

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T&amp;T Annual Subscription to the Committee of the World Power Conference</td>
<td>-</td>
<td>-</td>
<td>83 844</td>
<td>84 339</td>
<td>141 229</td>
<td>136 470</td>
<td>161 000</td>
<td>200 000</td>
</tr>
<tr>
<td>Commission of the Geological Map of the World</td>
<td>-</td>
<td>2 266</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2 500</td>
<td>2 500</td>
</tr>
<tr>
<td>Annual Subvention to Gas Exporting Countries Forum (GECF)</td>
<td>4 518 054</td>
<td>4 457 530</td>
<td>4 373 774</td>
<td>4 437 511</td>
<td>4 054 320</td>
<td>4 758 180</td>
<td>5 100 000</td>
<td>5 100 000</td>
</tr>
<tr>
<td>Contribution to the Latin American Energy Organisation (OLADE)</td>
<td>265 617</td>
<td>201 872</td>
<td>210 331</td>
<td>214 796</td>
<td>214 951</td>
<td>216 224</td>
<td>266 000</td>
<td>300 000</td>
</tr>
<tr>
<td>World Petroleum Council</td>
<td>-</td>
<td>24 727</td>
<td>22 899</td>
<td>22 468</td>
<td>24 332</td>
<td>22 929</td>
<td>35 000</td>
<td>35 000</td>
</tr>
<tr>
<td>International Renewable Energy Agency (IRENA)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>172 345</td>
<td>182 338</td>
<td>140 000</td>
<td>110 000</td>
</tr>
</tbody>
</table>

Summary of Development Programme Expenditure for the period 2015-2021

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 of $9,270,000 for development programmes and projects for fiscal year 2021 are presented in two parts as follows:

- Funds appropriated by Parliament and disbursed directly from the Consolidated Fund total $1,270,000 or 13.7% and
- Funds disbursed from the Infrastructure Development Fund total $8,000,000 or 86.3%.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-sectoral and other services- Consolidated Fund</td>
<td>16,208,268</td>
<td>2,775,789</td>
<td>1,169,677</td>
<td>1,684,226</td>
<td>15,886,190</td>
<td>3,300,000</td>
<td>1,270,000</td>
</tr>
<tr>
<td>Economic Infrastructure- Infrastructure Development Fund</td>
<td>48,103,189</td>
<td>19,157,107</td>
<td>16,636,959</td>
<td>18,588,150</td>
<td>11,837,614</td>
<td>1,000,000</td>
<td>8,000,000</td>
</tr>
</tbody>
</table>

---

Energy/Renewable Energy Alternatives

The Government will continue to facilitate energy efficiency by developing an Integrated Resource Plan to manage the phased implementation of renewable energy, with a target of renewable energy meeting 30 percent of demand by 2030. Through the Ministry of Energy and Energy Industries (MEEI), the Government continues its promotion of renewable energy and energy initiatives to ensure the sustainability of the energy sector. An allocation of $9.3 million will be provided for activities in fiscal 2021 which will include:

Renewable Energy and Energy Efficiency Initiatives

This project is aligned to Government’s goal to improve energy efficiency through a reduction in the nation’s carbon footprint, greenhouse gas emissions and environmental waste. Citizens will benefit from fuel cost savings, a healthier environment and greater appreciation and sensitisation around the use of renewable energy.

In fiscal 2021, the following energy initiatives will be undertaken under this sector:

• continuation of the public awareness campaign on renewable energy to sensitisce communities about topics such as energy efficiency, the use of renewable energy, climate change, sustainable energy, resilience, waste management and waste to energy through various communication mechanisms;
• continuation of the development of a waste to energy facility at the Beetham landfill which will result in a reduction of waste and carbon emissions;
• conduct of a wind resource assessment which will contribute to the reduction of the nation’s carbon footprint; and
• implementation of a solar traffic light project which will contribute to fuel cost savings for Trinidad and Tobago as well as a reduction in greenhouse gas emissions.

Acquisition of Synthetic Aperture Radar (SAR) System
These SAR systems located at Port of Spain and Chaguaramas will be used for the early detection of oil spills in the Gulf of Paria. In addition, in fiscal 2021, the maintenance of both radar systems will be undertaken.

Dredging of the Sea Lots Main Channel and Turning Basin
The Sea Lots Main Channel and Turning Basin must be dredged to return it to the required minimum depth for safe navigation. The sum of $3.0 million will be allocated in fiscal 2021 to conduct a new bathymetric survey and undertake the removal of 820,000 cubic metres of spoil to achieve the desired post-dredge depth of 7 metres below Chart Datum.

Installation of a Floating Jetty and Four (4) Subsea Pipelines at NP’s Fuel Receiving Terminal, Crown Point Tobago
This is a new project that was proposed by MEEI for fiscal 2021 which is in line with Government’s initiative to explore opportunities for access to and sharing of common gas transportation and processing infrastructure which may be underutilized, in order to optimize costs. A sum of $2.0 Million will be allocated in fiscal 2021 for this project.

New to Industry Gas Station at Sangre Grande.
This is a new project that was proposed by MEEI for fiscal 2021 which is in line with Government’s initiative to accelerate the CNG conversion programme. A sum of $3 million will be allocated in fiscal 2021 for this project.
# Noteworthy Development Programme Estimates in 2019-2021

The table below lists the projects that have been noted due to uncharacteristic variances in estimates for funding:

<table>
<thead>
<tr>
<th>Sub-Item Head Description</th>
<th>Project</th>
<th>2019 Actual</th>
<th>2020 Revised Estimate</th>
<th>2021 Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF 005-06-A003</td>
<td>Renewable Energy and Energy Efficiency Initiatives(^{23})</td>
<td>$5,922,266</td>
<td>$500,000</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>IDF 003-05-D005</td>
<td>Development of New Port Facilities</td>
<td>$11,837,614</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>IDF 003-05-D011</td>
<td>Dredging of Sea-Lots Main Channel and Turning Basin</td>
<td>-</td>
<td>$1,000,000</td>
<td>$3,000,000</td>
</tr>
</tbody>
</table>


\(^{23}\) During fiscal year 2020, this allocation was intended to finance three initiatives namely a Renewable Energy Public Awareness Campaign; Installation of Electric Vehicle (EV) Chargers and the purchase of two (2) EVs for the MEEI's fleet and of a Solar LED lighting programme for the nation’s basketball courts and children’s play parks.
Status of New Projects from the Financial Year 2019

For the financial year 2019, the following new projects were scheduled for implementation under the Ministry of Energy and Energy Industries, and as such require further inquiry on the progress of completion:

<table>
<thead>
<tr>
<th>Sub-Head Description</th>
<th>Project -Item</th>
<th>2019 Actual</th>
<th>2020 Revised Estimate</th>
<th>2021 Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>005-06-G001</td>
<td>Acquisition of Synthetic Aperture Radar (SAR)(^{25}) for the Detection of Oil Spills</td>
<td>$1,999,999</td>
<td>$2,000,000</td>
<td>$270,000</td>
</tr>
<tr>
<td>CF 005-06-G002</td>
<td>Acquisition of Equipment for National Quarries Co. Ltd(^{26})</td>
<td>$7,963,925</td>
<td>$800,000</td>
<td>-</td>
</tr>
</tbody>
</table>


\(^{25}\) Synthetic Aperture Radars (SARs) are advanced forms of side-looking imaging radar. A radar is essentially a ranging or distance measuring device. It consists fundamentally of a transmitter, a receiver, an antenna, and an electronics system to process and record the data. The same antenna is often used for transmission and reception. By measuring the time delay between the transmission of a pulse and the reception of the backscattered "echo" from different targets, their distance from the radar and thus their location can be determined. SARs are well suited to surveillance and disaster managements for:

- **Maritime surveillance**: ice detection, oil and ship detection
- **Maritime safety**: ocean wind speed, atmospheric fronts, waves, currents, eddies, internal waves
- **Geology**: accurate measurements of distance (interferometry), surface change, coastal erosion, measuring glacier motions, detecting effect of earthquakes

During fiscal year 2020, one SAR would be placed at Chaguaramas and a second at the Towers in Port of Spain.

\(^{26}\) The 2020 allocation was to fund the purchase of a rock drill.
Status of New Projects from the Financial Year 2020

For the financial year 2020, the following new projects were scheduled for implementation under the Ministry of Energy and Energy Industries, and as such require further inquiry on the progress of completion:

<table>
<thead>
<tr>
<th>Sub-Head Description</th>
<th>Project -Item</th>
<th>2020 Revised Estimate</th>
<th>2021 Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDF 003-05D012</td>
<td>Relocation of Aviation Fuel Facility at ANRRIA Tobago</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

New Projects for the Financial Year 2021

The following new projects that received funding in the 2021 financial year:

<table>
<thead>
<tr>
<th>Sub-Head Description</th>
<th>Project -Item</th>
<th>2021 Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDF 003-05-D013</td>
<td>Installation of a Floating Jetty and four Subsea Pipelines - NP’s Fuel Terminal - Crown Point, Tobago</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>IDF 003-05-D014</td>
<td>New to Industry – Construction of Gas Station at Sangre Grande</td>
<td>$3,000,000</td>
</tr>
</tbody>
</table>


Similar Ministries/Departments Internationally

- Division of Energy, Barbados: http://www.energy.gov.bb/
- World Energy Council: https://www.worldenergy.org/
- Natural Resources, Canada: https://www.nrcan.gc.ca/energy
- Department of Energy, USA: https://www.energy.gov/