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GLOSSARY

RAEC	Rural Area Electricity Company SAOC	
MIS	Main Electricity Grid of Oman	
NHC	Nama Holding Company SAOC	
APSR	Authority for Public Services Regulation	
PASEZFZ	Public Authority for Special Economic Zones & Free Zones	
OPWP	Oman Power & Water Procurement	
OETC	Oman Electricity Transmission Company	
MEDC	Muscat Electricity Distribution Company	
MJEC	Majan Electricity Company	
MZEC	Mazoon Electricity Company	
DISC	Dhofar Integrated Services Company	
PAW	Public Authority of Water	
PDO	Petroleum Development of Oman	
RUD	Regulated Unit Distribution	
OMANIZATION	The policy for the employment of Omani nationals as issued from time to time by the government of Oman	
OMR	Omani Rial	
DG	Diesel Generation	
DIAM	The Public Authority for Water	

ABOUT THE COMPANY

Rural Areas Electricity Company (Tanweer) was established according to the promulgation of the Sector Law 78 / 2004 to serve remote areas that could not be economically connected to the main electricity grid of Oman (MIS). Tanweer is a wholly-owned subsidiary of the Nama Holding Company SAOC (NHC) which owns 100% of the shares. In turn, NHC is 100% owned by the Government of the Sultanate of Oman. Tanweer's license, issued by the Authority for Public services Regulation (APSR) covers its authorized areas which include the Governorates of Musandam, Al-Wusta, Al-Dakhliyah and Dhofar excluding the licensed area of Dhofar Intergrated Services Company covering mainly Salalah city as well as the license issued by the Authority for Special Economic Zones and Free Zones (SEZAD) covering the authorized area in Al-Dugm.

Entrance المدخل الرئيسي

MISSION

VISION VALUE







VISION

Going Greener by Achieving 20% of the Capacity from Renewable Sources by 2025.

MISSION

Enabling Development of the Service Areas by Providing Sustainable Electricity and Water in a Safe, Reliable & Efficient

VALUES

"Together Towards Tomorrow" 9

Teamwork | Integrity Respect | Quality Customer Focus Professionalism.



VISION Going Greener

20% by 2025



Board Members

Tanweer Board Members





Eng. Ahmed Said Al Harthy Chief Executive Officer - Acting (Chief Supply Officer)



Ghudayyer Rashid Said Al Waheibi Chief Operating Officer



Chairman

Ahmed Amur Nasser Al Mahrizi

Saleh Rabia Khamis Al Salmani •··· Deputy Chairman



Hamood Basheer Said Al Mangi Senior Human Resource Manager



Salim Abdullah Al Humaidi Corporate Services Senior Manager



Member

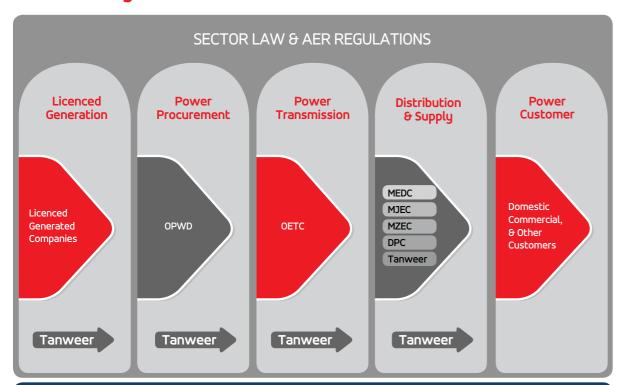


Hilal Said Al Hadi Senior Manager of Business & Asset Planning - Acting



Salman Tarique Commercial Affairs Senior Manager

Tanweer Regulation & Licenses



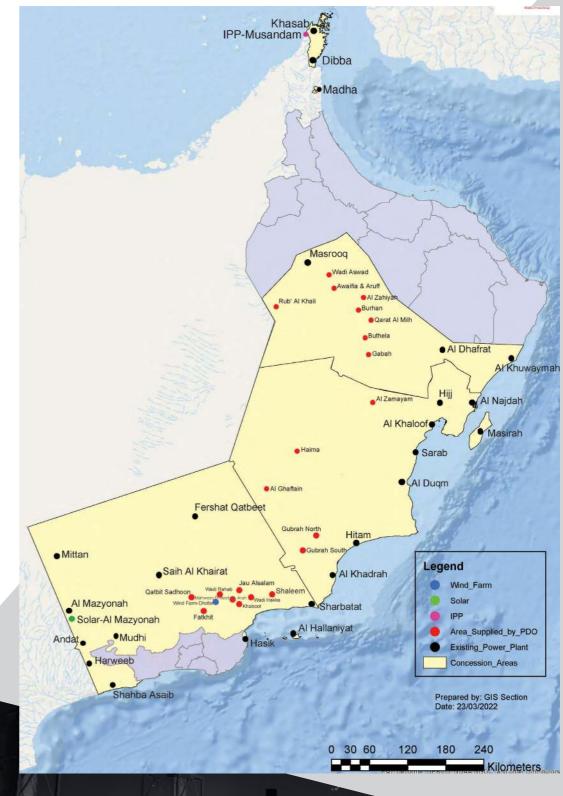
Tanweer

Water Desalination

Coverage Area

Since 2005 Tanweer has undertaken major programs of electrification in the Governorates of Musandam, Dhofar, and Al Wusta (also including Al Dakhliyah, Al Dahirah, and Sharqiyah) which covers almost 73% of the land area of Oman. The company established 51 diesel fuel power plants by 2010 and interconnected some of these areas by 2021 to improve efficiency, reducing the power plants to 28 in number. The total installed capacity has increased to 449 MW by the end of 2021 and according to APSR directions Tanweer has transferred five of its plants to DEAM. The company operates one desalination plant in Duqm which supplies bulk desalinated water to the Public Authority of Water (PAW). Some remote areas are close to the infrastructure of PDO (Petroleum Development of Oman) and power is provided by connection of Tanweer customers to nearby PDO networks. Moreover, since the beginning of 2021, Tanweer has undertaken the National Government Strategic direction to transfer its assets in Dhofar and Musandam to regional sector companies; OETC, Majan and DISC which will lead to a reduction in the overall economic cost and subsidy.

Tanweer Coverage Area & PDO Supply Networks



Tanweer Asset Transfer

In line with the strategic direction of the electricity sector in the Sultanate, the company transferred part of its assets to Majan Electricity Company and Dhofar Integrated Services Company, transferring some assets and customers as follows:

- Transferring all distribution assets owned by the company in the Governorate of Musandam to Majan Electricity Company and transferring all distribution assets owned by the company in the Governorate of Dhofar to the Dhofar Integrated Services Company.
- Transferring the service of all customers in Musandam Governorate to Majan Electricity Company and transferring the service of all customers in Dhofar Governorate to the Dhofar Integrated Services Company.
- The company's activities in the above-mentioned areas are limited to electricity generation.

It is worth noting that the company continues to provide service in Al-Wusta Governorate and parts of the governorates of South Al Sharqiyah, Al Dhahirah and Al Dakhiliya. Tanweer has presented a detailed study on the best and most effective ways to provide electricity service to these areas and the plan to connect to the main network, and consequently the gradual closure of diesel fuel power stations.

To ensure a smooth conversion process, a main executive committee was formed to oversee the conversion process headed by the CEO, in addition to the formation of three working committees to coordinate all necessary arrangements with their counterparts in other distribution companies and several other support teams.

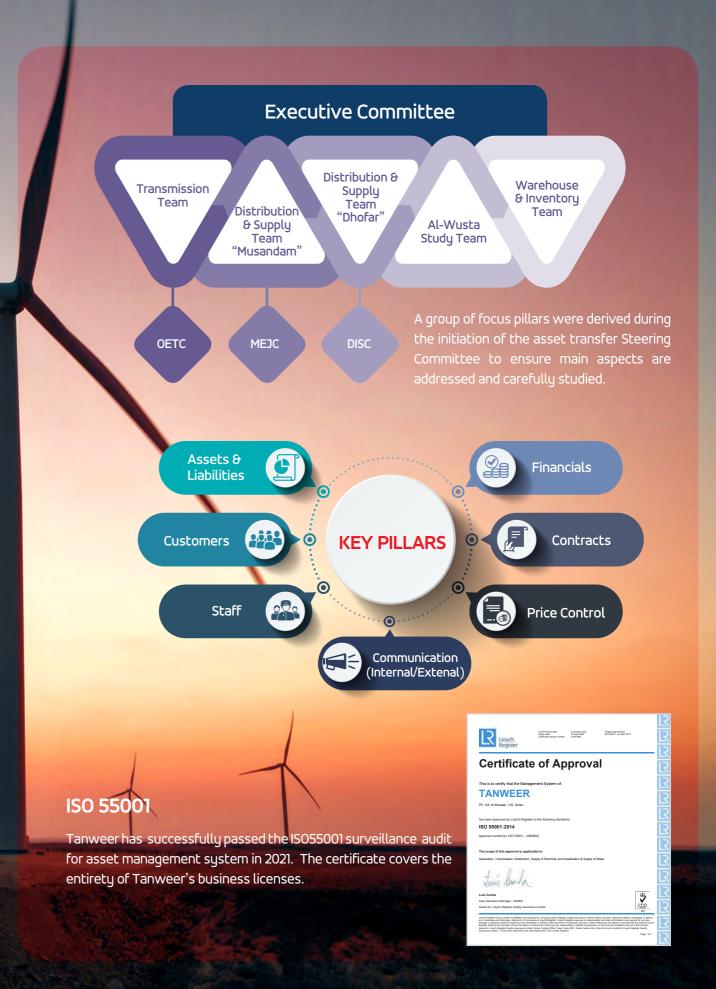
A set of key pillars have been identified to focus on for the transfer of assets to ensure that the main aspects are addressed and studied carefully. The figure below displays the main pillars on which the asset transfer committee focused on to ensure a successful transfer process.

The company has already succeeded in completing the transfer process on December 31, 2021.









CHAIRMAN'S MESSAGE

The Rural Areas Electricity Company (Tanweer) has in recent years been exerting its best efforts to improve its performance, continue its march of progress and achievements effectively and efficiently while maintaining high professional standards to meet all current and future electricity demand, in accordance with the highest technical standards. This has been made possible through constant focus on improving our business processes and developing integrated strategic plans with a view to bringing about a qualitative transformation in operational performance, so as to consolidate the Company's position and its significant role in advancing the power sector, as a key source of economic growth and main pillar of sustainable development.



On behalf of the Board of Directors of the Rural Areas Electricity Company "Tanweer" I have the pleasure to present the Directors' Report of the Company for the year ended 31 December 2021. The Report also highlights Tanweer's achievements, development work and project progress through a challenging year.

Ahmed Amur Nasser Al Mahrizi Chairman

The Company's Performance in 2021

Tanweer maintains its strategic direction in line with the national plans to reduce dependence on fossil fuels for electricity generation and shift towards renewable energy sources.

The Company achieved a profit after tax of 14,852 million RO in 2021 compared to 7,887 million RO in 2020, representing year-on-year growth of 88.3%. This can be attributed to the continued development in operational performance, human resources capabilities, and commitment to utilizing state-of-the-art technologies across the Company.

The Company achieved total revenues of 147,117 million OR in 2021, mainly due to the increase in the number of customers by 6.5%, the increase in electricity consumption by 8.6% as well as the increase in revenues of Dhofar Wind Farm by 17.5%.

The total expenses also decreased to 134,724 million R0 in 2021 compared to 135,946 million R0 in 2020, thanks to the concerted efforts and the continuous improvement of operational efficiency.

Quality, Health, Safety & Environment

Continuous improvement in QHSE performance remains at the heart of Tanweer's business strategy, which resulted in an outstanding performance in 2021 through the positive corporate culture and the concerted efforts of the management, staff and out-sourced service providers. More importantly, Tanweer staff and contractors clocked up 6,396,674 man-hours between January and December 2021, with a single lost-time injury and no reportable environmental incident.

A whole host of improved QHSE management system has been developed and implemented throughout the year, in preparation for planned assessment and certification for ISO 9001:2015 (Quality), ISO 4500:2018 (OSH) and ISO 14001:2015 (Environment).

Future Outlook

Tanweer continuously strives to become a global role model in terms of energy efficiency and reliability by promoting transition towards green economy and sustainable development. The Company has prepared its five-year plan (2018-2022) focusing on developing renewable energy projects.

By the end of 2021, Tanweer has generated 11% green energy from its total generated energy. Dhofar Wind Farm (50 MW), features 13 wind turbines; each turbine with a production capacity of 3.8 MW. It is the first large-scale wind farm in Oman and region, generating 119 GWh which directly feeds the main grid in Dhofar Governorate. Furthermore, from 2019 until January 2022, Tanweer generated approximately 2,203,527 kWh through Al Mazyonah IPP in Dhofar.

Tanweer has therefore achieved 55% of its vision of going greener by attaining 20% of the capacity from renewable sources by 2025.



Regulatory Price Control

By the end of 2021, the Company, in collaboration with the Authority of Public Service Regulation and The Public Authority for Special Economic Zones and Free Zones, completed a review of the price control monitoring plan. The Company has also defined and updated the price control mechanism and determined the operating cost (OPEX) and capital expenditure (CAPEX) requirements. The Authority of Public Service Regulation has determined the expenditure requirements for 2022, and the Public Authority for Special Economic Zones and Free Zones determined the same for 2022-2023.

Human Resources

The total number of employees reached 439 as of 31 December 2021, of which 432 are Omani, 7 expatriate and 18 staff appointed to the Distribution Code Review Panel (DCRP). Omanization rate reached 98% and the Company continues to develop a capable and talented Omani workforce that will contribute to the strength of the nation. Moreover, Tanweer seeks to increase the level Omanization through the set replacement plan.

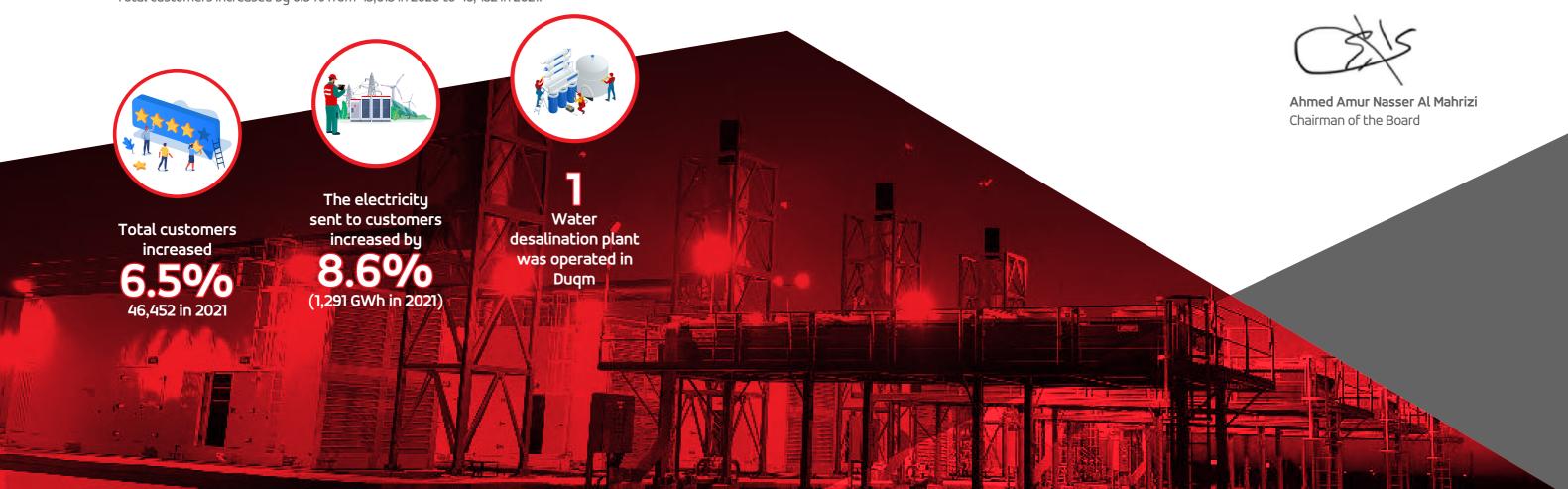
Operational Highlights

Total customers increased by 6.5% from 43,615 in 2020 to 46,452 in 2021.

- The electricity sent to customers increased by 8.6% from 1,189 GWh in 2020 to 1,291 GWh in 2021.
- · The Company has successfully transferred some of its assets and customers in Musandam and Dhofar to Majan Electricity Company and Dhofar Integrated Services Company pursuant to the relevant Authority of Public Service Regulation decision.
- · Tanweer adopts new technologies in serving its customers to ensure their satisfaction, such as the installation of smart meters (automated meter reading and prepaid meters). Furthermore, Tanweer offers its customers electronic bills and multiple payment channels.
- · The Company continues to improve and develop its compliance with the regulations and license conditions, with continued cooperation with Authority of Public Service Regulation, The Public Authority for Special Economic Zones and Free Zones, the Electricity Holding Company (Nama Holding) and other stakeholders.
- · An agreement was signed to purchase the energy generated by a natural gas power plant in the Special Economic Zone at Dugm, which will contribute to reducing operational costs by more than 5 million RO annually.
- Water desalination output decreased due to the transfer of most of Tanweer desalination plants to the Public Authority for Water since May 2020. In 2021, one desalination plant was operated in Dugm.

Acknowledgement

On behalf of the Company and the Board of directors, I would like to express my deep gratitude and appreciation to His Majesty Sultan Haitham bin Tariq to continue to lead the Sultanate on the path of development and prosperity. I would also like to take this opportunity to thank our shareholders and customers for their appreciated support, and to our management and staff for their hard work and dedication to achieve the Company's goals.



GOVERNANCE REPORT

Principles and Processes

The Company's corporate governance philosophy has been built on creating a performance-based culture along with compliance with the applicable laws and regulations, in order to achieve success in the current competitive business environment in a responsible and sustainable way that can create value for all stakeholders. The Board of Directors of the Rural Areas Electricity Company SAOC (Tanweer) is committed to maintaining the highest standards of corporate governance. The Company has designed its corporate governance policies and procedures in such a way as to ensure focus on its responsibilities towards stakeholders and create long-term shareholder value.

The Company recognizes the interests of all its stakeholders, including shareholders, employees, customers, suppliers or consumers, as well as the communities in which it operates. This forms the underlying principle for preparing the governance activities and processes by the Board. Tanweer's corporate governance framework is committed to maintaining the highest standards of business integrity, ethical and professional values in all its activities in order to reward all its customers with the best value year on year.



The Board of Directors comprises of 5 members pursuant to Article 179 of the Commercial Companies Law and Article 20 of the Articles of Association, which specified the term of office of all directors to be 3 years. It was amended on December 3, 2022 to comprise of 3 members.

Powers specifically reserved for the Board include:

- Providing direction and guidance to the Company in the formulation of its strategy and the pursuance of its operational and financial goals.
- Monitoring the governance systems and compliance therewith.
- Overseeing the systems of internal controls and risk management.
- Approving major acquisitions and disposals and capital expenditure.
- Reviewing Human Resources processes with emphasis on top management succession planning.
- Approving the balance sheet and strategic plans.

Subcommittee of the Board

The Board is responsible for the establishment and monitoring the functioning of all its subcommittees, the appointment of members to these committees and determining their remuneration. The Board has determined the terms of reference of the Audit Committee.

1 - Audit Committee

i) Composition and Meetings:

The Audit Committee comprises of two members of the Board. Internal and external auditors of the Company were invited to the Committee's meetings and heads of other functional units may attend upon invitation.

Pursuant to the directives of the Electricity holding Company (Nama), members of the internal audit function of Nama Holding attend the Audit Committee Meetings.

ii) The Committee's terms of reference:

The Audit Committee shall have the roles and responsibilities stipulated by the Code of Corporate Governance of Closed Joint Stock Companies, which includes include:

- Considering the name of the external auditor in the context of their fees and conditions of engagement, and the extent to which other additional services may affect their independence and impartiality and submit the appropriate recommendations to the Board of Directors of the Company regarding the same for putting before AGM for appointment.
- Reviewing the details of the auditor's action plan and the audit results, and ensuring the auditor is given full access to all relevant documents as necessary to carry out their tasks.
- Examining any fraud or misstatement in the financial statements and establishing strict control measures to ensure the existence of sound accounting policies and principles that show the real financial position of the Company.
- Supervising internal audit work by reviewing the action plan to study the internal auditors reports.
- Ensuring the appropriateness and adequacy of the Company's internal controls.

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- Supervision of the preparation of the financial statements, including reviewing the quarterly and annual financial statements before issuing them.
- Working as a liaison between the Board of Directors of the Company, external auditor and
- the internal auditor.
- Reviewing the Company's risk management policies and examining the reasons of default, if any.
- Reviewing the proposed transactions with related parties and making appropriate recommendations regarding the same to the Board of Directors.

Board of Directors' Meetings

Table (1): 2021 Board of Director's Meetings Schedule

Name of Board Member	Position	Attendance	IAC	ВМ	Sitting Fees (OMR)
Ahmed Amur Nasser Al-Mahrizi	Chairman	12/12		V	2,975
Saleh Rabia Al-Salmani	Deputy Chairman	7/7		V	1,750
Khulood Mustafa Abdul Khaliq	Member	12/12			2,500
Total Directors Remuneration for 2020					7,225

External Auditors

Ernest and Young were appointed by AGM as the external auditors of the Company for the fiscal year 2020.

Disclosure of related parties transactions during the financial year ended 31 December 2021. The Company has entered into business transactions with the following related parties during 2021.

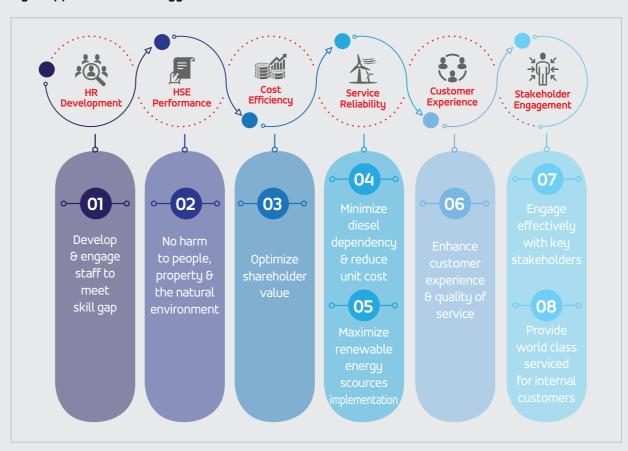
Table (2): Related Parties Transactions 2021

Name of Related Party	Shareholder/Director Description		Transaction Value (OMR '000)
Nama Holding	Nama Holding	Accounting Services Expenses	9,793
Nama Shared Services	Nama Holding	Service Agreement Fees	596
Numo Institute for Competency Development	Nama Holding	Service Agreement Fees	71
Distribution Code Review Panel	Distribution Code Review Panel	Accounting Services Expenses	232
OPWP	Nama Holding	Power Purchase	18,737

In conclusion, we are confident that the Company has continued to adhere to the highest standards of corporate governance of closed joint stock companies and has complied with the same in all the activities carried out during the financial year ended 31 December 2021.



Figure (1): Tanweer Strategy



HSE ACHIEVEMENTS

Safety Performance

As of 31 December 2021, Tanweer proudly completed 242 days (approximately 6 million man-hours worked) with one lost time injury and only two minor First Aid cases.

Table (3): QHSE Performance (2018-2021)

Component	2018	2019	2020	2021
Fatality	0	1	0	0
Lost Time Injury	1	0	0	1
Total Man-Hours worked	4,249,942	3,732,610	4,671,172	6,394,674
LTIFR (Lost Time Injury Frequency Rate)	.2	0.26	0	0.156



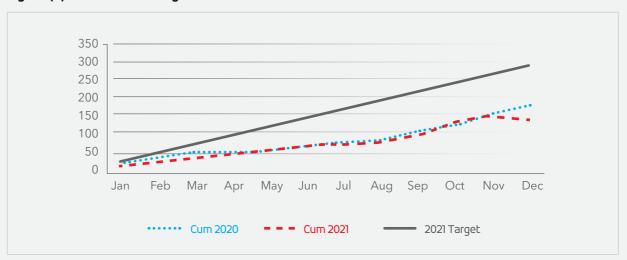
Figure (2): QHSE Performance 2021



Proactive Measures

Although it was necessary to revise the number of programmed inspections due to COVID-19 travel restrictions, Tanweer's management, supervisory and QHSE staff conducted 139 'Active Monitoring' site visits in 2021. During these visits, they were able to ensure immediate rectification of observed hazards and implement corrective action to ensure continuous improvement in HSE performance. All corrective and preventative actions (CAPA) were registered on the NIMS system and 100% of those due for implementation in 2021 were completed.

Figure (3): Active Monitoring Tanweer 2021



Furthermore, staff and contractors reported 2,696 'potential incidents' (PI reports); situations categorized as Unsafe Conditions, Unsafe Acts or Near Misses. Analysis of these reports enabled early identification of latent hazards and implementation of corrective measures to prevent recurrence and minimize the risk of subsequent harm.

Strategic Initiatives

Throughout 2021 Tanweer continued to deliver the initiatives set out in our rolling 5-year QHSE Strategy Plan, aimed at continuous improvement in Quality, Health and Safety and Environmental performance.

Table (4): QHSE Initiatives

Focus Area	Deliverables
ISO	Development of new Integrate Management System Manuel in preparation of ISO9001:2015,45001:2018 & 14001:2015 in 2021
	Continuation supplier Safety Passport, enabling on-site verification of contractors (over 1,337 Safety Passport books issued)
Health & Safety	 Safety Stand Down events delivered online (due to COVID-19 restrictions), to provide staff and contractors with updates on all QHSE performance, new SOPs and accident learning points)
	Operational Safety Awareness workshops for regional/site staff and contractors
	Health & Safety Audit compliance audit with corrective measures
	• Public safety awareness campaign, focused on safety at home and awareness of electrical asset hazards
Environment	Provided Jute bags for all Tanweer Staff, to build Environmental Culture
ZShirtene	Cooperation with SEZAD on Environmental Campaign

In addition to the above, Tanweer continues to respond promptly and effectively to the COVID-19 pandemic by preparing a comprehensive contingency plan and implementing strict control and monitoring processes. These procedures have greatly controlled the risk of cross-infection in the workplace and thereby minimised business disruption.





Network Reliability & Contact Center (Outages)

Tanweer network reliability is closely monitored to ensure its constant efficiency and consistency by implementing the following actions:

- · Setting a clear and effective standard operating procedure (SOP) for gathering and reporting the data interruptions. An SOP has been established by the Asset Management team to rectify unclear procedures in the interruptions data reporting.
- · Establishment of a standard data interruptions form and spreadsheet to cover all the data interruption details to be filled out by all emergency teams and site engineers within Tanweer. A new form and spreadsheet has been established by the Asset Management team and circulated to all regional offices for implementation.
- Conducting of the data interruptions auditing on an annual basis while the purpose of audit is to ensure that the data interruptions, recording and reporting are performed in line with Tanweer's Requirements.
- · Standardizing of the data interruptions Logbook which is used by emergency teams to record all the data interruptions details used at all sites within Tanweer
- Issuing a dashboard on a monthly basis which covers all the performance indicators along with Tanweer Reliability Indices.
- · Conducting of data Quality Check every month using a Quality Check form to ensure all the received data is as per approved SOP.

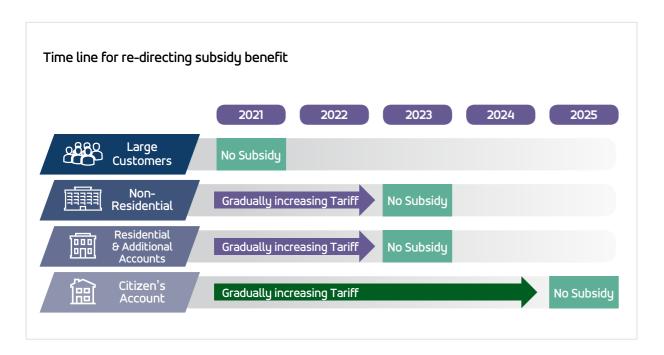
Customer Engagement

In 2021 Tanweer conducted different customer engagement activities not limited to:

• Asset Transferring Engagement – Tanweer communicated with all customers in Dhofar & Musandam. This engagement occurred via official letters sent to customers, physical meetings and through media & social media channels.



• Tariff Reform – Tanweer communicated internally and externally with employees and all customers regarding the implementation of the new tariff rates in 2021 as per Authorities' quidelines.



- · Customers Data Update Tanweer communicated with customers encouraging them to update their data to benefit from the residential tariff thus, aiding in maintaining high level of data accuracy.
- Self-Meter Reads Tanweer communicated with Door Looked Premises (DLP) customers to encourage them to provide self-meter reads by communicating with them through, calls, official letters & SMS.

Customer Base & New Connections

Overall, the number of Tanweer customers has grown by 6.5% in 2021. Net additions of 2,837 customers were added to the customer base in 2021. The following table displays the growth in customer accounts over the last 3 years.

Table (5): Growth in Tanweer Customer

	2019	2020	2021
Customer Number	41,586	43,615	46,452
Number of new connections	1,813	2,029	2,837
% Growth	7	5	6.5

Meter Reading / Accuracy

Overall, meter reading accuracy in 2021 reached 89% thu, 2% higher than 2020 outturn. The increase was due to implementation of different initiatives such as, AMR, Prepaid, DLP disconnection and Site Surveys undertaken. Additionally, meter reading supported by meter photos increased the percentage in Q4 2021 which aided the meter reading accuracy to reach 92%.

The number of smart meters installed in 2021 is reported as 4,589 meters including AMR & Prepaid.



Bill Distribution

In 2021, Tanweer managed to achieve 91% in Bill distribution to all its active customers delivered via SMS, Emails & by Hand Delivery.

Collection & Customer Contact

Tanweer offers customers multi-channels for payment including mobile apps and kiosks. The total e-payment transactions figure in Tanweer was 28% in 2022.



HUMAN RESOURCE

Everyone in Tanweer contributes their unique personal skills so that together the company produces excellent performance in all areas of its business. Our shared values encompass a common sense of public commitment and a strong sense of duty to the community. One of the company's main objectives is to develop a capable and talented Omani workforce that contributes to the strength of the nation. By December 2021 the number of directly employed staff reached 439 employees. The figure includes 18 fulltime staff appointed to the Distribution Code Review Panel (which supports standards and specifications work for all sector companies). The following table and figures displays the number of staff in each category, the Omanisation percentage and the functional staff distribution.

Table (6): Number of Omani & Non-Omani Staff 2021

Job Category	Omani Staff No.	Expatriate Staff No.
General Managers & Deputies	2	0
Operations & Maintenance Managers of Technical Departments	7	0
Managers of Administration & Finance	11	2
Deputy Managers & Head of Sections	52	3
Engineers	83	2
Technicians	58	0
Skilled Manpower	201	0
Distribution Code Review Panel Staff (DCRP)	18	0
Total Direct Employees	432	7



Figure (4): Omanisation in Each Function %

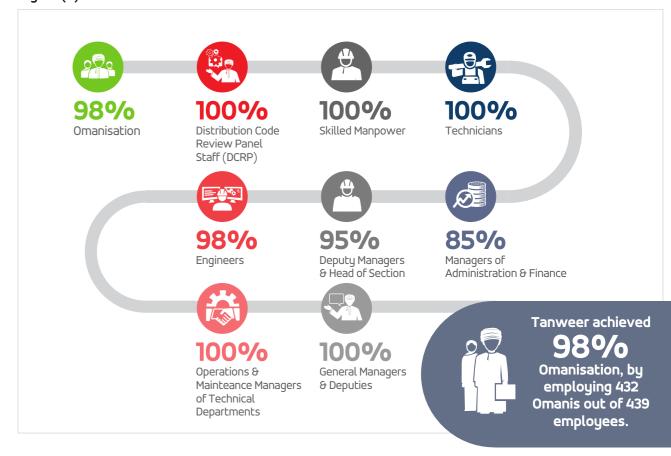
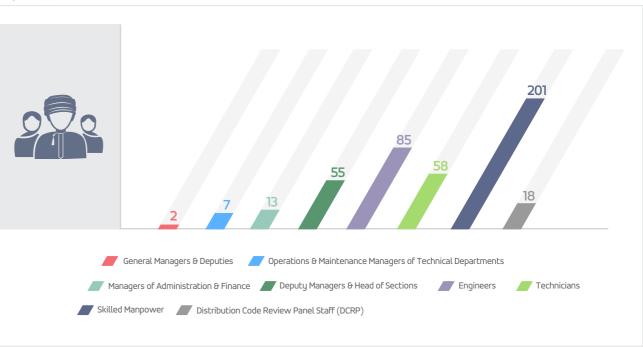


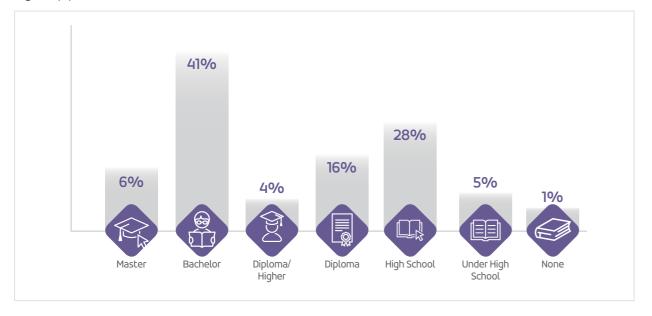
Figure (5): Functional Staff Distribution



Skills, Qualifications & Training

Tanweer considers training and development for its staff as one of its main priorities. Several staff members are currently undergoing higher education scholarship programs as part of their development plans. Moreover, despite the challenges that Tanweer faced during the Pandemic period, it was able to provide more than 209 online courses to include the majority of Tanweer's staff a range of technical and business skills. It can be observed from Figure (6) that around 47% of total Tanweer staff are qualified to Bachelors' or Masters's level.

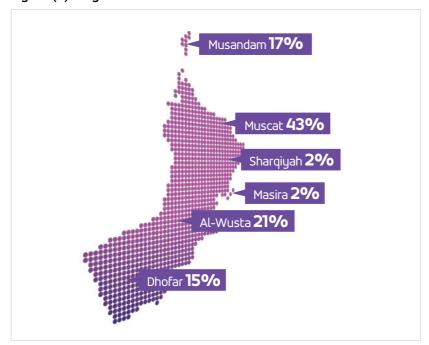
Figure (6): Qualification of Staff



Regional Staff Distribution

It can be observed from Figure (7) that 43% of total Tanweer direct staff members are located at head office in Muscat. The rest are distributed among the authorized areas according to need, size of network and customer distribution. Customer regional offices are providing direct support to customers and addressing their needs (21 Offices). Besides, the Emergency Service office, customer services offices, and power plants are manned by Tanweer contract staff (approximately 1,562 contract staff)

Figure (7): Regional Staff Distribution



Customer Served per Employee

Figure (8) shows an increased number of customers served per employee annually due to the increased number of Tanweer's customers by 6.5% for the year 2021. Despite the increase in the number of customers served per employee, Tanweer's staff operate and focus on the satisfaction of customers, as the company has achieved 100% in the customer satisfaction incentive scheme.

Figure (8): Customer Served per Employee





IT & OT (INFRASTRUCTURE & CYBERSECURITY) & **FUTURE DIGITIZATION DIRECTION**

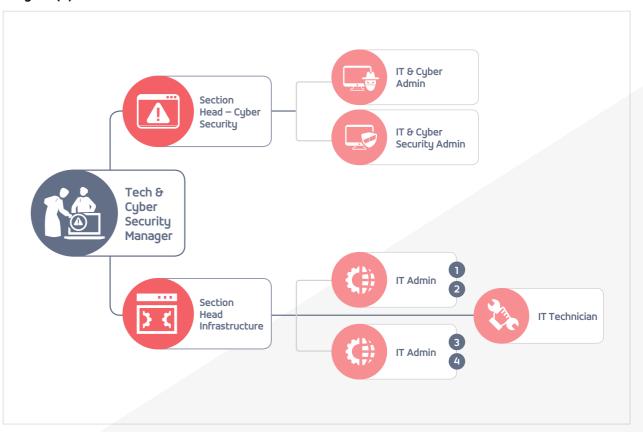
Tanweer Information Technology Department comprising of Cyber Security, IT Administration and Support activities proactively facilitates corporate service excellence through the provision, planned and secured evolution of technology and related support services in the Organization.

Mission & Vision

Provide reliable, secure, Support the implement, Develop and applications and easily support IT and maintain accessible IT that the the corporate Program and infrastructure corporation Cyber Security desktop, IT to meet the uses as Service Desk, Project, business an Energy printing, and and Service and service services telephony Management. needs of the provider. infrastructure. organization.

International Technology Structure

Figure (9): IT Structure



Strategic IT & Cyber Security Project Plan 2022

- · Integration of next-generation network monitoring and intrusion detection technologies to Tanweer SCADA networks;
- Enhancement of VPN solutions to include HO and Tanweer's strategic partners;
- Harmonization of firewalls & backup solutions for regional offices & key SCADA locations;
- · Conducting vulnerability assessment and penetration testing of SCADA environments;
- · Upgradation of IT systems, storage, and security appliances; and
- Establishing disaster recovery testing of HO & regional office systems.



OPERATION PERFORMANCE

Customer Base

Tanweer serves electricity to customers by supplying power from 28 diesel power stations while some customers are supplied through connections of networks belonging to PDO (Petroleum Development of Oman). The total number of customers served by Tanweer in 2021 reached 46,452 customers with a different tariff category. Table (7) shows 2021 customer number by their category and the corresponding energy consumption by category.

Table (7): Customer Category & Consumption in 2021

Tariff Category		Custo	omers	
	No.	%	MWh	%
Agriculture & Fisheries	473	1.0	13,980	1.1
Commercial	9,928	21.4	84,940	6.6
Domestic	31,482	67.8	514,048	39.8
Government	3,378	7.3	81,014	6.3
industrial	42	0.1	491	0.0
Ministry of Defense	81	0.2	7,455	0.6
Tourism	38	0.1	1,279	0.1
CRT2	1,030	2.2	587,908	45.5
Total	46,452	100	1,291,115	100

Table (7) protrays the majority of 68% of Tanweer customers are in the domestic category, consuming 40% of the total supplied energy. On the other hand, the number of CRT customers is low comparing



to the other customer categories (only 2.2% of the total customers) however they consume a considerable amount of energy which is calculated as 46% of the total supplied energy. The remaining 14% of the total energy is divided into the other category shown on Table (8).

Figure (10): Percentage of Tanweer Customer by Category



Customers Growth

The number of Tanweer customers has increased by 6.5% in 2021 with net additions of 2,837 customers. The most significant increase is in the domestic category with a total of 1,891 new customers followed by the commercial with 767 new customers and 564 customers in the CRT. These are the top three categories with the highest growth in 2021. The growth in the other categories is very minor and varies from 3 to 24 new customers. The average growth in the total number of customers in the past three years is 12%. As can be seen from Table (8), the majority of growth is in the residential customers with the largest portion of customers.

Table (8): Growth in the Number of Customers

Customer Category	2019	2020	2021
Agriculture & Fisheries	595	619	473
Commercial	8,443	9,161	9,928
Domestic	28,465	29,591	31,482
Government	3,555	3,563	3,378
Industrial	37	42	42
Ministry of Defense	81	102	81
Tourism	68	71	38
CRT ¹	342	466	1,030
Total	41,586	43,615	46,452
Number of New Connections	1,813	2,029	2,837
% Growth	5	5	6.5

^{*}CRT customer includes those subjects to a cost-reflective tariff, mainly commercial, industrial & government customers consuming more than 150,000 KWh per year

Capital Expenditure

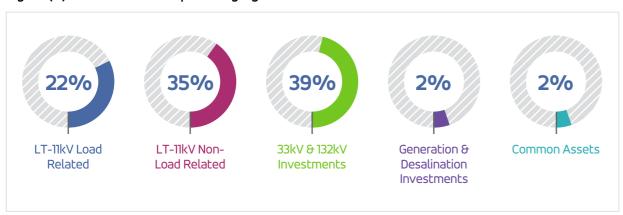
Tanweer prepares the annual financial budget needs for implementation of required electrical works, through improving electrical networks or by connecting customers in order to provide the necessary electricity production capacity. Table (9) below shows the amount that have been spent throughout the three years period from 2018 to 2020. It can be noted that total expenditure depends on economic activaties in the country which varies from year to year. Tanweer has spent approximately OMR 52 thousand within three years and 2020 capex includes a payment of OMR 3.67 million for Khasab power plant project which was completed in 2019. These classifications are divided according to the following:

- Amounts assigned to 11 kV loads related investment.
- · Amounts related to the improvements of the non-load-related investment.
- The amount related to the improvements of the 132 and 33 kV networks.
- The amounts related to generation and desalination investments.
- · Amounts related to common assets.

Table (9): Total Capital Expenditure 2019-2021

Category	2019	2020	2021
LT-11kV Load Related	3,998,433	2,718,665	3,574,336
LT-11kV Non-Load Related	829,367	279,190	5,794,685
33kV & 132kV Investments	7,799,300	8,828,463	6,470,973
Generation & Desalination Investments	662,828	4,629,411	376,579
Common Assets	1,788,463	200,745	371,222
Total Capex	15,078,391	16,656,474	16,587,795

Figure (11): % of 2021 CAPEX per Category



Demand & Supply

Power Generation

Power sent from Tanweer Plants & Power Purchases

The net power sent from Tanweer power plants increased from 803,701 MWh in 2020 to 866,143 MWh in 2021 reflecting an increase of 7.8%. Figure (12) shows MWh sent out from Tanweer power stations and power purchases in the last five years. Figure (13) shows the detail of Tanweer supplied power by Tanweer Plants, PDO, Tibat, and Al-Mazyunah (renewable PV) sources.

Figure (12): MWh Sent out from Tanweer Power Stations & Power Purchases (MWh)

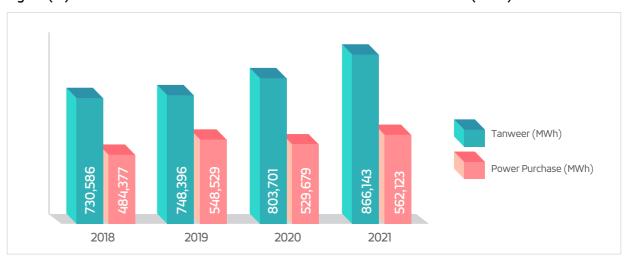
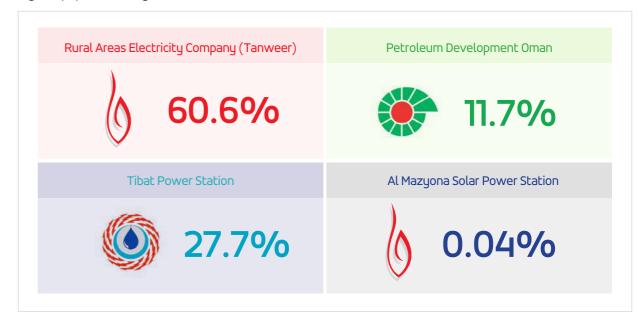


Figure (13): Percentage Power Sent from Tanweer Plants & Power Purchase 2020



Regional Energy Generation

Figure (14) shows the regional power generation from Tanweer power stations in 2021. It can be noted that around 35% of power was generated from Dhofar power plants, 34%, 28%, and 4% from Dugm and Al Wusta and Musandam power plants respectively.

Figure (14): Regional Power Generation 2021 (Tanweer Power Plants)



Demand Profile & Load Profile

The acceleration in energy demand reflects the main challenges for the Rural Areas Electricity Company (Tanweer).

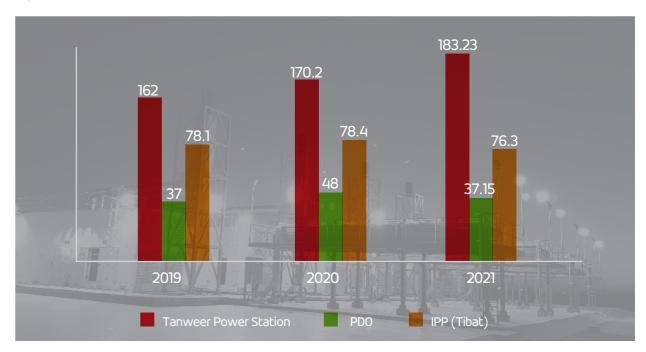
As the peak load growth rate has reached 7% in 2021 system peak compared to 2019. This increase is due to the current situation in the country and aftermath of COVID-19 pandemic in 2020 and 2021, reflecting the high demand load consumption. This is due to most people staying at home while inductive loads are running most of the time. Moreover, in Duqm, the number of industrial load has increased due to number of requested connection application for high bulk load.

The peak loads within Tanweer operation areas reached around 296.6 MW at system peak. The electric demand is divided into three main sections:

- 1. The energy produced by Tanweer power plants, which is about 183.2 MW in 2021 at system peak.
- 2. The imported power from the Tibat power plant at Musandam which is around 76.3MW in 2021.
- 3. The imported energy from the Petroleum Development Oman (PDO) network which is approximately 37.1MW at system peak in 2021.

Figure (15) displays total peak loads for all the Tanweer system in MW.

Figure (15): Tanweer Load Profile (MW) (2019-2021)



Electricity Supplied

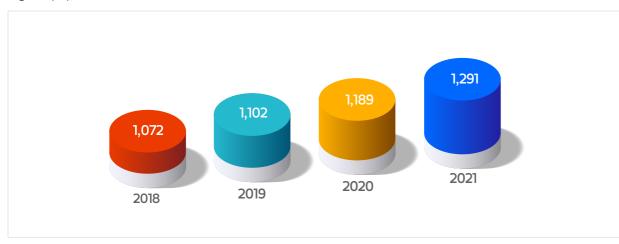
Unit Sold per Customer Category

The energy supplied to Tanweer customers reached 1,291 GWh in 2021 compared to 1,189 GWh in 2020. Table (11) shows 2021 energy supplied segregated into the customer's categories which implies domestic customers are the highest energy consumers. The graph in Figure 16 displays the trend of the power supplied among the last three years. The increase in 2021 is mainly due to the addition of Tibat gas processing plant as a customer of Tanweer, with a consumption of around 395 GWh per year.

Table (10): 2021 Energy Supply to Customer Category

Tariff Category	Electricity (Electricity Consumption			
raiii Category	MWh	%			
Agriculture & Fisheries	13,980	1%			
Commercial	84,940	7%			
Domestic	514,048	40%			
Government	81,014	6%			
Industrial	491	0%			
Ministry of Defense	7,455	1%			
Tourism	1,279	0%			
CRT ²	587,908	46%			
Total	1,291,115	100			

Figure (16): Growth in the RUD



Unit Sold per Governance

The following figure portrays the regional power sent to customers. It can be noted that around 30% of power was sent to Musandam and Al Wusta Customers, 21% and 19% to Dhofar and Al-Duqm customers respectively.

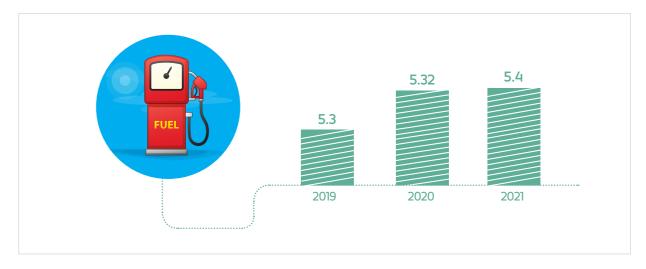
Figure (17): Regional Power Sold 2021



System Fuel Efficiency

Tanweer's measure of system fuel efficiency represents the total kWh supplied to customers divided by the total diesel fuel required to run thesystems (liters). As some of the power is procured from nondiesel sources (mainly Musandam Independent gas Power Plant as well as PDO Gas-fired generation) an increase in these sources will reduce overall diesel consumption. Tanweer reached 5.401 kWh per liter of fuel in 2021. This was mainly due to an increased contribution of energy generation from Tibat Independent Gas Plant, in the Musandam governorate. The following Figure show the trend in diesel fuel requirement (efficiency) from 2019 to 2021.

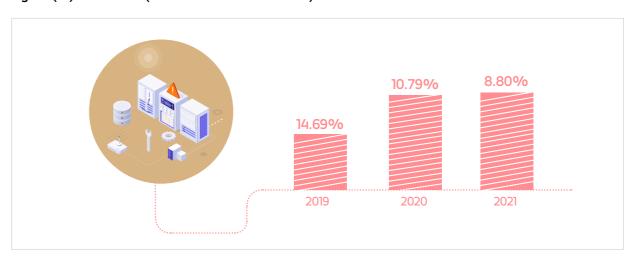
Figure (18): Fuel Efficiency (kWh / litre) (2019 - 2021)



System Loss

System loss for the year 2021 is 8.8% compared to 10.79% in 2020. The company has put great efforts to reduce the technical and non-technical system losses as much as possible which was addressed mainly by implementing more effective billing and collection procedures. Furthermore, the guidance and strong collaboration of the Losses Committee, headed by the CEO, included the relevant departments of operation, supply, finance, and planning teams- all who coordinated closely to research and accurately determine the loss in the system.

Figure (19): % Losses (Technical & Non-Technical) in 2019 to 2021



Electricity Reliability

Tanweers' network has grown in terms of network length and number of substations in 2021 compared with 2020. However, the network total capacity decreased due to the transfer of several of Tanweer's power plant loads to DISC in Dhofar area and transferred some power plant loads to 132 kV Tibat in Musandam area, resulting in the shutdown of some of Tanweer power plants. Moreover, Duqm Power Station was considered under Al Wusta governorate until 2019 and is considered under SEZAD from 2020. Table (12) shows Tanweer network between 2020 and 2021.

Item	Description	2020	2021
	Dhofar	116.6	141
	Musandam	91.3	97.3
Capacity (MW)	Al Wusta	109	144.9
	SEZAD	74.7	65.7
	Total Tanweer Capacity	416	449
Nobycest leadth (Ice)	overhead	5,688	5,777
Network length (km)	underground	3,040.5	3,322
	Grid	5	4
Chabinas (Nos)	Primary	105	88
Stations (Nos)	No. Distribution Substation (11/0.415 kV) - Ground mounted	1,551	1,364
	No. Distribution Substation (11/0.415 kV) - pole mounted	2,619	1,862
	Distribution	424.037	394.218
SAIDI	Generation	342.710	101.936
	Total	766.747	495.154
	Distribution	3.498	2.307
SAIFI	Generation	3.464	0.486
	Total	6.962	2.793
	Distribution	121.219	170.872
CAIDI	Generation	98.929	209.603
	Total	110.129	117.615





The company received 31 complaints from customers during year 2021, all of which were resolved in a timely manner. There is a 224% increase in the number of calls received and processed for customers in 2021. This outcome was due to customer inquiry calls mainly relating to subjects of government support redirections, updating customer billing data and electrical network issues. Nevertheless, our employees have succeeded in responding to twice the number of calls compared to year 2020 having similar resource availability, despite the absence of several call center employees at times to 'work from home' during Covid-19 conditions, while still ensuring lost calls are tracked and followed.

Table (12): Call Centre Performance for the year 2020 & 2021

Year	Offered	Offered Handled Abandoned		Service Level
2020	23,750	19,535	4,076	82%
2021	77,045 56,5		20,545	73%

Operational Data

Table (13): 2021 Operation Data For power plants-Dhofar

	Tanweer DG			The month	Maximum	Gross		Diesel
Plants	Installed (kw)	Available (kw)	DG (kw)	of Peak Demand	peak (kW)	MWh	Net MWh	000 Ltrs
Al Halaniyat	2,100	1,228	-	May	485	2,320	2,258	737
Andat	3,450	1,997	-	June	1,120	4,388	4,304	1,292
Barbazum	2,008	772	-	June	650	2,869	2,857	946.924
Dhahabun	5,889	2,976	1,000	May	2,421	11,404	11,387	3,448
*Fatkhat (mar)	1,142	671	-	March	180	6,300	6,265	9,859
Hirweeb	2,775	880	1,000	June	1,400	5,817	5,800	1,575
Mazyunah	20,000	6,733	5,833	June	11,340	46,925	45,927	13,170
Mitan	4,387	1,733	750	July	1,300	4,927	4,904	1,424
Mothorah	1,600	1,280	-	May	440	2,159	2,149	692.245
Shahb Asayb	23,070	16,000	-	June	9,800	47,060	45,716	11,793
Sharbatat	4,728	2,489	-	April	1,230	6,970	6,916	2,323
Mudhai(new)	5,870	3,320	500	June	2,490	10,083	9,716	2,866
Hasik(new)	6,000	3,200	500	November	2,565	12,839	12,625	3,891
SaihAlKhirat	48,000	44,546	-	June	23,700	142,217	137,035	35,422
Fershat Qatbeet	10,000	8,000	-	August	2,448	10,083	7,839	2,710
Tatal of 15 Power Station	141,019	95,826	9,583	-	61,569	310,067	299,438	82,301

^{*}Fatkhat power station closed on March 2021.

Table (14): 2021 Operation Data for Power Plants - Musandam

	Tanweer DG			The month		Gross		Diesel
Plants	Installed (kw)	Available (kw)	DG (kw)	of Peak Demand	peak (kW)	MWh	Net MWh	000 Ltrs
Madha	17,300	7,625	1,793	July	7,450	30,790	30,012	8,590
Khasab (New)	80,000	73,333	-	March	41,806	1326.184	1326.184	305.727
Lima (Rental)	0	0	2000	January	600	0.606	0.606	5.695
Tatal of 2 Power Station	97,300	80,958	3,793	-	49,856	32,117	31,338	8,901

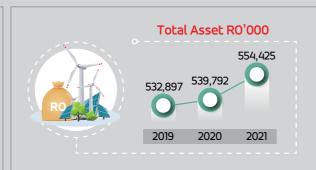
Table (15): 2021 Operation Data for Power Plants Al-Wusta

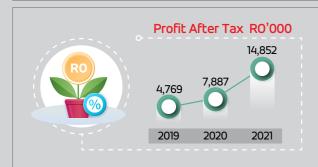
	Tanweer DG			The month	Maximum	Gross		Diesel
Plants	Installed Available (kw) DG of Peak (kW) Demand (kW)	peak (kW)	MWh	Net MWh	000 Ltrs			
Masrooq	3,500	2,082	-	July	1,408	3,903	3,959	1,220
Al Duqum	65,796	44,100	14,900	June	58,200	299,995	290,749	82,623
Masirah	56,021	56,021	-	May	22,220.00	112,513	107,485	30,364
Al Khaluf	2,500	1,866	-	May	1,350	5,860	5,721	1,745
Al Khuiaima	8,192	4,823	-	April	5,010	18,906	18,608	5,393
Al Najdah	2,500	1,967	-	May	1,465	5,469	5,349	1,621
Hij	45,333	7,220	12,166	May	14,160	57,962	57,674	16,295
Hitam	3,432	2,503	-	May	1,750	7,115	6,831	2,145
Surab	4,000	3,100	-	April	2,290	11,087	10,931	3,217
Dhafrat	3500	2,533	-	May	1,230	3,875	3,793	1,141
Al Khadra	15,954	7,338	-	May	5,350	25,888	24,135	7,400
Wadi Aswad (Rental)	-	-	5,000	June	3,582	190	187	9
Tatal of 11 Power Station	210,728	133,552	32,066	-	118,015	552,761	535,423	153,173

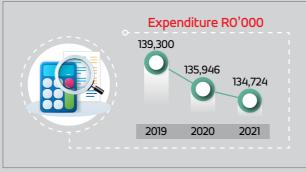


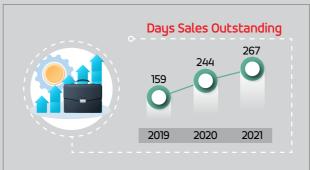
Figure (20): Financial Performance (2019-2020)











Communication & Sustainability

Communication Initiatives & Achievements

Testing & Commissioning of 2 solar systems in Al Kahil & Al Duqm

Tanweer's team conducted a site visit to Al-Kahl School and Dugum School in Al Wusta Region to test and operate two of the solar energy systems for both schools.



Sustainability

Social Responsibility Initiative

Tanweer provides UPS systems for customers with special needs

The Company has contributed in providing one of its customers in Wilayat of Mahout at Al Wusta Governorate with an Uninterrupted Power Supply (UPS) device to ensure sustainable power during emergency or programmed outages.

Tanweer is committed to keeping a register for customers with special needs to sustain special services to customers who rely on electric-powered medical support equipment, suffer from disabilities, chronic diseases, a limited income or an elderly retirement age.

The company pays special attention to this category of customers by providing the necessary control tools and connections for electrical appliances and meters (including prepaid meters) and shifting meters. Tanweer also provide awareness on electricity usage, steps to be taken during power outages and the necessary arrangements to limit the disconnection of electricity to customers with special needs.

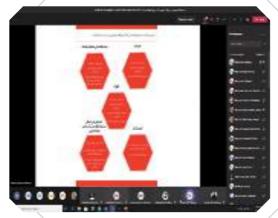
Tanweer invites its customers to update those with special needs and who are vulnerable to any energy supply interruption to benefit from Tanweer's features designated for customers with special needs. These features include early alerts of programmed outages, the priority of restoring electricity in the event of emergency outages and obtaining additional facilities related to bills and payment periods according to the "Special Needs Customers Code of Practice".

Customers of this category can update their data to benefit from these facilities by filling out the Special Needs Assessment form available on Tanweer's website or calling the Contact Centre on the toll-free number 80077787.

Tanweer employees participate in sponsoring the virtual walk "Walkathon"

The employees of Tanweer participated in the annual virtual walk "Walkathon" which lasted for two days (May 22-23, 2021). This is part of the company's strategy to support social responsibility initiatives to serve the community and based on the principle of partnership and cooperation between "Tanweer" and the Oman Cancer Society.

The march is one of the most important annual activities in Oman organized by Oman Cancer Society to help support cancer patients and raise public awareness about cancer prevention and control. Given the importance of the event and due to the effects of the Corona pandemic (Covid-19), the event was launched via the virtual platform, which is interactive, educational and rich in information, contributing to enhancing awareness. Tanweer works according to a long-term vision targeting the implementation and support of its activities through various available means.



Environment Initiatives

"Tanweer" provides more than (1000) environmentally friendly bags

Tanweer launched an initiative to distribute more than (1000) environmentally friendly and multi-use bags in support of the decision to ban the use of single-use plastic bags, which studies have proven dangerous to the environment and wildlife.

In order to reduce the use of all single-use materials, whether plastic or other materials, the company had earlier launched a "No to Plastic Products" campaign, through which it replaced the plastic water bottles that employees use on a daily basis with refillable metal containers.

Through environmental initiatives, Tanweer seeks to raise awareness about the harmful effects of plastic waste and educate employees about possible solutions to reduce the dilemma of consuming unnecessary plastic bags.





"Tanweer" intensifies its campaigns on the importance of Earth Hour

Tha Company participated in the global event "Earth Hour" through an intense media campaign that lasted for 10 days, within the framework of the company's firm commitment to social responsibility and the preservation of the environment.

Tanweer is keen to annually celebrate Earth Hour and participate in this global event, with the aim of spreading awareness about how to preserve the earth and the importance of saving energy and rationalizing consumption. While community member turn off lights and unnecessary electrical appliances for an hour, Tanweer participated in this event by turning off the lights in buildings of its concession areas for a full hour from 8:30 pm until 9:30 pm on Saturday, March 27, 2021.

Using all communiation channels, Tanweer invited members, all members of society to participate in this initiative and to turn off all unnecessary lights and electrical appliances and show their solidarity in the face of climate change. The company also organized a number of awareness campaigns to encourage employees to turn off unnecessary lights and unplugging of unused electrical appliances in their offices and homes.



Stakeholder Engagement

Nama Group New Board Visit

Nama Group new Board of Directors paid an introductory visit to Tanweer, in the presence of Tanweer Board of Directors, Nama Group CEO, Eng / Omar Al-Wahaibi, Tanweer CEO, Eng/ Saleh Al-Rumhi, and the Executive Management Team.



Visit of Undersecretary of the Ministry of Energy and Minerals to Dhofar Wind Farm

A site visit of HE Enq. Salem Bin Nasser Al-Aufi, Undersecretary of the Ministry of Energy and Minerals and Mr. Ahmed Bin Said Al Harthy Tanweer CEO Acting, and other officials to Dhofar Wind Farm.





New Solar Connections

The small scale grid connected Solar PV project has the main advantage of using solar energy instead of traditional energy sources. Firstly, it will lead to the reduction of harmful carbon emissions and maintening air quality. Secondly, it conserves natural resources as provisions which can then be utilized as to enhance national development, provide employment opportunities for local cadres, add new industries and sectors and drive economic diversification. The purpose of these new solar connections is to define the process of connecting the small-scale solar PV systems to Tanweer grid. The new solar connections will be utilized as general information of solar PV systems to the public network in Tanweer.

The scope of these new solar connections will cover mainly APSR guidelines of small-scale gridconnected solar PV systems for the following stages:









Inspection &



Since 2021, Renewable & New Technology Studies department has implemented the following small-scale grid connected solar PV projects:

Project Name	Location	Total Installed DC Capacity (kWp)	Total Installed AC Capacity (kWAC)
Al-Duqm School PV System	Ad'Duqm	111.8	100
Al-khahil School PV System	Al Jazer	120.4	120
ABSS - Abu Bakr Siddiq School	Khasab	112.8	120
JOS - Jawharat Oman School	Khasab	112.8	120
Musandam School	Khasab	98.58	86
Qarn Al-Alam Water Well PV System	Adam	40.9	36
Qarn Al Alam School PV System	Adam	89.18	-

Al Mazyunah Solar Project

- This was a pilot project aimed to identify key obstacles and opportunities associated with the deployment of similar projects in the future.
- Tanweer signed a 20-year PPA with the private investor Bahwan Aston Field, owner of the 307 kWp PV power plant, to purchase electricity produced from the PV plant.
- The plant consists of two PV technologies, Polycrystalline and Thin-film. The PV power plant contains a total of 1617 modules, 31 inverters and covers an area of 8000 m2.
- The project was commissioned in May 2015.
- In 2021, total energy generated reached 558 MWh.



Tanweer Headquarter Roof-Mounted Solar Photovoltaic System

Tanweer's Tanweer Headquarter roof mounted Solar PV system consists of a total PV capacity of 44.6 kW which generates 72 MWh annually. It was commissioned on 29 January 2019 with representation from MEDC. The commercial operation date was on Feb 4th, 2019.

Since the HQ building is subjected to CRT, the project will contribute to reducing energy costs over the long-term depending on the system capacity and energy consumption. Other objectives of this project include knowledge gain and transfer to local and international research institutions, Tanweer employees, interested NAMA subsidiaries, and other Tanweer stakeholders. The project provides Tanweer with a better understanding of the operation and maintenance of solar PV systems, which will help to achieve high efficiency of the solar panels in future.

Until the end of 2021, the system has generated nearly 208.3 MWh which saved OMR 6566 and reduced 142.3 tons of CO2.

Dhofar Wind Farm

- Tanweer signed an agreement with Abu Dhabi Future Energy Company (Masdar) to develop Dhofar wind power project with a total installed capacity of 50MW, connected to the OETC south grid.
- The wind project was commissioned on 15th November 2019, consisting of 13 wind turbines (3.8 MW each wind turbine – GE Technology).
- The project is located in Fatkhait Dhofar Governorate.
- Total energy generated in 2021 was approximately 120.5 GWh.





Upgrading Existing 33/11, 2X10 MVA Primary Substation at Haima in Al-Wusta Governorate

Tanweer has successfully energized and upgraded the existing Haima primary substation and expanded the switchboard at a total cost of OMR 299 Thousand in Haima province in Al Wusta Governorate, as part of expansion and development projects of the electrical network in the governorate.



Upgrading of Al-Nadha area Network Capacity at Wilayat Masirah in Al-Sharqiya South Governorate

At a total cost around OMR 512,590, Tanweer has successfully energized and upgraded Al Nahdha network by adding 6MVA step down Transformer in existing Dowa Primary Substation and laying 11KV underground cable up to the existing DSS. This project was designed to reinforce the existing feeders to meet the growing demand in the area and enhance the reliability of power supply in Masirah Area. The project consists of two parts as follows:



Construction of new 11KV underground Cable from Dowa Primary substation to the distribution substation (Al Nahdha area) with a total length of 15 km

Supply & installation of 6 MVA transformer, and 33 KV & 11 KV Gantry. The project has been energized and completed on 16/09/2021.

Transformer Line for Khuwaima Power Station

A transformer line for khuwaima power station installation of (1MVA-33/11KV) primary substation and installation of (11KV/.415 LV) network with distribution transformers have been designed to feed power supply to Al Kuwairah area Jalan Bani Hassan - Al Sharqiya South Governate. At a total cost of RO 1,022,266,000, Tanweer carried out the works of extending electrical power supply to the village of Juwayriyah in the Wilayat of Jalan Bani Bu Ali in the South Sharqiyah Governorate as a part of connecting the electricity to the areas that are not illuminated due to the housing and economic growth in the area. The project consists of the following Parts:



Construction of overhead line of 33 KV from the Khuwaima power station, with a distance around 56 km.

Construction of a primary substation with step down transformer from 33KV/11KV with a Capacity of 1 MVA.

Establishment of networks with voltage of 11 KV and low voltage in the region for the demand for electricity delivery.

The Project work was completed and energized on 22/09/2021.





