

**Key Result Areas (KRAs) of the Corporate Action Plan  
as at end 4<sup>th</sup> quarter 2020 (Achievement against the target of the quarter)**

**Goal 1 - Increase the Water Supply and Sanitation Coverage**

	Target 4 <sup>th</sup> quarter 2020		Status as at end 4 <sup>th</sup> quarter 2020		
	CP 2016 -2020	Revised*	Actual	Achievement (%)	
				CP 2016 -2020	Revised*
i. Water Supply Coverage (%)	60.00	55.00	53.10	88.50	96.55
ii. Water Supply Connections (Nos.)	2,849,978	2,577,760	2,560,237	89.83	99.32
iii. Piped sewerage connected coverage (%)	3.30	2.27	2.05	62.12	90.31
iv. Total implemented WSPs - Island wide (Nos.)	284	n.a.	281	98.94	n.a.

\* The Board directed to adjust to the realistic target (Board Decision No. 4130(h) made on Board Paper No. S/247/2018 – 855 in September 2018).

**Goal 2 - Improve Business Efficiency**

**Activities for Improve Business and Operational Efficiency**

**1. Reduction in Non Revenue Water (NRW)(%)**

Zones /RSCs / Regions	Target 4 <sup>th</sup> quarter 2020		Status as at end 4 <sup>th</sup> quarter 2020		
	CP 2016 -2020	Revised**	Actual	Achievement (%)	
				CP 2016 -2020	Revised**
<b>Colombo City</b>	<b>41.00</b>	<b>38.58</b>	<b>39.21</b>	<b>104.57</b>	<b>98.40</b>
Western Central (Excluding CMC)	16.00	21.29	21.65	73.90	98.33
Western Central (Overall)	32.10	28.84	30.00	107.00	96.13
Western South	23.50	22.11	23.75	98.95	93.10
Western North	21.50	17.27	18.57	115.78	93.02
Southern	24.50	25.32	24.42	100.33	103.67
Uva	17.60	23.22	26.21	67.15	88.59
Central	19.00	26.02	28.59	66.46	91.02
Sabaragamuwa	21.40	24.70	24.98	85.67	98.88
North Western	10.00	16.40	15.99	62.54	102.58
Eastern	10.00	17.49	18.00	55.56	97.15
North Central	13.00	18.55	18.71	69.48	99.12
Northern	17.00	23.07	23.62	71.97	97.69
<b>Island-wide</b>	<b>25.30</b>	<b>23.56</b>	<b>24.63</b>	<b>102.72</b>	<b>95.67</b>

\*\*1% NRW reduction Island-wide, from 2019 rate, (Board Decision No. 4203(g) made on Board Paper No. S/62/2020 – 871 in April 2020 under Operation Cost Reduction and Revenue Enhancement)

	Target end 2020	Status as at end 4th quarter 2020	
		Progress	Achievement (%)
<b>2. Energy Saving Activities</b>			
i. Completion of energy efficiency improvement projects (Nos.)	46	11	23.91
ii. Carrying out instrument audits for energy saving (Nos.)	20	36	180.00

### 3. Cash flow management activities

i. Collection efficiency (%)	100.00	100.0	100.00
<b>Accounts receivable (including disconnections) (Days)</b>			
ii. Domestic & Commercial	30	48	62.50
iii. Government	40	37	108.11

### 4. Promote ICT Activities

The NWSDB is ready to capitalize on improving the customer and corporate relationship, which will have a web-portal as a platform for improve its business to implementing comprehensive ICT development activities such as;

Activity	Present Status	Expected outcome
i. Improvement of Commercial Operation Management System	95.0%	Extend the existing system to incorporate the O&M functions related to Commercial Activities.
ii. Development of a software system for routine office functions	75.0%	A centralized solution for handling routine office activities to improve productivity of general office staff.
iii. Development of a Field Operations Mobile Application	75.0%	Develop and implement a mobile application for the field operations.
iv. Improvement of online e-services portal	75.0%	Improve the existing online services portal to facilitate customers to submit the online service requests with online payment facility.
v. Testing of NB-IoT (Narrow Band Internet of Things) solution for automating metering and facility monitoring	50.0%	Test a NB-IoT devices to implement a automated metering and billing system and facility monitoring system.
vi. Development of Loan Management System	100.0%	Develop and implement a software solution for the Finance Division to handle foreign loan repayment process.

### 5. Staff Training (No. of Employees Trained)

	Status as at end 4 <sup>th</sup> quarter 2020		
	Target	Actual	Achievement (%)
i. In-house Training	9,300	2,552	27.44
ii. In-country External Training	180	235	130.56
iii. Overseas Training	120	42	35.00

## 6. R&D activities

Research and Development Division of the NWSDB is continuing systematic, investigative and experimental activities that are performed for the purposes of acquiring new knowledge to efficient business and O&M activities such as;

Activity	Present Status	Expected outcome
i. Effective removal of iron from drinking water to comply with SLS 614 : 2013 standard in iron rich water.	100.0%	Optimizing iron removal in groundwater for better water quality standards and proper operation and maintenance of distribution systems with cost efficiency
ii. Monitoring and evaluation of CSLRGP water treatment units in Anuradhapura	25.0%	Utilization of water treatment facilities donated under China Sri Lanka Research Grant Project Anuradhapura for future advancement of NWS&DB
iii. Collaborative study on different ion removal plants with Ion Exchange India Limited (Indian company)	25.0%	Collaborative study on groundwater treatment specific to areas with Iron, Manganese, Arsenic, Fluoride and Hardness with installation plants for selected Rural Water Supply Schemes by Ion Exchange India Limited
iv. Reduction of algae levels in drinking water : Case study - Dry Aru Project, Kilinochchi	10.0%	Effective reduction of algae levels in drinking water - Dry Aru Project – Kilinochchi
v. Establishment of Energy Management system in Kethhena water treatment plant with M&E Section	20.0%	To get ISO certificate for Energy management system and continuation of system improvement. To introduce energy management concept to NWS&DB
vi. Study on existing overflowing and high yielding deep bore wells to use as water sources for development of community based rural water supply schemes within the Embilipitiya and Kolonna DS areas in Ratnapura District, Sri Lanka.	30.0%	Identification of groundwater recharge and potential areas for development of future water supply projects.
vii. Research proposal on Ground water Modeling in Attanagalla Oya River Basin.	35.0%	Ground water supply will be increased by identifying potential ground water storage and management of groundwater extraction points of the water supply
viii. Cost effective process parameter monitoring and logging system for Water Treatment Plant at Ambatale.	85.0%	To implement a low cost ultrasonic filter level detector, and customize the system as per user requirements.
ix. Management information system for Colombo and suburb areas for coordination and optimization of transmission line.	80.0%	To implement a Management Information System (MIS) to Ambathale Water Treatment Plant for optimizing the water distribution on short run and analyze the system behavior and forecast the demand.
x. Revise the specification of mastic materials used to protect ductile iron flange joints (Continuation).	90.0%	To prepare a specification for most economical and efficient mastic material to protect ductile iron flange joints
xi. Research proposal on Ground water potential and water quality related issues in Mannar island for effective water management.	35.0%	Identifying high Fe-Mn areas and identifying potential areas for sea water intrusions/identifying water quality related issues
xii. Cost effective process parameter monitoring and logging system for Water Treatment Plant at Ambatale	-	Knowledge sharing on sector improvements and practicing research culture in the NWSDB staff

### Goal 3 - Ensure Greater Accountability and Transparency

Regular internal checks and controls were carried out for ensure greater accountability and transparency of the NWSDB.

Considered field	Status as at end 4 <sup>th</sup> quarter 2020		
	Target	Actual	Achievement (%)
i. Water Supply & Sewerage Projects and Local Bank Funded Projects	20	7	35.00
ii. Construction Activities & Regional Development Constructions	5	2	40.00
iii. Water Safety	5	2	40.00
iv. Water Production and NRW	12	3	25.00
v. Commercial Operational	20	6	30.00
vi. Information Communication Technology	5	1	20.00
vii. Human Resources Development & Administration	8	9	112.50
viii. Operational Efficiency	10	13	130.00
ix. Research & Development Activities	2	1	50.00
x. Financial Management	25	17	68.00
xi. Procurement Compliances & Stores Management	12	15	125.00
xii. Assets Management	8	3	37.50
xiii. Assess of Internal Controls, Compliance & Investigation Activities	18	17	94.44
xiv. Review the Regional Progress of Corporate Plan, Activity Plan & Business Plan	5	1	20.00
xv. Rural Water & Ground Water and Other	5	1	20.00
<b>Total</b>	<b>160</b>	<b>98</b>	<b>61.25</b>

**Goal 4 - Ensure Safe Drinking Water Supply and Sanitation to Rural and Underserved Communities**

	<b>Activity</b>	<b>Implemented by</b>	<b>Present Status</b>	<b>Expected outcome</b>
i.	Develop criteria for the identification of needy rural and marginalized communities.	STRWS	In progress	Upgrade the living standards of rural and marginalized communities.
ii.	Carry out water quality surveillance program.	STRWS	In progress	Improve life expectation of the people in the country.
iii.	Carry out water quality surveillance program in liaison with the Department of Health and other stakeholders.	STRWS	40%	Implement Water Safety Plans (WSP) for rural water supply systems under WHO assistance Island-wide.
iv.	The Climate Resilient Integrated Water Management Project (CRIWMP) of Ministry of Mahaweli Development and Environment (MMDE) with the assistance of the United Nations Development Program (UNDP).	STRWS	50%	To conduct community Action Plan (CAP) programmes in 11 schemes out of 35 proposed total number of sub-projects under Output 2 of CRIWMP.
v.	A Memorandum of Understanding (MoU) was signed between the National Water Supply & Drainage Board (NWSDB) and Department of National Community Water Supply (DNCWS) with the assistance from the World Bank funded Project.	STRWS	100%	To provide technical support to the DNCWS as requested by community managed water supply schemes on a three phased Goal Set: Short term, Medium term & Long term until the CBOs become fully technically competent to handle major technical issues.
vi.	Water Supply & Sanitation Improvement Project (WaSSIP).	STRWS	75%	To work collaboratively with WaSSIP to improve water and sanitation services in small-scale schemes by organizing varied workshops and TOT (Training of Trainers) programmes.
vii.	Implementation of the identified Urban, Small Town, Rural and Estate Water Supply systems including sanitation needs.	STRWS	70%	To preparation of preliminary report and NPD Report and submit to the World Bank. Project proposal is to be finalized with the WaSSIP Project.
viii.	JICA funded RIDEP (Rural Infrastructure Development Project in Emerging Regions).	STRWS	50%	To sign the Memorandum of Understanding(MoU) between Project Management Unit of JICA funded RIDEP of the Ministry of Provincial Council and Local Government and National Water Supply & Drainage Board ( NWSDB) to extend technical cooperation for the proposed sub-projects in RIDEP.
ix.	Disaster Risk Reduction and Emergency Preparedness & Response Plan in WASH sector (UNICEF).	STRWS	10%	To prepare a Disaster Risk Reduction and Emergency Preparedness and Response plan.
x.	Study on existing overflowing and high yielding deep bore wells to use as water sources for development of community based rural water supply schemes within the Embilipitiya and Kolonna DS areas in Ratnapura District, Sri Lanka	R&D	30%	Identification of groundwater recharges areas and demarcates areas as groundwater to be protected.
xi.	Research proposal on Ground water Modeling in Attanagalla Oya River Basin	R&D	35%	Ground water supply will be increased by identifying potential ground water storage and management of groundwater extraction points of the water supply schemes using the applied model.
xii.	Research proposal on Ground water potential and water quality related issues in Mannar island for effective water management.	R&D	30%	Identifying high Fe-Mn areas and identifying potential areas for sea water intrusions/identifying water quality related issues.

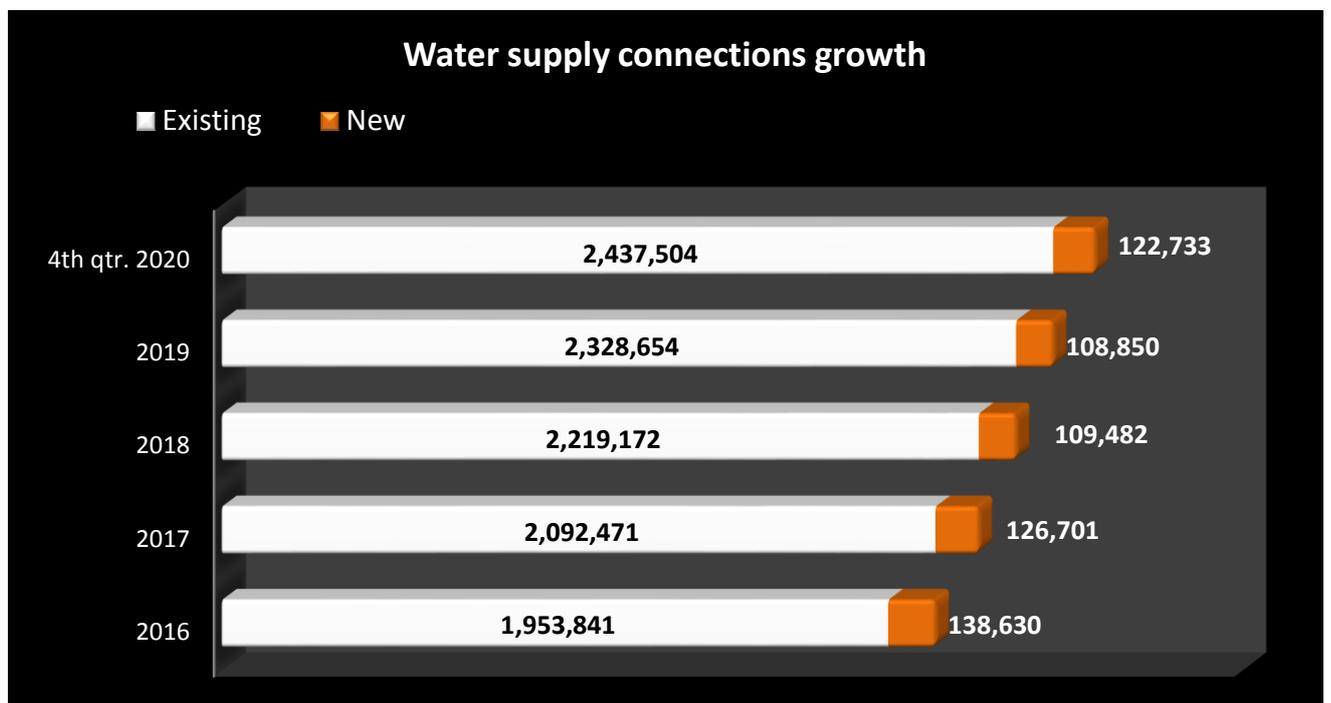
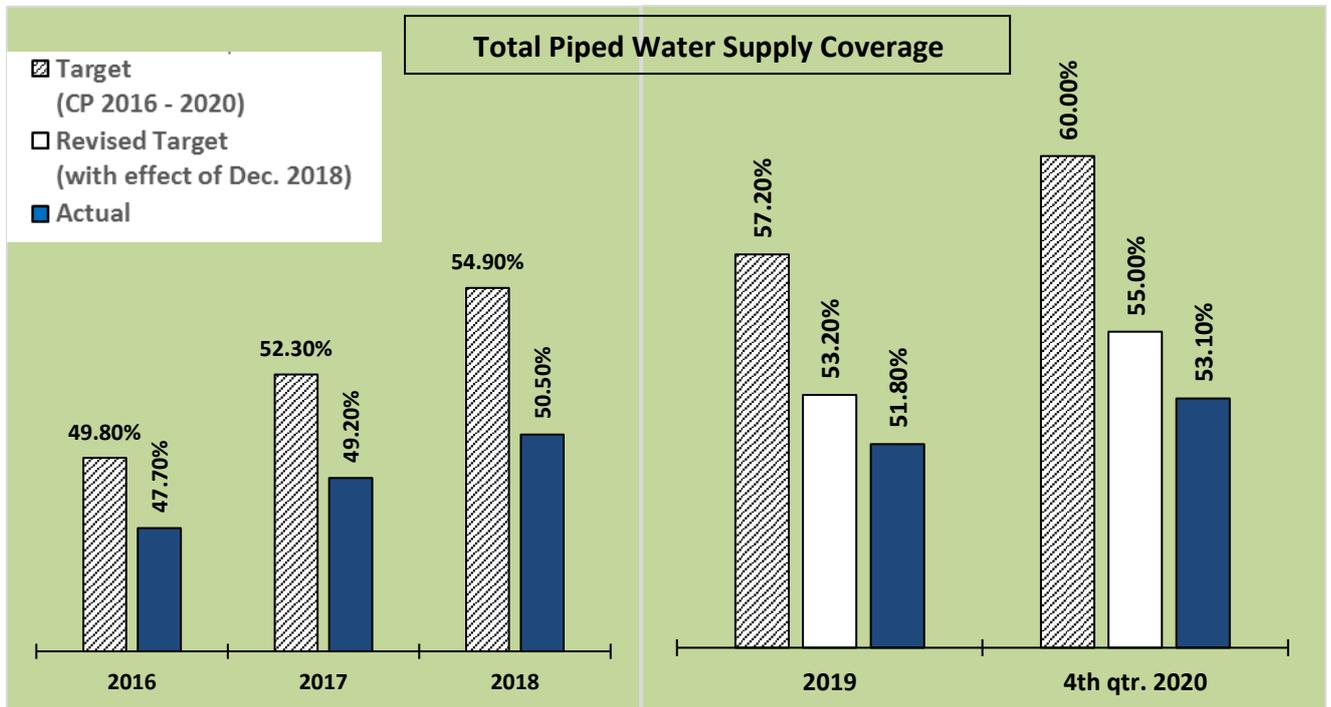
**SUMMARY OF PROGRESS STATUS ON THE CORPORATE ACTION PLANS  
AS AT END FOURTH QUARTER 2020**

**Goal 1 - Increase the Water Supply and Sanitation Coverage**

**Water Supply**

Total number of Water Supply Connections as at end of the 4<sup>th</sup> quarter 2020 was 2,560,237 as against the target of 2,577,760.

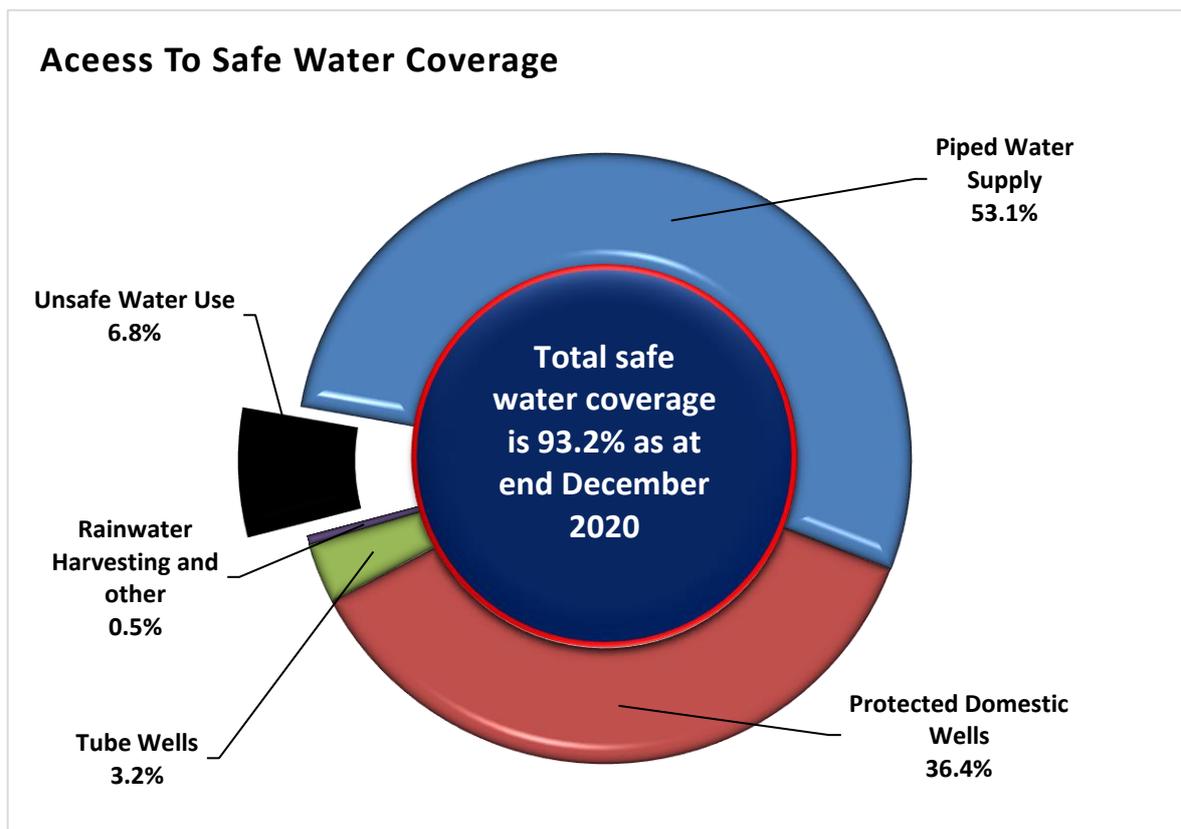
Total piped water connected coverage was 53.01% against the target of 55.00%.



25 Large scale donors funded ,11 Local Bank funded and 9 GOSL funded Water Sector Community Facilitation and Small & Medium Water Supply projects are in progress which are in various stages of implementation. These new/augmented & existing Water Supply Projects contributed towards the change in piped water supply coverage.

## Water Safety

NWSDB strive to make sure that all the water consumed by the community is safe. Under this context Water Safety Plans (WSPs) are being implemented with the WHO assistance. At present there are 281 urban WSPs implemented in various stages Island-wide by the RSCs DGM with assistance of WSP advisory unit established in Kandy.



## Sewerage

- Piped sewerage connected coverage is 2.05% while the target was 2.27%. The number of sewerage connections provided is not comparable with the population increase to show improvement.
- 25,420 connections were provided from the sewerage system maintained by the NWSDB whereas around 85,000 connections are being maintained by the CMC.
- 3 Large scale donor funded Sewerage Projects are in progress which are in various stages of implementation. These new/augmented & existing Sewerage Projects contributed towards the piped Sewerage connected coverage.

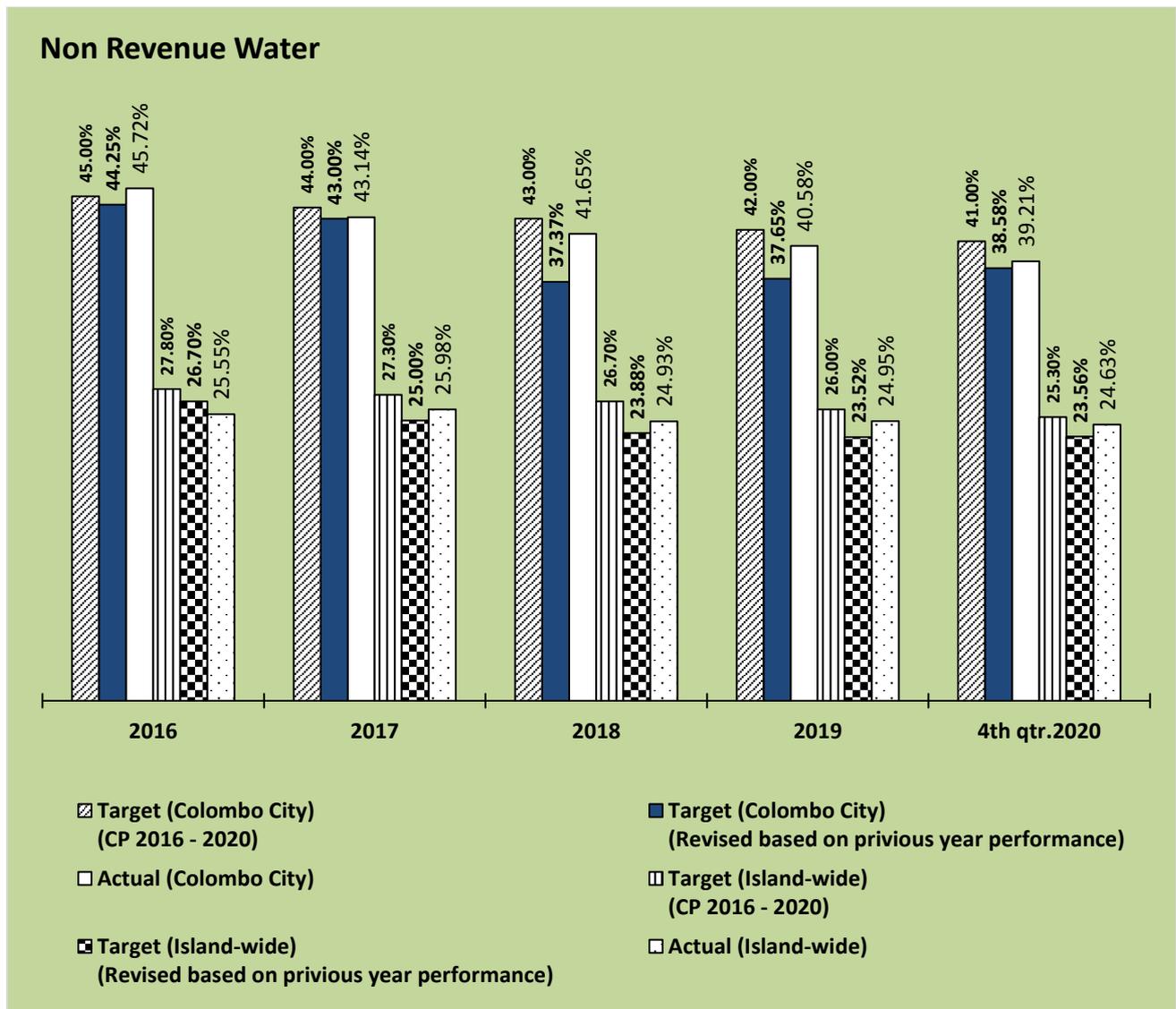
## Goal 2 - Improve business efficiency

Actions implemented under this Goal and their current statuses are presented in A – F below.

### A. Reduce NRW

Reduction of NRW is a very important strategy to improve business / operational efficiency. Details of NRW percentages island-wide and for Colombo City [CC] area are shown in a pictorial manner:

- NRW for island-wide and Colombo City have decreased by 0.32% and 1.37% respectively in compared with the December 2019 actual.



*NRW % targets for ensuring years are set based on the outcome of activities in previous year. The target for 2020 is therefore marginally lower than that specified in the Corporate Plan.*

NRW Reduction Activity		Unit	Island-wide Cumulative Performance as at end			
			1 <sup>st</sup> qtr. 2020	2 <sup>nd</sup> qtr. 2020	3 <sup>rd</sup> qtr. 2020	4 <sup>th</sup> qtr. 2020
1	Defective meters replaced	Nos.	27,758	48,567	71,070	74,802
2	Illegal connections detected	Nos.	324	478	818	1,164
3	Bulk meters replaced	Nos.	65	121	174	217
4	Bulk meters installed	Nos.	27	37	73	75
5	Leaks repaired	Nos.	52,174	94,512	144,897	160,162
6	Valves replaced	Nos.	111	154	233	257
7	Valves installed	Nos.	213	318	494	626
8	Pipe lines replaced	km	13.32	26.93	47.57	70.01
9	Night leak surveys	km	710.65	898.55	1,391.50	1,780.10
10	Meter reading audits	Nos.	2,685	4,043	4,992	5,359

## B. Improve R&D Activities

Research and Development Division of the NWSDB is continuing systematic, investigative and experimental activities that are performed for the purposes of acquiring new knowledge to efficient business and O&M activities such as;

- **Korean collaborative study on membrane filtration for small-scale water purification plants in Sri Lanka** –Report writing is completed. Review and recommendation have to be done.
- **Revise the specification of mastic materials used to protect ductile iron flange joints.** – Report writing is completed.
- **Establishing mechanism for water allocation** - Participation for preparation of operational model of Mahaweli basin is in progress and Inception report for Yatimahana has been received for review. Preparation of final report is in progress.
- **Water losses in domestic consumers and its impact to NWSDB, consumers and for the whole country** – Study completed.
- **Cost effective process parameter monitoring and logging system for Water Treatment Plant at Ambatale** - Market survey for features & identification of sensor installation were completed. Implement an ultrasonic level detector & software are in process.
- **Management information system for Colombo and suburbs areas for coordination and optimization of transmission line** - Parameter identification survey and work study for identify the study the process was completed. Implementation of software - 80% completed.

- **Establishment of Energy Management in Kethhena water treatment plant with M&E Section**  
- System evaluation for energy management and Preparation of report are in progress.
- **Distribution network model for Athurugiriya Area** - This study has been temporally suspended due to non-availability of resources.

### C. Operational efficiency

#### I. Energy Saving Activities

Projects are in several stages during the period under review		No. of projects in			
		1 <sup>st</sup> Qtr. '20	2 <sup>nd</sup> qtr.'20	3 <sup>rd</sup> Qtr.'20	4 <sup>th</sup> qtr.'20
1	Document Preparation stage	-	1	3	1
2	Document Evaluation stage	-	-	10	1
3	Tender calling stage	3	7	4	1
4	Tender Evaluation	-	-	10	3
5	Awarding stage	3	3	4	1
6	Commissioning stage	-	-	3	2
7	Pre shipment inspection	1	-	-	1
8	Installation Stage	5	7	7	11
9	Completed	-	-	5	11
	<b>Total</b>	<b>12</b>	<b>18</b>	<b>46</b>	<b>32</b>
10	Carrying out instrument audits for energy saving (Cumulative)	3	*	39	

\*No progress due to pandemic situation of the country

#### II. Cash flow management activities

Description		Status as at end			
		1 <sup>st</sup> Qtr. '20	2 <sup>nd</sup> qtr.'20	3 <sup>rd</sup> Qtr.'20	4 <sup>th</sup> qtr.'20
1	Collection efficiency (%)	90.00	77.00	84.53	100
<i>Accounts receivable (including disconnections) (Days)</i>					
2	Domestic & Commercial	30	57	48	48
3	Government	10	34	37	37
<i>Debt age details (Months)</i>					
4	Total arrears	1.44	1.70	1.40	1.40
5	Excluding Stand Post Dues	0.97	1.91	1.57	1.57
6	Excluding Stand Post & Disconnections Dues	0.40	1.34	1.26	1.26

- Consumers having Estimated Bills due to obstructions to the water meter - Awareness was made and allowed a period of about three months to remove the obstruction. They were informed of possible disconnection if no action was taken.
- Issue of disconnection orders regularly - Disconnection programmes were scheduled and disconnections were done according to the plan.

#### D. Improve Customer Satisfaction

	Description	Island-wide Cumulative Performance as at end			
		1 <sup>st</sup> qtr. 2020 (Nos.)	2 <sup>nd</sup> qtr. 2020 (Nos.)	3 <sup>rd</sup> qtr. 2020 (Nos.)	4 <sup>th</sup> qtr. 2020 (Nos.)
1	Complaints received	68,810	78,986	155,171	222,549
2	Complaints attended successfully	62,652	76,113	143,540	208,309
3	Schools Programmes carried out	20	20	20	20
4	Awareness programmes carried out	8	8	8	8
5	Teacher training programmes carried out	0	0	0	0
6	Awareness programmes carried out in other organizations such as Government Departments, Hotels, Hospitals, Police Stations etc.	9	9	9	9

- A system was established to monitor status of complaints through the call centre solution and all required mechanisms were made available in the call centre and are being practiced. Instead of the Consumer Grievances module, the call centre solution was enhanced to cover the required functions and this call centre solution is now in full operation.
- Customers are able to pay water dues at Cargills Food City Supermarkets, Keells Supermarkets, Abans Showrooms, Singer Mega outlets, Banks (HNB, Seylan, NSB, Commercial, Standard Chartered, Pan Asia, HSBC, Deutsche, Union, Nations Trust, City, NDB, BOC, People's, DFCC Vardana), Agency Post Offices and other collecting agents at their convenience. They can also pay through the NWSDB's web site using credit card.

#### E. Promote ICT Activities

The NWSDB is ready to capitalize on improving the customer and corporate relationship, which will have a web-portal as a platform for improve its business to implementing comprehensive ICT development activities such as;

- **Improvement of Commercial Operation Management System** – Extend the existing system to incorporate the O&M functions related to Commercial Activities are in progress.

- **Development of a software system for routine office functions** – Implementation of a centralized solution for handling routine office activities to improve productivity of general office staff is in progress.

- **Development of a Field Operations Mobile Application** – Develop and implement a mobile application for the field operations is in progress.

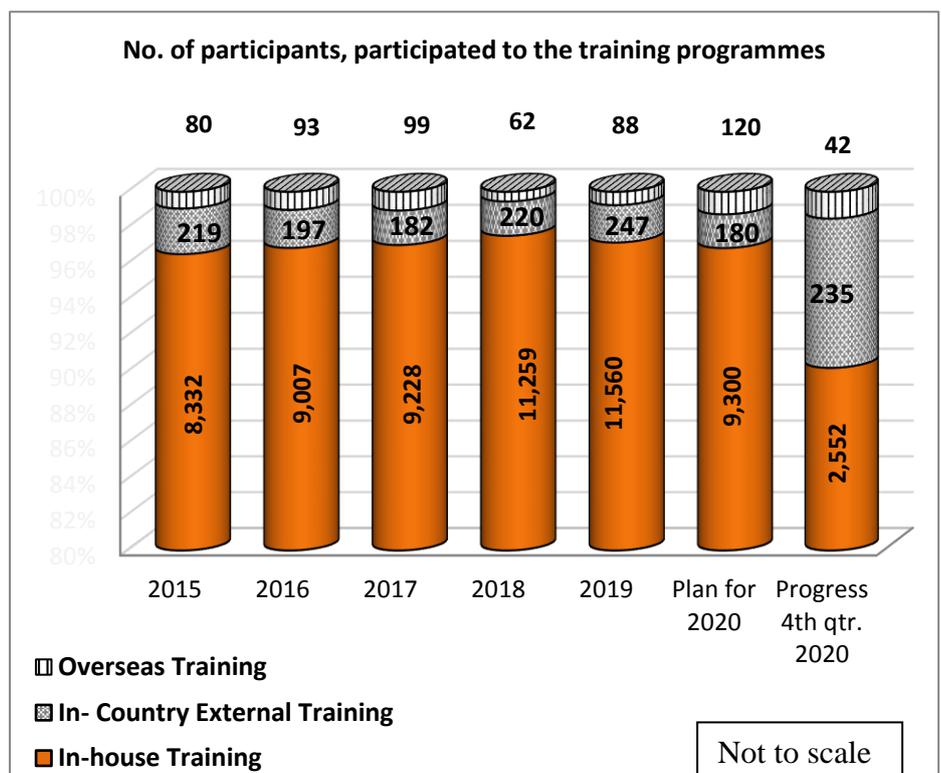
- **Improvement of online e services portal** - Improve the existing online services portal to facilitate customers to submit the online service requests with online payment facility is in progress.

- **NB-IoT (Narrow Band Internet of Things) solution for automating metering and facility monitoring** – Testing is in progress.

- **Development of Loan Management System** - Develop and implement a software solution for the Finance Division to handle foreign loan repayment process.

**F. Efficient HRD programme**

- Formulate and implement a Staff Training Plan based on Needs Assessment together with on-the-job training component - Provided opportunities to employees of many divisions to follow training programs according to the training plan.



### Goal 3 - Ensure greater accountability and transparency

- Evaluated the existing financial procedures and activities and identified the weak areas in financial administration; especially, loss of revenue, to prevent frauds etc. Commercial activities were evaluated and recommendations were forwarded to prevent weaknesses in internal controls.
- Checked the proper use of Commitment Register and Votes Ledger; Called for explanations on major variations from the budget.

- Regular internal checks and controls were carried out; as follows

	Considered field	Nos. of audits carried out as at end				Plan for 2020
		1st Qtr. '20	2nd Qtr.'20	3rd Qtr.'20	4th Qtr.'20	
i.	Water Supply & Sewerage Projects and Local Bank Funded Projects	2	2	6	7	20
ii.	Construction Activities & Regional Development Constructions	0	0	2	2	5
iii.	Water Safety	0	0	1	2	5
iv.	Water Production and NRW	0	1	1	3	12
v.	Commercial Operational	2	3	5	6	20
vi.	Information Communication Technology	0	0	1	1	5
vii.	Human Resources Development & Administration	2	2	8	9	8
viii.	Operational Efficiency	4	6	11	13	10
ix.	Research & Development Activities	1	1	1	1	2
x.	Financial Management	0	1	17	17	25
xi.	Procurement Compliances & Stores Management	0	1	12	15	12
xii.	Assets Management	1	1	2	3	8
xiii.	Assess of Internal Controls, Compliance & Investigation Activities	2	7	17	17	18
xiv.	Review the Regional Progress of Corporate Plan, Activity Plan & Business Plan	1	1	1	1	5
xv.	Rural Water & Ground Water and Other	0	0	1	1	5
	<b>Total</b>	<b>15</b>	<b>26</b>	<b>86</b>	<b>98</b>	<b>160</b>

## **Goal 4 - Ensure safe drinking water supply and sanitation to rural and underserved communities**

### **Small Towns, Rural Water & Sanitation Section activities to facilitate safe drinking water supply and sanitation to rural and underserved communities**

- **Carry out water quality surveillance program in liaison with the Department of Health and other stakeholders** – Water Safety Plans for rural water supply systems under WHO assistance are in progress various stages of implementation in the Island-wide.
- **The Climate Resilient Integrated Water Management Project (CRIWMP) of Ministry of Mahaweli Development and Environment (MMDE) with the assistance of the United Nations Development Program (UNDP)** - CRIWMP activities in sub project areas were carried out. Design & Procurement work and awarding are completed in most of the sub project areas. Ground water source investigation is almost completed in all the sub project areas. As the literacy improving campaign, Children's library in Thalakolawewa, which is a component of the 'model village' concept was ceremoniously opened to the public. Tree planting programme as a part of the model village concept also was carried out distributing trees to villagers.
- **A Memorandum of Understanding was signed between the National Water Supply & Drainage Board (NWSDB) and Department of National Community Water Supply (DNCWS) with the assistance from the World Bank funded Project** - Training materials were prepared as part of the community mobilization activities.
- **Water Supply & Sanitation Improvement Project (WaSSIP)** – Progress meetings, Financial training for CBOs, kick off meetings and community Action Plan 1 and 2 were carried out in sub project areas. NPD Format for the forth coming World Bank project proposed under additional financing was prepared and send for revision.
- **Implementation of the identified Urban, Small Town, Rural and Estate Water Supply systems including sanitation needs** – Preparation of preliminary report and NPD Report has been completed and submitted to the World Bank. Project proposal is to be finalized with the WaSSIP Project.
- **JICA funded RIDEP (Rural Infrastructure Development Project in Emerging Regions)** - Memorandum of Understanding was signed between Project Management Unit of JICA funded RIDEP of the Ministry of Provincial Council and Local Government and National Water Supply & Drainage Board to extend technical cooperation for the proposed sub-projects in RIDEP.

- **Disaster Risk Reduction and Emergency Preparedness & Response Plan in WASH sector (UNICEF)** - Prepare a Disaster Risk Reduction and Emergency Preparedness and Response plan is in progress

**Research & Development Activities to facilitate safe drinking water supply and sanitation to rural and underserved communities**

- **Study of existing overflowing and high yielding deep bore wells to use as water sources for development of water Supply Schemes within the Embilipitiya and Kolonna DS areas in Ratnapura District, Sri Lanka** - Desk studies (collecting existing data & information - Secondary data collection) and initial field visit was completed. Water samples were collected for chemical and isotope analysis. Research is temporary suspended due to funding problem.
- **Groundwater potential and water quality related issues in Mannar Island for effective water management** - Desk studies (collecting existing data & information - Secondary data collection), initial field visit and 50 nos. of water samples were collected for isotope and water quality analysis were completed. This study has been temporally suspended due to fund problem for food and lodging. This study has been temporary suspended due to funding problem.
- **Groundwater modeling in Attanagalla Oya river basin** - Desk studies was completed. Purchasing Mod Flow and field conductivity meter in progress. Water level collected at all locations in the Attanagalla oya river basin.
- **Study and monitoring of RO plants and caring out measures to improve the system** – Study completed and Preparation of final report is in progress.
- **Pilot study to determine the most appropriate dose and the dosing point for applying Powder Activated Carbon (PAC) adsorption treatment at Kurunegala Water Treatment Plant & Madu WSS** – Study completed.
- **Study on supply of potable water for cooking and drinking purpose** – Study completed and handed over to relevant RSCs.
- **Monitoring of Anuradhapura advanced water treatment units in CKDu prevailing areas** – Study completed and handed over to RSC.
- **Monitoring the performance of iron removal plant installed by Ion Exchange India (IEI) Limited** - MOU signed and identification of suitable site is in progress.