



## *SDG 6 IWRM Support Programme*

# Stage 1

# Stakeholder Consultation Report

SDG 6.5.1, degree of implementation of IWRM

## Bulgaria

15 July 2020



Prepared by:

Scientific-Technical Union of Water Affairs in Bulgaria

## Stakeholder Consultation Report for SDG 6.5.1

### Executive Summary

The process of updating the SDG 6.5.1 questionnaire took place in June-July 2020 in a situation of COVID-19 pandemic. Due to the increased health risk and anti-epidemic measures imposed since 1 July 2020, the two-day workshop organized by GWP-Bulgaria to be held in Rila Hotel, Sofia, on 8-9 July 2020 was cancelled. In the new epidemiological circumstances elected the Task Team of 11 members incl. Focal Point (FP) and a representative of the International Cooperation Department at the Ministry of Environment and Water substituted the two-day workshop with the following activities:

- The translated SDG 6.5.1 questionnaire was placed on the websites of Scientific-Technical Union of Water Affairs in Bulgaria ([www.stuwa.org](http://www.stuwa.org)), Bulgarian Water Association ([www.bwa-bg.com](http://www.bwa-bg.com)) and Bulgarian Academy of Sciences ([www.nnpos.wordpress.com](http://www.nnpos.wordpress.com)), as well as a leaflet with information on how to fill in and submit the questionnaire.
- The SDG 6.5.1 questionnaire and the leaflet were sent electronically and by mail to government institutions, district administrations, municipalities, institutes, universities, private water companies, water associations, NGOs, water experts, and other stakeholders.
- With 20 people participating the SDG 6.5.1 workshop was held on July 7, 2020 at Climate, Atmosphere and Water Research Institute - Bulgarian Academy of Sciences in compliance with all preventive COVID-19 requirements.
- The small group of students (6 persons) from Section of Young Professionals in the Water Sector – Bulgarian Water Association filled the questionnaire (except for the funding section) on July 8, 2020, taking into account the lack of sufficient knowledge about IWRM among young people.
- In addition, 22 interviews were conducted with stakeholders who did not participate in SDG 6.5.1 workshops.
- After summarizing and analyzing the completed questionnaires and personal interviews, as well as the recommendations of workshop's participants, the online SDG 6.5.1 conference was organised on July 9, 2020 (32 participants) to finalise the scoring and recommendations for improving the implementation of IWRM at national and basin level. There is no significant difference to the previous stakeholders consultation survey for SDG 6.5.1 on the IWRM implementation in Bulgaria, reported on 15March2018.

Section	Stakeholders consultation survey for SDG 6.5.1	
	15 March 2018	15 July 2020
Section 1: Enabling Environment	62	77
Section 2: Institutions and Participation	65	72
Section 3: Management Instruments	62	70
Section 4: Financing	52	58
<b>Indicator 6.5.1 score = Degree of IWRM implementation (0-100)</b>	<b>60</b>	<b>69</b>

Representatives of the following organizations participated in discussions of SDG 6.5.1 survey: Ministry of Environment and Water (Water Management Directorate and International Cooperation Department); Danube River Basin Directorate; Black Sea Basin Directorate; East Aegean River Basin Directorate; West Aegean River Basin Directorate; Bulgarian Water Supply&Sanitation Holding; Bulgarian Water Association; EUROSTART 2008 Ltd; Waterengineering Ltd; BULAQUA Standart Ltd; VIK consulting Ltd; Sofia Consulting Group Ltd; Devodi Ltd; Arcadia Engineering Ltd; One Try

Production Ltd; Info Business Network Ltd; Consult Engineering -2-JMC Ltd; OIP1 Ltd; SOLVO Ltd; Municipality of Sofia capitale; Municipality of Gorna Oryahovitz; Bulgarian Academy of Sciences (Climate, Atmosphere and Water Research Institute; Economic Research Institute; National Institute of Geophysics, Geodesy&Geography; Institute of Geology; Institute of Mechanics; Institute of Plant Physiology and Genetics); Institute of Soil Science, Agrotechnologies and Plant Protection "Nikola Poushkarov"; Agrobiointitute; University of National and World Economy; Todor Kableskov Higher Transport School; University of Architecture, Civil Engineering and Geodesy (Department of Water Supply, Sewerage, Water and Wastewater Treatment at Faculty of Hydrotechnics); Trakiya University (Section of Applied Ecology at Agricultural Faculty; Dept. "Industrial Business and Entrepreneurship" at Faculty of Economics); Sofia University "Kliment Ohridsky" (Biology Faculty); Section of Young Professionals in the Water Sector – Bulgarian Water Association; Club "Economika 2000"; Scientific-Technical Union of Water Affairs in Bulgaria; Association "Global Water Partnership-Bulgaria"; Water Affairs magazine and bTV.

After extensive discussions all participants in the SDG 6.5.1 survey, supported the view that the challenges for achieving the goals by 2030 depend on a good match of political and civic interest and activities and coordinated efforts in the IWRM implementation. Targeted training can be beneficial in this respect. Currently, construction and modernization of wastewater treatment plants, which are important for the protection of surface water quality, is given high priority, but this is not reported in the indicator SDG 6.5.1. The completed country survey instrument for SDG Indicator 6.5.1 can be found in a separate document (file: SDG 6.5.1 survey \_Bulgaria\_2020 which will be sent by the SDG 6.5.1 FP – Mrs Violeta Roiatchka, Water Managemet Directorate at Ministry of Environment and Water (vroyachka@moew.government.bg, + 359 2 9406561) in compliance with all national administrative procedures).

### 1. Conclusions from facilitated discussions on Section 1: Enabling Environment

1.	Section 1: Enabling Environment	Stakeholders Consultation Report SDG 6.5.1	
		15 March 2018	15 July 2020
1.1.a	National water resources <b>policy</b> , or similar	60	70
1.1.b	National water resources <b>law(s)</b>	60	70
1.1.c	National integrated water resources management (IWRM) <b>plans</b> , or similar	60	70
1.2.a	<b>Sub-national</b> water resources <b>policies</b> or similar	40	n/a
1.2.b	<b>Basin/aquifer management plans</b> or similar, based on IWRM	80	90
1.2.c	<b>Arrangements for transboundary water management</b>	70	80
1.2.d	<b>Sub-national</b> water resources <b>regulations</b> (laws, decrees, ordinances or similar)	n/a	80
	<b>Average Scores</b>	<b>62</b>	<b>77</b>

- a) What are the main challenges to progress in the country?  
IWRM knowledge and priority setting by different stakeholders.
- b) How can the main challenges be addressed?  
Better communication with stakeholders and specialised seminars for key actors.
- c) At the question level or in general, what is the perceived rate of progress, and what is the likelihood of reaching High or Very high implementation by 2030? Is there a need for national (interim) target setting (which may be taken up in more detail in Stage 2 of the SDG 6 IWRM Support Programme)?

Achieving the 2030 targets is a challenge because of the ongoing process of meeting the requirements of the Urban Wastewater Treatment Directive, the process of developing EU legislation on water reuse, the need to give more prominent focus on the role of agriculture in terms of water protection and use.

d) What are the major points stakeholders do not agree on and why?

It is difficult to achieve general agreement on the prioritization of water uses. Undoubtedly, the law gives priority to the use of water resources for drinking and household needs but some stakeholders have a different opinion which reflects their standpoint.

e) Other interesting points of note from the discussion?

Unfortunately, a considerable number of the addressees replied that they did not have enough information about IWRM, but expressed a desire to be informed about the 2020 SDG 6.5.1 report.

## 2. Conclusions from facilitated discussions on Section 2: Institutions and Participation

2.	Section 2: Institutions and Participation	Stakeholders Consultation Report SDG 6.5.1	
		15 March 2018	15 July 2020
2.1.a	National <b>government authorities</b> for leading IWRM implementation	80	80
2.1.b	<b>Coordination between</b> national government authorities representing <b>different sectors</b> on water resources, policy, planning and management	80	80
2.1.c	<b>Public participation</b> in water resources, policy, planning and management at national level	60	70
2.1.d	<b>Private sector participation</b> in water resources development, management and use	60	60
2.1.e	<b>Developing IWRM capacity</b>	40	60
2.2.a	<b>Basin/aquifer level organizations</b> for leading implementation of IWRM	80	80
2.2.b	<b>Public participation</b> in water resources, policy, planning and management at the <b>local level</b>	60	60
2.2.c	<b>Participation of vulnerable groups</b> in water resources planning and management	-	40
2.2.d	<b>Gender included in laws/plans or similar</b> within water resources management	n/a	100
2.2.e	<b>Organizational framework for transboundary water management</b>	60	80
2.2.f	<b>Sub-national authorities</b> for leading IWRM implementation	n/a	80
	<b>Average Scores</b>	<b>65</b>	<b>72</b>

a) What are the main challenges to progress in the country?

Better inter-institutional coordination.

b) How can the main challenges be addressed?

Improving coordination between institutions.

Better communication in society and targeted training of key actors.

- c) At the question level or in general, what is the perceived rate of progress, and what is the likelihood of reaching High or Very high implementation by 2030? Is there a need for national (interim) target setting (which may be taken up in more detail in Stage 2 of the SDG 6 IWRM Support Programme)?

A relatively accurate response should take into account the conclusions of the River Basin Management Plans 2022-2027 once they are adopted.

- d) What are the major points stakeholders do not agree on and why?

The issue of vulnerable groups involvement was difficult to give a score to with a great difference between the scores given by different participants.

### 3. Conclusions from facilitated discussions on Section 3: Management Instruments

3.	Section 3: Management Instruments	Stakeholders Consultation Report SDG 6.5.1	
		15 March 2018	15 July 2020
3.1.a	<b>National monitoring of water availability</b> (includes surface and/or groundwater, as relevant to the country).	60	70
3.1.b	<b>Sustainable and efficient water use management</b> from the national level, (includes surface and/or groundwater, as relevant to the country).	40	60
3.1.c	<b>Pollution control</b> from the national level.	80	80
3.1.d	<b>Management of water-related ecosystems</b> from the national level.	60	60
3.1.e	<b>Management instruments to reduce impacts of water-related disasters</b> from the national level.	80	80
3.2.a	<b>Basin management instruments</b>	60	80
3.2.b	<b>Aquifer management instruments</b>	60	70
3.2.c	<b>Data and information sharing within countries</b> at all levels	60	60
3.2.d	<b>Transboundary data and information sharing between countries</b>	60	70
	<b>Average Scores</b>	<b>62</b>	<b>70</b>

- a) What are the main challenges to progress in the country?

Self-critical view and capacity to apply an appropriate combination of management instruments.

- b) How can the main challenges be addressed?

More funding and better planning and coordination among stakeholders.

- c) At the question level or in general, what is the perceived rate of progress, and what is the likelihood of reaching High or Very high implementation by 2030? Is there a need for national (interim) target setting (which may be taken up in more detail in Stage 2 of the SDG 6 IWRM Support Programme)?

Exchange on IWRM good practices between countries in EU in the context of RBMP and FRMP implementation could be beneficial.

- d) What are the major points stakeholders do not agree on and why?

Formats, level of detail and availability of information on water resources seems to be an issue for some stakeholders due to particular interest, i.e. scientists.

#### 4. Conclusions from facilitated discussions on Section 4: Financing

4.	Section 4: Financing	Stakeholders Consultation Report SDG 6.5.1	
		15 March 2018	15 July 2020
4.1.a	<b>National budget</b> for water resources <b>infrastructure</b> (investment and recurrent costs)	40	50
4.1.b	<b>National budget</b> for <b>IWRM elements</b> (investments and recurrent costs)	60	60
4.2.a	<b>Sub-national or basin budgets</b> for water resources <b>infrastructure</b> (investment and recurrent costs)	40	50
4.2.b	<b>Revenues</b> raised for IWRM elements	60	60
4.2.c	<b>Financing for transboundary cooperation</b>	60	80
4.2.d	<b>Sub-national or basin budgets</b> for <b>IWRM elements</b> (investment and recurrent costs)	-	50
	<b>Average Scores</b>	<b>52</b>	<b>58</b>

- a) What are the main challenges to progress in the country?  
Increasing investments in certain areas, e.g. WWTPs could contribute significantly to IWRM implementation.
- b) How can the main challenges be addressed?  
National funding complemented by European funding and public-private partnership.
- c) At the question level or in general, what is the perceived rate of progress, and what is the likelihood of reaching High or Very high implementation by 2030? Is there a need for national (interim) target setting (which may be taken up in more detail in Stage 2 of the SDG 6 IWRM Support Programme)?  
More investment in creating expertise and competencies in key stakeholders.

#### 5. Next steps

The recommended next steps are related to further improving coordination between responsible institutions for IWRM implementation and better involvement of all stakeholders at the national and local levels. One way to achieve progress is to learn from decision-makers and all interested parties with special attention to young people about best IWRM practices with the greatest positive ecological impact at affordable financial costs for the population. IWRM trainings are an essential lever for achieving the goals of SDG 6.5.1 by 2030.

#### Barriers, enablers and next steps for furthering IWRM implementation

- 1) What are the main challenges/barriers to progress of IWRM implementation in the country?
  - Political maturity and knowledge on the subject
  - Self-critical view and readiness to solve problems
  - Better inter-institutional coordination
  - The management of the dams is scattered in various institutions and organizations
- 2) What are the main next steps to overcome challenges and further IWRM implementation?
  - Better communication in society and specialized seminars for key actors
  - Improving coordination between institutions
  - Better planning and control over spending
  - More investment in creating expertise and competencies

3) What were the main points of difference in stakeholder opinion in answering the survey questions?

- There is no general agreement on the prioritization of water users. Undoubtedly, priority use of water resources for drinking and household needs is taken into account, but it is not always observed. The development of a national IWRM program in line with changing climatic conditions and existing viral pandemics will reduce cross-sectoral conflicts.
- Another problem is access to all information on water resources for which budget funds have been spent. The published summary information does not allow water experts to use it, and citizens are not informed about the current state of a particular water resource.

4) Additional comments

We are unlikely to achieve the 2030 targets because we are significantly behind in meeting the European requirements of the Urban Wastewater Treatment Directive, and the topic of reusing treated wastewater is little known. The role of agriculture in terms of water protection and use seems to stay away from IWRM. To overcome the backlog, training of decision-makers and stakeholders in the application of innovative approaches and methods of integrated water resources management in conditions of droughts/floods and pandemics must begin.

#### Priority water resource challenges

Water resource challenges	Level of difficulty associated with addressing the challenge				Comments
	Low	Medium	High	Not relevant	
<b>Water uses</b>					
Water for agriculture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IWRM is a part of Irrigation Strategy but it is not implemented. Small water use for irrigation due to the high cost of dam water.
Water for domestic use	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	High losses of natural water due to outdated infrastructure and lack of control.
Water for industry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Limited introduction of water cycles in industry.
Water for energy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Issued permits for water quantities of small hydropower plants above the flow of water resources.
Water for ecosystems/ environment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The ecological minimum is not constantly monitored after the construction of very small hydropower plants. There is no methodology for ecological runoff.
Water for growing cities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Problems in the holiday season.
<b>Threats to the resource</b>					
Water scarcity / over-abstraction (surface)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The problem is not the lack of water resources, but the poor infrastructure and operation.

Water scarcity / over-abstraction (groundwater)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Local shortage due to the natural origin of pollution - pH, uranium, manganese, chromium and others. There is no model for water management at significant groundwater pressure.
Water quality / pollution (surface)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There are not enough facilities for treatment of inflowing wastewater and control of emergency discharges.
Water quality / pollution (groundwater)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There are no suitable treatment facilities for local pollution.
Water-related ecosystem degradation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water-related ecosystem loss	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Death of fish due to poorly constructed fish passages.
<b>Threats to people and economic activity</b>					
Floods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The existing mixed sewerage system causes flooding of buildings during torrential rains. There are no spill zones for high wave absorption.
Droughts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is no national program for integrated water resources management in drought and pandemic conditions.
Coastal vulnerability	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landslides and uncontrolled construction on the shores of the Black Sea, rivers and dams.
Conflicts over water resources	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There are conflicts between sectors during water crises.

## ANNEXES

### Annex 1: Lists of Task Team, Participants and Interviewees







#### Annex 1.1: List of Task Team

No	First name	Family name	Institution	Position	Email and phone
1	Violeta	Roiatchka	Water Management Directorate at Ministry of Environment and Water <a href="http://www.moew.government.bg">www.moew.government.bg</a>	State Expert, FP for SDG 6.5.1	<a href="mailto:vroyachka@moew.government.bg">vroyachka@moew.government.bg</a> + 359 2 940 65 61
2	Maria	Timova - Vladimirova	International Cooperation Dept., Ministry of Environment and Water <a href="http://www.moew.government.bg">www.moew.government.bg</a>	Junior Expert, Desk Officer Sustainable Development Issues and UN Agencies	<a href="mailto:mvladimirova@moew.government.bg">mvladimirova@moew.government.bg</a> + 359 2 940 6118
3	Ivan	Ivanov	Bulgarian Water Supply&Sanitation Holding <a href="http://www.mrrb.government.bg">www.mrrb.government.bg</a>	President of SC	<a href="mailto:ivijejan@abv.bg">ivijejan@abv.bg</a> + 359 882 371 239
4	Dimitar	Mihalkov	Bulgarian Water Association (BWA) <a href="http://www.bwa-bg.com">www.bwa-bg.com</a>	International relation	<a href="mailto:d.mihalkov@bwa-bg.com">d.mihalkov@bwa-bg.com</a> + 359 2 963 26 69
5	Radoslav	Tonev	Section of Young Professionals in the Water Sector -Bulgarian Water Association <a href="http://www.bwa-bg.com">www.bwa-bg.com</a>	Section coordinator	<a href="mailto:radoslaw_tonew@abv.bg">radoslaw_tonew@abv.bg</a> + 359 889 285 324
6	Margarita	Syarova	Scientific Technical Union of Water Affairs in Bulgaria <a href="http://www.stuwa.org">www.stuwa.org</a>	General Secretary	<a href="mailto:ntsvd@abv.bg">ntsvd@abv.bg</a> + 359 2 988 5303
7	Emil	Bournaski	Water Department at Climate, Atmosphere and Water Research Institute- Bulgarian Academy of Sciences <a href="http://www.cawri-bas.eu">www.cawri-bas.eu</a>	Professor, Ph.D.	<a href="mailto:bournaski@netscape.net">bournaski@netscape.net</a> + 359 899 966 121
8	Galina	Dimova- Boykinova	Dept. of Water Supply, Sewerage, Water and Wastewater Treatment at Faculty of Hydrotechnics-University of Architecture, Civil Engineering and Geodesy <a href="http://www.uacg.bg">www.uacg.bg</a>	Associate Professor	<a href="mailto:galinamdimova@gmail.com">galinamdimova@gmail.com</a> + 359 886 209 974
9	Milkana	Mochurova	Regional and Sector Economics Department at Economic Research Institute – Bulgarian Academy of Sciences <a href="http://www.iki.bas.bg">www.iki.bas.bg</a>	Research Fellow	<a href="mailto:m.mochurova@iki.bas.bg">m.mochurova@iki.bas.bg</a> + 359 889 544 430
10	Avram	Radev	Waterengineering Ltd	President (former deputy minister of environment and water)	<a href="mailto:watereng@abv.bg">watereng@abv.bg</a> + 359 889 992 200
11	Galia	Bardarska	GWP-Bulgaria	President	<a href="mailto:galiabardarska@gmail.com">galiabardarska@gmail.com</a> + 359 887 602 672

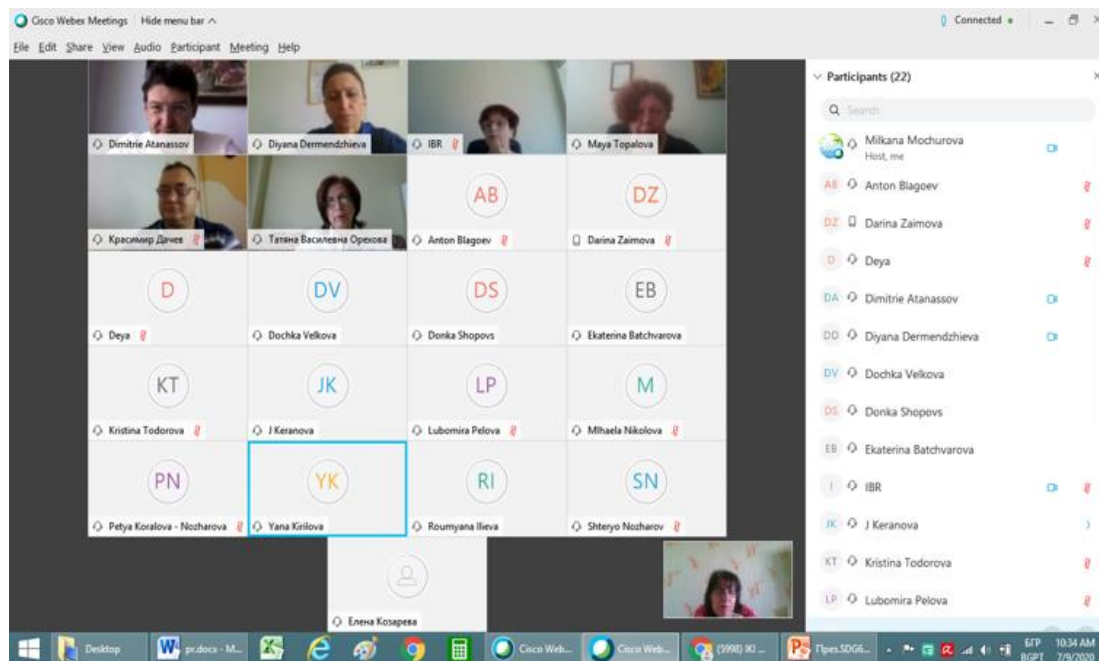
**Annex 1.2: List of participants, SDG 6.5.1 workshop, July 7, 2020**

<b>No</b>	<b>First name</b>	<b>Family name</b>	<b>Organization</b>	<b>Position</b>	<b>Email address</b>
1	Albena	Vatralova	Climate, Atmosphere and Water Research Institute – Bulgarian Academy of Sciences (CAWRI-BAS)	Scientific Secretary, Assoc.Prof.	albenav@cawri.bas.bg
2	Aleksey	Benderev	Institute of Geology – Bulgarian Academy of Sciences	Professor	alekseybenderev@yahoo.com
3	Borisa	Mileva	Biology Faculty – Sofia University “Kliment Ohridsky”	Student	bobimileva@gmail.com
4	Dessislava	Kostova	CAWRI-BAS	Assistant Professor	kostova_dessislava@yahoo.com
5	Ekaterina	Batchvarova	CAWRI-BAS	Director, Professor	ekbatch@cawri.bas.bg
6	Emil	Bournaski	CAWRI-BAS	Professor	bounaski@aim.com
7	Galia	Bardarska	Association “Global Water Partnership-Bulgaria”	Chair, Associate Professor	galibardarska@gmail.com
8	Georgi	Belev	CAWRI-BAS	Assistant	gbelev@abv.bg
9	Georgi	Vasilev	One Try Productions Ltd	IT specialist	onetryproductions@gmail.com
10	Gergana	Takucheva	CAWRI-BAS	Assistant	gergana29@mail.bg
11	Guergana	Bournaska	Info Business Network Ltd	IT specialist	geridzen@abv.bg
12	Kremen	Bournaska	One Try Productions Ltd	IT specialist	bournaska@gmail.com
13	Maria	Temelkova	National Institute of Geophysics, Geodesy and Geography – Bulgarian Academy of Sciences	Assistant	mondaybg@mail.bg
14	Olga	Nitcheva	Institute of Mechanics – Bulgarian Academy of Sciences	Associate Professor	olganitcheva@yahoo.com
15	Petar	Gerginov	Institute of Geology – Bulgarian Academy of Sciences	Associate Professor	p.gerginov@mail.bg
16	Petya	Ivanova-Radovanska	CAWRI-BAS	Associate Professor	p.radovanska@gmail.com
17	Polya	Dobrev	Institute of Mechanics - Bulgarian Academy of Sciences	Associate Professor	polya2006@yahoo.com
18	Tanya	Trenkova	National Institute of Geophysics, Geodesy and Geography – Bulgarian Academy of Sciences	Research Fellow	trenkova@mail.bg
19	Tzvetanka	Bournaska	Info Business Network Ltd	Mathematician	ibn@dir.bg
20	Yavor	Chapanov	CAWRI-BAS	Deputy Director, Professor	yavor.chapanov@gmail.com

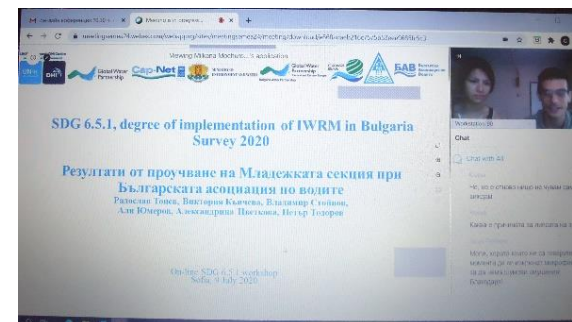
**Annex 1.3: List of participants, online Youth SDG 6.5.1 workshop, July 8, 2020**

№	Photo, first and family name	Organization	Position	Email address	
1	 <p>Radoslav Tonev</p>	<p>Section of Young Professionals in the Water Sector - Bulgarian Water Association</p>	Section coordinator	radoslaw_tonew@abv.bg	
2	 <p>Viktoria Kuncheva</p>				viktoria.kuncheva@gmail.com
3	 <p>Ali Yumerov</p>				yu_merov@icloud.com
4	 <p>Alexandrina Tsvetkova</p>			Member of Coordination Council	alexandrinatsvetkova@abv.bg
5	 <p>BAV БЪЛГАРСКА АСОЦИАЦИЯ ПО ВОДИТЕ СЕКЦИЯ НА МЛАДИТЕ ПРОФЕСИОНАЛИСТИ ВЪВ ВОДНИЯ СЕКТОР</p> <p>Vladimir Stoynov</p>				pvs.97@abv.bg
6	 <p>BAV БЪЛГАРСКА АСОЦИАЦИЯ ПО ВОДИТЕ СЕКЦИЯ НА МЛАДИТЕ ПРОФЕСИОНАЛИСТИ ВЪВ ВОДНИЯ СЕКТОР</p> <p>Peter Todorov</p>				peter_v@gyuvetch.bg

#### Annex 1.4: List of participants, online SDG 6.5.1 workshop, July 9, 2020



Screen at the beginning of the online SDG 6.5.1 workshop



Radoslav Tonev and Victoria Kuncheva



Violeta Roiatchka and Maria Timova – Vladimirova

No	First name	Family name	Organization	Position	Email address
1	Anton	Blagoev	University of National and World Economy	Ph. D. student	to_ni_93@abv.bg
2	Darina	Zaimova	Dept. "Industrial Business and Entrepreneurship", Faculty of Economics, Trakya University, Stara Zagora town	Associate Professor, Ph.D.	dzaimova@gmail.com
3	Diana	Dermendjieva	Section of Applied Ecology - Agricultural Faculty at Trakya University, Stara Zagora town	Assistant professor	d.dermendjieva@abv.bg
4	Dimitar	Atanassov	Arcadia Engineering Ltd	Manager	dimitrie@arcadiabg.com

<b>No</b>	<b>First name</b>	<b>Family name</b>	<b>Organization</b>	<b>Position</b>	<b>Email address</b>
5	Dochka	Velkova	Club "Economika 2000"	Economist	docha@club2000.org
6	Donka	Shopova	Climate, Atmosphere and Water Research Institute-Bulgarian Academy of Sciences	Assistant, Ph.D.	dshopova@gmail.com
7	Ekaterina	Batchvarova	Climate, Atmosphere and Water Research Institute-Bulgarian Academy of Sciences	Director	ekbatch@gmail.com
8	Elena	Kozareva	Sofia Municipality	Expert	elena.kozareva@sofia.bg
9	Emil	Bournaski	Climate, Atmosphere and Water Research Institute-Bulgarian Academy of Sciences	Professor, Ph.D,	bournaski@netscape.net
10	Galia	Bardarska	Association "GWP-Bulgaria"	President, Assoc. Prof., Ph.D.	galiabardarska@gmail.com
11	Galina	Dimova-Boykinova	Dept. of Water Supply, Sewerage, Water and Wastewater Treatment at Faculty of Hydrotechnics-University of Architecture, Civil Engineering and Geodesy	Associate Professor, Ph.D.	galinamdimitova@gmail.com
12	Gergana	Georgieva	East Aegean River Basin Directorate, Plovdiv town	Chief expert	bd_plovdiv@earbd.bg
13	Jasmina	Keranova	Black Sea Basin, Varna town	Director of Department	bdvarna@bsbd.org
14	Krasi	Kolcheva	Climate, Atmosphere and Water Research Institute-Bulgarian Academy of Sciences	Chief Assistant, Ph.D.	kolchevakrasi@abv.bg
15	Krasimir	Dachev	Devodi Ltd	President	krdachev@solvo.bg
16	Kristina	Todorova	University of National and World Economy	Chief Assistant, Ph.D.	ktodorova@unwe.bg
17	Lubomira	Pelova	Danube River Basin Directorate, Pleven town	Chief Expert	dunavbd@bDDR.org
18	Maria	Timova - Vladimirova	International Cooperation Dept., Ministry of Environment and Water	Junior Expert, Desk Officer Sustainable Development Issues and UN Agencies	mvladimirova@moew.government.bg
19	Maya	Topalova	EUROSTART 2008 Ltd	Senior Expert "Programs and projects"	office@eurostart2008.eu
20	Mihaela	Nikolova	BULAQUA Standart Ltd, a company owned by the Bulgarian Water Association	Water supply and sewerage engineer	m.nikolova@bwa-bg.com
21	Milkana	Mochurova	Economic Research Institute-Bulgarian Academy of Sciences	Research Fellow, Ph.D.	m.mochurova@iki.bas.bg
22	Petya	Koralova-Nozharova	Todor Kableshev Higher Transport School	Chief Assistant, Ph.D.	petyakoralova@gmail.com
23	Radoslav	Tonev	Section of Young Professionals in the Water Sector - Bulgarian Water Association	Section coordinator, Dipl. Eng, Ph.D. student	radoslaw_tonew@abv.bg

No	First name	Family name	Organization	Position	Email address
24	Roumyana	Ilieva	VIK consulting Ltd	Civil Engineer, Water Supply and Sewerage	vikconsulting@abv.bg
25	Shteryo	Nozharov	University of National and World Economy	Chief Assistant, Ph.D.	yana@club2000.org
26	Spartak	Keremidchiev	Club "Economika 2000"	Chair, Professor, Ph.D.	spartak@club2000.org
27	Tanya	Trenkova	National Institute of Geophysics, Geodesy&Geography at Bulgarian Academy of Sciences	Research Fellow	trenkova@mail.bg
28	Tatiana	Orehova	Climate, Atmosphere and Water Research Institute-Bulgarian Academy of Sciences	Associate Professor, Ph.D.	tvorehova@gmail.com
29	Temenujka	Marandiuc	West Aegean River Basin, Blagoevgrad	Chief Expert	t.marandiuc@wabd.bg
30	Victoria	Kuncheva	Section of Young Professionals in the Water Sector - Bulgarian Water Association	Member of Coordination Council, Ph.D. student	viktoria.kuncheva@gmail.com
31	Violeta	Roiatchka	Water Management Directorate at Ministry of Environment and Water	State Expert, FP for SDG 6.5.1	vroyachka@moew.government.bg
32	Yana	Kirilova	Sofia Consulting Group Ltd	Economist	yana@club2000.org

#### Annex 1.5: List of interviewees for SDG 6.5.1, June-July, 2020

No	Name	Organization/Position	Email address	Summary of inputs
	<b>National water agencies:</b>			
1.	Ivan Ivanov	Bulgarian Water Supply&Sanitation Holding – President of Steering Committee	ivijean@abv.bg	1, 2 and 3
	<b>Basin/Aquifer agencies:</b>			
2.	Zdravka Toromanova	East Aegean River Basin Directorate-Plovdiv town-Chief Expert	zdravka44@abv.bg	1, 2 and 3
	<b>Transboundary expertise:</b>			
3.	Katina Tsvetanova	Danube River Basin Directorate, Pleven town – Chief Experts	katina.tsvetanova@bddr.org	1.2c, 2.2e, 3.2d, 4.2c
4.	Veselka Encheva-Ilieva		veselka.encheva@bddr.org	
	<b>Research/academia:</b>			
5.	Boyko Tsyntsarski	Institute of Organic Chemistry with Centre of Phytochemistry-Bulgarian Academy of Sciences - Professors	boyko.tsyntsarski@abv.bg	3
6.	Narzislav Petrov		goriva@orgchm.bas.bg	
7.	Temenujka Budinova			
8.	Nelly Gadjalska	Institute of Soil Science, Agrotechnologies and Plant Protection "Nikola Poushkarov"-Assoc.Prof.	gadjalska@abv.bg	1 and 3

<b>No</b>	<b>Name</b>	<b>Organization/Position</b>	<b>Email address</b>	<b>Summary of inputs</b>
9.	Sonya Chehlarova	Institute of Soil Science, Agrotechnologies and Plant Protection "Nikola Poushkarov"-Assoc.Prof.	s.a.simeonova@mail.bg	
10.	Rossitza Rodeva	Institute of Plant Physiology and Genetics – Bulgarian Academy of Sciences-Assoc.Prof.	r.rodeva@abv.bg	3.1.d
11.	Slavcho Slavov	Agrobioinstitute – Scientific Secretary	sbslavov@abi.bg	
	<b>Private sector:</b>			
12.	Nikola Nikolov	“Consult Engineering -2-JMC” Ltd - Manager	nnikolov04@gmail.com	2
13.	Plamen Petkov	OIP 1 Ltd - Manager	oip1@abv.bg	2
14.	Avram Radev	Waterengineering Ltd - Manager	watereng@abv.bg	2
15.	Hristo Dobrev	SOLVO Ltd - Manager	office@solvobg.com	2
	<b>Water User Associations:</b>			
16.	Dimitar Mihalkov	Bulgarian Water Association – International coordinator	d.mihalkov@bwa-bg.com	1 and 2
	<b>Civil society:</b>			
17.	Anka Dineva	Dipl. Eng. - pensioner	ani_p_dineva@yahoo.com	1 and 2
18.	Ivan Buhov	Dipl. Eng. - pensioner	ivanbuhov@abv.bg	1 and 2
	<b>Municipalities:</b>			
19.	Elena Grigorova	Municipality of Gorna Oryahovitza town - municipal councilor on ecology, chemist	e.s.grigorova@gmail.com	1,2 and 3
	<b>NGO:</b>			
20.	Margarita Syarova	Scientific-Technical Union of Water Affairs in Bulgaria – General Secretary	ntsvd@abv.bg	1, 2 and 3
	<b>Media:</b>			
21.	Ilyna Dimitrova	Water Affairs magazine - Editor	psse@abv.bg	1 and 2
22.	Marin Nikolov	bTV - Journalist	m_kolow@abv.bg	2

## Annex 2: Agenda

### UN SDG 6.5.1 workshop, July 7, 2020 (20 participants)

Venue: Climate, Atmosphere and Water Research Institute-Bulgarian Academy of Sciences,  
(CAWRI-BAS), Sofia city

9.30 – 10.00 a.m.	Registration and coffee
10.00 – 10.15 a.m.	Welcome speech (Prof. Ekaterina Batchvarova – Director of CAWRI-BAS)
10.15 – 11.15 a.m.	Session 1: “Enabling Environment” - facilitator prof. Emil Bournaski
11.15- 12.15 a.m.	Session 2: “Institutions and Participation” - facilitator prof. Emil Bournaski
12.15 – 13.00 a.m.	Lunch
13.00 – 14.00 a.m.	Session 3: “Management Instruments” - facilitator prof. Emil Bournaski
14.00 – 15.00 a.m.	Session 4: “Financing” - facilitator prof. Emil Bournaski
15.00 – 15.30	Conclusions and closing

### Online Youth UN SDG 6.5.1 workshop, July 8, 2020 (6 participants)

17.30-17.35 p.m.	Opening
17.35 – 18.00 p.m.	Introduction to the survey – facilitator Dipl. Eng. Radoslav Radev, Ph.D. student
18.00 - 19.30 p.m.	Discussion over the current situation: IWRM in Bulgaria and implementation of SDG 6.5.1 - facilitator Dipl. Eng. Radoslav Radev, Ph.D. student
19.30 - 19.45 p.m.	Break
19.45 – 21.15 p.m.	Discussion over the youth involvement and recommendation for future improvement of the current situation - facilitator Dipl. Eng. Radoslav Radev, Ph.D. student
21.15 – 21.30 p.m.	Voting for the final answers in the survey
21.30 – 21.45 p.m.	Closing

### Online UN SDG 6.5.1 workshop, July 9, 2020 (32 participants)

10.30-10.35 a.m.	Opening – facilitator Prof. Emil Bournaski
10.35 – 11.00 a.m.	Reporting the results of the interviews and filled questionnaires (Scientific-Technical Union of Water Affairs in Bulgaria)
11.00-11.30 a.m.	Facilitator’s comments about SDG 6.5.1 workshop on July 7, 2020 (Prof. Emil Bournaski, Ph.D.)
11.30-11.45 a.m.	Facilitator’s comments about online Youth SDG 6.5.1 workshop on July 8, 2020 (Facilitator: Dipl. Eng. Radoslav Tonev, Ph.D. student)
11.45 - 12.00 a.m.	Brief process overview (FP SDG 6.5.1)
12.00 – 12.30 a.m.	Discussion and closing

### **Annex 3: Facilitators and Consultant's Comments**

The SDG Indicator 6.5.1 survey organised in the period June-July 2020 showed slight progress in the implementation of IWRM compared to the previous one in February-March 2018. This is explained by the short period between the two studies as well as the perception of the importance of COVID -19 pandemic and the need to reinforce funding for social and economic activities. Nevertheless, the construction of wastewater treatment plants continues, and it is directly related to the protection of surface water quality - a top priority of IWRM. However, this activity is part of another SDG and is not reported under SDG 6.5.1.

In the last 2 years, significant financial resources have been allocated for reinforcement of existing small dams in order to prevent the risk of floods in settlements and agricultural areas. With funds from the World Bank, the dam wall of Studena Dam near Pernik, is reconstructed, as well as a new Plovdivtsi Dam is built to overcome the shortage of water during drought in the municipalities of Madan and Rudozem.

A National Strategy for Adaptation to Climate Change and Action Plan was adopted on 25 October 2019.

Financial resources for the restoration of contaminated land, incl. water resources from closed mines have also been allocated.

New RBMPs 2022-2027 and FRMPs 2022-2027 are currently being developed, in which special attention is paid to IWRM, taking into account the new conditions of climate change and pandemic. Achieving the goals of SDG Indicator 6.5.1 by 2030 requires a focus on increasing capacity at all levels, paying special attention to the younger generation.

#### *Facilitators:*

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Dipl. Eng. Radoslav Tonev, Ph.D. student – Section of Young Professionals in the Water Sector - Bulgarian Water Association, radoslaw\_tonew@abv.bg, + 359 889 285324

*Consultant:* Scientific-Technical Union of Water Affairs in Bulgaria

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## Annex 4: Photos

SDG 6.5.1 workshop on July 7, 2020, Sofia capitale



## Annex 5: Publication

Water Affairs magazine 3/4, 2020 (second cover page)  
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