1. Summary of operations implement	ed using F	TLP funds								
Japan Water Agency undertakes the constr canals and other water utilization or flood of Yoshino River and Chikugo River. The Co government or local public bodies. Of the projects implemented by the Corpor those costs temporarily until the construction Note: Projects not eligible for FILP include facilities. Here, "water utilization project" is defined control and maintenance of normal river fur	uction and m control facilit rporation is g ation, FILP is on of water u those for flo as a project t nctions of the	anagement of ies at seven ri generally enga s applied only tilization facil od control in o secure a sup circulatory s	dams, estua ver systems ged in large- to the portio ities is comp construction oply of dome ystem of bas	ary barrages, fa nationwide, in -scale, emerge ton categorized pleted and the n of a dam for t estic, industria sins.	cilities for w cluding the 7 ncy projects as construct peneficiary s he purpose of and agricult	vater level adjustment fo Tone River, Ara River, contributing to water u tion costs for water utili starts to gain income fro of flood control and man tural water, and "flood o	or lakes and marshes, multi Toyo River, Kiso River, Y tilization of large areas, for zation projects. The Corpo m water supply services. nagement service for the co control project" is defined	purpose odo River, the national oration pays ompleted as the flood		
2. Amount of lending under FY2021	FILP					(]	nit: hillion ven)			
FY2021 FILP		Estima	ted outsta	anding amor	int of FIL	P lending at the en	d of FY2020			
1.0				8	224.4					
3. Estimated policy cost analysis of th	ne project			(3) Year-te	-Year compa	urison analysis				
(1) Policy cost		(Unit: b	illion yen)	(Computir	g any fluctuat	tion from previous year)	(Unit: billion yen)		
Category	FY2020	FY2021	Fluctuation] [FY2020	FY2021	Simple fluctuation		
1. Government expenditure (subsidies, etc.)	75.5	65.1	-10.4		Simple comparison before adjustment)	67.7	54.1	-13.6		
2. Government revenue	-	_	-	cos	Dact year	1) Adjusting initial years	2) Adjusting assumed interest rates	Real		
(payments to the government, etc.)*1				licy	comparison	initial year to that for FY202	(Analysis results of re-estimation using assumed interest rate for	fluctuation $(2-1)$		
3. Opportunity cost of capital investments, etc.	-7.8	-11.0	-3.2	Ро	(after adjustment)	analysis)	FY2020)	-0.6		
Total (1+2+3=policy cost(A)) 67.7		54.1	-13.6	[Real fluctuation factor analysis]						
Analysis period (years)	36 years	35 years	-1 year	r UFactors behind policy cost increase - Increase in cost due to finalization of FY2019 results and revision of						
(2) Breakdown of policy cost by the time of the	ne provision o	f funds (U	nit: billion yen)	FY2020	projection	s (+1.0 billion yen)				
Category	FY2020	FY2021	Fluctuation	n OFactors behind policy cost decrease						
(A) Policy cost (previously cited)	67.7	54.1	-13.6	- Decrea (-1.6 bil	ise in cost o lion yen)	due to a decrease in s	ubsidies during the ana	lysis period		
 Opportunity cost of capital investments, etc. provided before the beginning of the analysis period 	0.7	1.0	+0.3							
2) Policy cost expected to be newly accrued during the analysis period	67.0	53.1	-13.9	└──						
Government expenditure (subsidies, etc.)	75.5	65.1	-10.4							
Government revenue (payments to the government, etc.)*1	-	-	-							
Opportunity cost of surplus, etc.	-8.5	-12.0	-3.5							
Opportunity cost of capital investments, etc.	-	-	-							
(4) Sensitivity analysis (cases whe	ere assump	tions chans	ge)	ļ			(Unit: billion yen)			
(A) Policy cost (previously cited) Case before negative interes policy* ² 54.1	the st rate 54.0	Fluctuation	1. Goy	vernment expend (subsidies, etc.)	-0.1	Government revenue ents to the government, etc.)*1 -	Opportunity cost of bital investments, etc. +0.1			
(A) Policy cost (previously cited)Case of a 10 increase in open expenses54.1	% cating 54.8	Fluctuation	1. Gov	vernment expen- (subsidies, etc.)	2. 0 (paym) +0.6	Government revenue ants to the government, etc.)*1 -	Opportunity cost of bital investments, etc.			

(Note) Components in each column may not add up to the total because of rounding.

*1 Government revenue (payments to the government, etc.) is booked as a negative amount. Example: -10 b. yen for 10 b. yen in payments to government, etc.

*2 Assumed interest rates (discount factor and future interest rate) are based on the market yield on Japanese government bonds on January 28, 2016, before the introduction of the negative interest rate policy.

4. Outline of estimation and project prospect employed in the analysis

[Outline of estimation]

1) The estimation covers the projects to construct dams, canals, and other facilities. (excluding flood control projects from dam construction projects) 2) The project scale is estimated to be 139.8 billion yen for the period from FY2021 through FY2032. The project scale in FY2021 is estimated to be 15.1 billion ven. (excluding flood control projects)

3) The FY2020 analysis covered 35 years (against 36 years for the FY2020 analysis) during which construction will be completed, with fiscal loans redeemed. 4) Based on the total project cost and construction periods of the above-mentioned projects, the amount of subsidy for each project is estimated in consideration of the cost allocation and the subsidy ratio of the project.

[Project prospect]

1) Subject to the analysis are 10 ongoing projects, which will be completed by FY2032.

(Project costs in the past and future)

(Project costs in the past and future) (Unit: billio										
		Res	sult		Estimated	Planned		Assumptions for calculation		
FY	2016	2017	2018	2019	2020	2021	2022-2032	A		
Project expenses	34.1	44.1	61.8	58.1	69.4	37.7	292.3	Appropriation is based on the construction		
Project expenses subject to the analysis	14.5	20.1	25.7	24.2	36.1	15.1	124.7	the completion of the construction projects.		

Note: The project cost subject to the analysis excludes the flood control project which is not eligible for FLIP.

2) The beneficiaries of the water utilization projects agreed to bear the debt individually after the completion of the projects. They plan to make all repayments as the payment of principal in installments by FY2048. The amount to be repaid includes the amount already spent for projects that have not be completed. (Typical period for which debt*)

Domestic and industrial water: 23 years Agricultural water: 17 years

* Recovery period is to be decided by the Institution after the transition through discussion with the parties who pay the fees and obtaining the approval from the minister and competent minister of Land, Infrastructure, Transport and Tourism according to the Article 31 (municipal water) and Article 34 and Article 39 (agricultural water) of the cabinet order of the Japan Water Agency Act.

3) Beneficiaries (local authorities, etc.) agreed to bear the debts and prepare project plans accordingly and have never made overdue installment payments. The Agency can therefore count on the punctual repayments of debts and estimate policy costs without taking into account unrecoverable contributions.

5. Reasons for granting of subsidies, mechanism and underlying laws

Subsidies are granted in order to reduce the financial burden on beneficiaries of water supply service for domestic, industrial, and agricultural purposes.

(Underlying laws and regulations)

"Water Resources Development Promotion Act"

Article 13: The national government shall make efforts to take a measure to secure necessary funds and other measures to cover the costs of the implementation of the Basic Plan.

"Japan Water Agency Act"

Article 35: The national government may grant a subsidy to the Agency under a Cabinet Order within the budget. The Agency shall use the subsidy to pay a part of the expenses to carry out the operations specified in Clause 1 or Clause 3 of Paragraph 1 of Article 12.

The Agency receives the following subsidies from the general account of the national budget under the above-mentioned laws. Domestic water: Subsidy for improvement of facilities to develop water resources for domestic water (Subsidization rate: one third or one half) Industrial water: Subsidy for projects to secure industrial water (Subsidization rate: 40% or lower)

Agricultural water: Subsidy for projects to develop infrastructure for agricultural business (Subsidization rate: 70% or lower)

Note: The subsidization rate applied to the use of agricultural water in a developing area might exceed 70%.

Payment to the national treasury is stipulated in the Japan Water Agency Act as below:

"Japan Water Agency Act"

(Disposition of Reserve Funds)

Article 31: When the Agency has settled an account pursuant to the provisions of paragraph (1) or paragraph (2) of Article 44 of the Act on General Rules for the final business year of the mid-term target period prescribed in Article 29, paragraph (2), item (i) of the Act on General Rules (hereinafter referred to as the "midterm target period" in this paragraph), and there remains a reserve fund under Article 44, paragraph (1) of the Act, the portion of the amount equivalent to the amount of the reserve fund that was approved by the Minister of Land, Infrastructure, Transport and Tourism may be appropriated for the operations prescribed in Article 12 during the following mid-term target period in accordance with the mid-term plan permitted as set forth in Article 30, paragraph (1) of the Act on General Rules for the next mid-term target period (when the permission for a change pursuant to the provisions of the second sentence of the relevant paragraph is obtained, in accordance with the mid-term plan after the change).

2 If there is a surplus after subtracting the amount for funding the operations involving Paragraph 1-2-(c), 1-5, Paragraph 2 and Paragraph 3 of Article 12 out of the amount approved by the Minister of Land, Infrastructure, Transport and Tourism as provided in the previous paragraph from the amount provided in a Ministry of Land, Infrastructure, Transport and Tourism ordinance as profit involving the operations out of the reserve fund amount as provided in the previous paragraph, the Agency shall pay the surplus to the national treasury. 3 (omitted)

6. Special remarks

1) In accordance with the Japan Water Agency Act (Act No. 182 of 2002), the Water Resources Development Public Corporation was dissolved and the Japan Water Agency (Incorporated Administrative Agency) was established on October 1, 2003.

2) It was specified in the "Reorganization and Rationalization Plan for Special Public Corporations" approved at a cabinet meeting in December 2001 that a new system to have water users pay the cost in advance should be introduced and used as much as possible. The system has been implemented for some operations and reflected in the policy cost analysis.

3) It should be noted that the values of dams, irrigation channels, and other facilities are not considered in the policy cost analysis.

4) The policy cost of the Agency contributes to ensuring a stable supply of domestic and industrial water, promoting more efficient and intensive agricultural business through a stable supply of agricultural water, and enhancing the national economy and the standard of life of Japanese people.

5) Facilities constructed and managed by the Agency serve for various purposes such as providing places to local people where they like to come to relax and developing the local water circulation system by letting used agricultural water return to rivers and recharge groundwater.

6) In addition to water utilization projects, the Agency carries out flood control projects to ensure the safety of people's lives, properties, and land. The ongoing projects for flood control such as the construction of dams is expected to save about 1.2 trillion yen (on the basis of price levels in FY2020; Calculated by the Agency based on the materials provided by the Ministry of Land, Infrastructure and Transport) by reducing the damage that would have been caused by floods.

(Reference) Outcome and social and economic benefits of operations

1) Special features of FILP-funded projects

a. Consistent implementation from construction of regional and multi-purpose facilities extending over several prefectures to management (domestic water, industrial water, agricultural water)

b. Unified implementation from water resources development to aqueducts

c. Implementation of regional water utilization projects in large urban areas (7 river systems) accounting for approximately 50% of the population, including the Tokyo metropolitan area. This covers approximately 80% of the new water supply goal in the target areas, so the Corporation projects function as a local lifeline.

2) Overview of FILP-funded projects

Total of 10 projects are under way including new construction of new water facilities such as dams and reconstruction of existing water facilities (functional recovery and enhancement).

3) Results of FILP-funded projects

With the completion of 10 projects subject to the analysis coupled with water supply projects implemented by water utilization establishments, water that can be supplied stably to agricultural land and households is approximately 186 $\vec{n/s}$ (70 for domestic water, 7 for industrial water and 109 for agricultural water (including supply volume for reconstruction projects)).

a. The supply volume of domestic water is 70 m^3 s. When converted to daily volume, it is approximately 6.05 million m, when converted to water utilization volume per person, it will serve approximately 15 million persons.

b. The supply volume of industrial water is 7m³/s. When converted to daily volume, it is equivalent to approximately 0.57 million m³, and when converted to supply volume utilized in the plants of 3 industries (chemical industry, steel industry and pulp, paper and paper processed manufacturing), it contributes to product shipments equivalent to approximately 1.1 trillion yen annually (estimate by the Agency).

c. The supply volume of agricultural water of 109m³/s (busy farming season) is approximately 9.42 million m³ in daily volume, which irrigates approximately 70,000 hectares of agricultural land (equivalent to 2% of agricultural land nationwide). This contributes to stable agricultural management and the production of approximately 150,000 farming households.

(Reference) The daily supply volume is equal to 14 times (domestic water 5, industrial water 1 and agricultural water 8) of the capacity of Tokyo Dome (about 1.2 million m³).

While it is rather difficult to grasp the quantitative benefits generated from operations, as for the 10 operations (Omoi River Development, Narita water facility reconstruction, Tone Connection Canal large-scale Earthquake Countermeasures, Kiso River System Connection Canal, Miyoshi Branch Canal Emergency Measures, Toyogawa Canal Stage II, Kawakami Dam, Emergency measure for Kagawa water supply facilities, Koishiwaragawa Dam, Fukuoka Connection Canal Facility Earthquake Countermeasures), the total following benefits with respect to them, the benefit concerning

a) The reducing effects of low or disrupted water damage by maintaining the water resource development facilities and of disrupted water damage by reinforcing the facilities to earthquake-resistant in the field of domestic water;

b) The reduction effect of industrial water procurement costs when forced to seek water from other sources and damage risk aversion effect for the facilities by turning them into earthquake resistant; and

c) The production and upgrade effects of agricultural products in the field of agricultural water will be estimated as follows;

in the case where the social discount rate is set to 4% and the longest analysis period is set to 50 years;

17,403.6 billion yen (estimated by the Agency)

· in the case where the social discount factor is set to that of the policy cost analysis;

30,572.8 billion yen (estimated by the Agency)

Overview of policy cost analysis results

[Changes in policy costs]



Note: Policy costs for each fiscal year differ in assumptions including interest rates applied to estimates.

										(Unit: bil	lion yen)
		FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
Pol	icy costs (total amount)	121.3	93.1	84.6	97.4	79.7	58.1	70.8	78.5	67.7	54.1
	Government expenditure (subsidies, etc.)	70.5	58.5	65.0	89.9	81.3	72.5	76.0	82.6	75.5	65.1
	Government revenue (payments to the government, etc.)	-	-	-	-	-	-	-	-	-	-
	Opportunity cost of capital investments, etc.	50.8	34.6	19.6	7.5	-1.6	-14.4	-5.1	-4.1	-7.8	-11.0

[Explanation of policy cost trends]

• The total project cost of construction projects that are subject to policy cost analysis is stipulated in the project execution plan, therefore, remaining project cost decreases as construction projects proceed. Along with this, subsidies, etc. from the government decrease, resulting in policy costs basically being on a decreasing trend. If Government subsidies, etc. increase due to changes in project execution plans or additional projects, however, the policy cost would rise.

[FILP agency's self-assessment of policy cost analysis results (FY2021)]

•The estimated policy cost of 54.1 billion yen in FY2021 is lower than the level in usual years (around the average in the past three years) and is down 13.6 billion yen compared with the previous year. A major factor behind the decline was that Government subsidies, etc. decreased as the remaining project expenditures shrank in line with construction project progress.

•We have confirmed the redeemability of fiscal loans through future cash flow estimation results produced during the policy cost analysis. Given that no annual loss is projected for the future, we have concluded that our financial soundness has been secured.

• In the sensitivity analysis in which the assumed interest rates before the negative interest rate policy introduction were used for computing the policy cost, the cost decreased by 100 million yen from the basic case. The decrease from the basic case policy cost of 54.1 billion yen was limited to 0.2%, indicating little impact on financial soundness.

• The results of the sensitivity analysis, which calculated the policy cost under the assumption of a 1% increase in operating expenses, showed an increase of 0.6 billion yen in the policy cost to 54.1 billion, translating into an increase of around 1.1%. The main factor behind this is an increase in subsidies, etc. from the government. due to an increase in operating expenses.

Balance Sheet						(Uı	nit: million yen)
Item	End of FY2019	End of FY2020	End of FY2021	Item	End of FY2019	End of FY2020	End of FY2021
(Assets)	(Result)	(Estimated)	(Planned)	(Liabilities and equity)	(Result)	(Estimated)	(Planned)
Current assets	80,891	51,804	40,158	Current liabilities	60,480	37,790	35,282
Cash and bank deposits	32,869	17,832	13,769	Accrued payments	18,316	16	16
Securities	8,200	700	100	Accrued expenses	56	28	30
Others	39,823	33,272	26,289	Others	42,109	37,746	35,237
Fixed assets	3,402,595	3,362,818	3,301,226	Fixed liabilities	3,342,205	3,299,891	3,233,246
Fixed assets for operations	2,714,944	2,835,226	2,761,946	Contra accounts for assets	3,066,103	3,050,332	3,012,734
Tangible fixed assets	2,709,089	2,829,371	2,756,066	Long-term deposit of subsidies	819	542	493
Intangible fixed assets	5,855	5,855	5,879	Water resource bonds	9,000	10,000	10,000
Fixed assets for general management	6,680	7,018	6,988	Discount on bond	0	0	0
Tangible fixed assets	6,679	7,017	6,988	Long-term loans payable	240,858	213,290	184,838
Intangible fixed assets	1	1	1	Reserves Advances received for	25,353	25,644	25,122
Construction in progress	393,193	267,126	300,894	commissioned operations	42	51	59
Construction in progress for operations	393,193	267,126	300,894	Asset retirement obligations	31	31	-
Investment and other assets	287,778	253,449	231,399	(Total liabilities)	3,402,686	3,337,681	3,268,528
Investment securities	11,468	11,456	12,044				
Installment principal Long-term prepayment of	265,112	232,599	207,595	Capital	4,838	4,838	4,838
consumption tax, etc.	10,427	8,728	11,200	Financing by the Government	4,838	4,838	4,838
guarantee Other investments and	274	274	274	Capital surplus	- 1,843	- 1,429	- 1,418
other assets	496	391	286	Capital surplus	1,818	2,368	2,624
				Other administrative costs accumulated	- 3,661	- 3,798	- 4,042
				Retained earnings	77,806	73,533	69,436
				Reserve carried forward during			
				former medium-term target period	73,029	66,833	61,060
				Reserve fund	2,513	4,777	6,700
				Unappropriated income	2,264	1,923	1,675
				(Of this group are fit)	(2.264)	(1.022)	(1.775)
				(Of this, gross profit)	(2,264)	(1,923)	(1,0/5)
				(Total equity)	80,800	/0,941	12,856
Total assets	3,483,486	3,414,622	3,341,384	Total liabilities and equity	3,483,486	3,414,622	3,341,384

Notes 1. The balance sheet includes costs for projects other than those subject to the policy cost analysis.

2. Components may not add up to the total because of rounding.

Income	Statement
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Income Statement						(Un	it: million yen)
Itam	FY2019	FY2020	FY2021	Itam	FY2019	FY2020	FY2021
Itelli	(Result)	(Estimated)	(Planned)	Itelli	(Result)	(Estimated)	(Planned)
(Losses)				(Profits)			
Ordinary expenses	119,734	133,897	125,588	Ordinary income	118,011	130,175	121,747
Cost of management activities	35,378	38,584	37,778	Revenues from commissioned work	1,120	3,310	2,772
Cost of entrusted activities	1,108	3,310	2,772	Revenues from subsidies, etc.	33,160	36,428	35,855
Cost of donation-based	0	2		Densting	0	2	
projects	0	2	-	Donations	0	2	-
Disaster reconstruction	5.02	2 509		Disaster reconstruction	5(2)	2 509	
operation cost	503	3,508	-	operation revenue	503	3,508	-
Operational expenses for	104	177	179	Operational revenues for	20	51	15
overseas surveys, etc.	104	1//	170	overseas surveys, etc.	50	51	45
				Revenues from management	938	670	712
Construction project expenses	398	6,577	529	miscellaneous sources	250	0/0	/12
General and administrative	2 925	4 107	4 295	Reversal of asset collateral	74 700	72 727	
expenses	2,835	4,107	4,285	subsidies	/4,/90	13,121	/6,//4
Depreciation cost of fixed				Reversal of collateral subsidies			
assets for operations	73,715	73,377	76,376	for construction in progress	-	5,991	-
Cost of eliminating fixed				In construction in progress			
cost of eminiating fixed	1,115	385	432	Income regarding return for	539	539	539
	4.510	2.970	2.226	provision for bonuses	C 959	5.050	5.050
Finance expenses	4,519	3,869	3,236	Financial income	0,858	5,950	5,050
Miscellaneous losses	-	2	2	Miscellaneous income	14	-	-
Temporary losses	1 252	-	_	Temporary profits	1 252	_	-
Loss on sale of fixed assets	1,232	_	_	Reversal of asset collateral subsidies	709	_	
Loss on sale of fixed assets	17	-		Reversals of collateral subsidies	10)	_	_
Impairment loss	672	-	-	for construction in progress	17	-	-
				Income regarding return for	576		
Payments to the national treasury	37	-	-	provision for bonuses	520	-	-
Provision for bonuses accompanying	526	-	-				
accounting standard revision							
				Reversal of reserve carried forward during			
Gross profit	2,264	1,923	1,675	former medium-term target period	3,988	5,646	5,516
Total	123.250	135 821	127 263	Total	123,250	135.821	127.263
Notes 1. The income statement include	es costs for projec	ts other than thos	e subject to the p	olicy cost analysis.	125,250	100,021	127,203
2 Components may not add up	to the total becau	se of rounding	e subject to the p	one, cost unuryous.			
2. Components may not add up	to the total becau	se of founding.					