

Committee G Environment -

Case studies involving planning, construction and operation of dams demonstrating environmental and social benefits

MIYAGASE DAM PROJECT IN JAPAN Strategy for achieving social and environmental goals with Japan's Act on Special Measures for Reservoir Area Development

Goro YASUDA IHI Infrasystems / JCOLD



OVERVIEW OF THE MIYAGASE DAM

- Purposes : 1)Flood control, 2)Water supply, 3)Low flow augmentation, 4)Hydropower
- Relocation : 1136 Persons, 281 Households
- Dam height : 156m

 Potential objection to the dam was high.
Potential for making the area to make economic success was also high.





 \checkmark

ASMRAD

- Enacted in 1973.
- Reflects lesson learned from the dispute over the water use of the Lake Biwa and Yodo River. Dispute over Yamba Dam also influenced.
- Legally backs up concerted efforts to make the area around a designated dam better off with contributions by the beneficiaries.





RESERVOIR AREAS DEVELOPMENT

Measures to

prevent

degradation

of natural

environment

Resettlement Aid Measures based on the ASMRAD and the related funds

• Three recreational areas was created near Miyagase Dam



OUTCOMES AND CONCLUSIONS (1)

- 1. More than 1.5 million visitors visit the Miyagase Dam and surrounding area every year. It attract visitors more than any dams in Japan.
- Financial conditions of the local municipalities around the Miyagase Dam <u>become superb</u>. Aikawa Town, one of the municipalities, is not allocated local tax in 2017. Only 77 (4.5%) wealthy municipalities are not allocated local tax out of the 1,718 municipalities.
- 3. <u>Socio-economic impacts</u> by the Miyagase Dam Project <u>were mitigated as the results of concerted efforts</u> by the dam owner and stakeholders.
- 4. <u>ASMRAD plan</u> for the Miyagase Dam <u>played a vital role</u> for the success of the mitigation.

A REAL PROPERTY AND A REAL

OUTCOMES AND CONCLUSIONS (2)

- 5. Environmental impacts by the Miyagase Dam Project were mitigated as the results of [non-legal at the time] environmental impacts assessment and mitigation measures. (Sorry, environmental issues are not covered in this presentation due to the restriction on the number of the slides)
- 6. <u>With these efforts</u>, <u>areas</u> around the Miyagase Dam and the reservoir <u>turned to attract many people and</u> <u>investments</u>.
- 7.No unexpected significant impacts on environment seems to happen so far.