

Background

Ghana's economy is largely dependent on agriculture and the growth of the sector is the key to overall economic growth and development.

The Accra Plains which is located on the lower right bank of the Volta River consists of about 150,000 ha. The Government of the Republic of Ghana (GoG) in 1968 initiated irrigation development in some parts of the Accra Plains. Following the completion of the Kpong dam in 1982, the Kpong Right Bank Irrigation Project (now Kpong Irrigation Scheme (KIS)) has put about 3,000 ha of land under irrigation using gravity from the dam. GIDA assumed responsibility over the operation and maintenance of the irrigation infrastructure and the production activities of the smallholder farmers.

The irrigation infrastructure of KIS is now in need of rehabilitation. As Ministry of Food and Agriculture (MoFA) and GIDA have initiated the rehabilitation of KIS as a component of The Ghana Commercial Agriculture Project (GCAP), the capacity development of smallholder farmers and Water User Associations (WUA) is also indispensable to increase the productivity and profitability of rice cultivation.

In this context, the GoG and GIDA requested Government of Japan and JICA to support the development of KIS.

Project Area

District: Shai-Osudoku
Region: Greater Accra



Project Area

Ghana

Project Framework

Project Period: January 2016 – January 2021

Overall Goal: The total agricultural production in irrigation schemes of Ghana is increased.

Project Purpose: The agricultural production in KIS is increased.

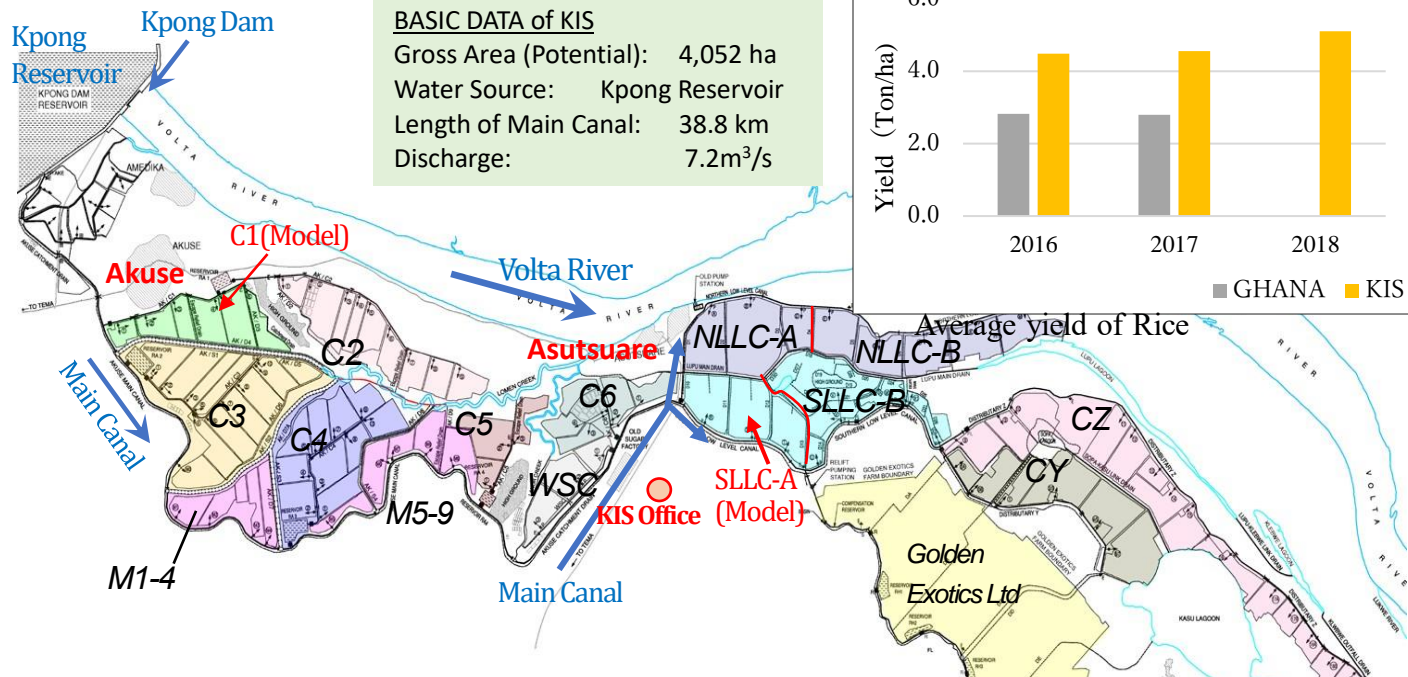
Output 1: The capacity of GIDA for scheme management in KIS is developed.

Output 2: The management capacity of WUAs is strengthened.

Output 3: The appropriate techniques for KIS is identified and practiced by trained farmers.

Output 4: Market-Oriented Agriculture is promoted in KIS.

Service Area of KIS



Branch Name	C1	C2	C3	C4	M1-4	M5-9	C5	WSC	C6	NLLC-A	NLLC-B	SLLC-A	SLLC-B	CY	CZ	Total
Service Area(ha)	107	157	239	178	68	94	64	59	84	126	164	133	91	170	298	2,032
Number of farmers	88	185	234	183	69	98	62	60	79	389	297	301	136	276	310	2,767

Water Users Association (WUA)

Water Users Association is stipulated by the Regulation, L.I.2230 as organ to manage the irrigation and drainage system. The project supports WUA so that WUA can play multiple functions for the benefit of members.

<Multiple Functions of WUA in MASAPS-KIS>



Project Activities/Achievements



Establishment and support of WUA

The establishment of WUA in KIS has progressed in every branch area basically. Two WUAs in KIS were registered first in the country in March 2018, then other 4 WUAs were established by January 2019. The Project continues to facilitate the establishment of the other 9 planned WUAs. The project also undertakes development of the model of WUA through trial activities on strengthening of management with 2 selected WUAs, which can be applied to other WUAs.



Promotion of Market Oriented Agriculture

Marketing is one of the most important issues to increase farmers' income. The Project provides Smallholder Rice Empowerment Promotion (SREP) training for WUA members to be able to identify customer needs and grow to meet customer demands. Training activities address the motivation of farmers to ensure their success in farming as a business.



Optimum Input for Rice Cultivation (OIRiC)

During baseline survey, Project identified excessive use of inputs such as seed and fertilizer by farmers which is a major challenge for productivity and profitability increase. In order to address the issue, series of trials have been conducted in the Project's demonstration field and a package of techniques called "Optimum Input for Rice Cultivation: OIRiC" was identified, which consists of the following five technical components;

1. Use of Certified Seeds;
2. Raising Healthy Seedlings;
3. Application of Optimum Amount of Nitrogen;
4. Optimum Seed rates & Variety Specific Plant Density;
5. Efficient Water Management.

WUA leaders are trained on the OIRiC and the techniques are passed on to farmers and stakeholders through field days and demonstrations. With technical support by the Project, WUA leaders establish a satellite demonstration field in each block to disseminate this "OIRiC" as "farmer to farmer" extension approach.

Certified Seed Production

KIS was given the registration certificate for seed producer by Ghana Seed Inspection Division in January 2018 supported by the Project. The provision of certified seeds is expected to contribute to the increase of productivity and profitability of rice cultivation in KIS.



Project for Enhancing Market-Based Agriculture By Smallholders and Private Sector Linkages in Kpong Irrigation Scheme (MASAPS-KIS Project)



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and
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