

To Create a Village of Health and Welfare Utilizing Agriculture in Kitanakagusuku Village Project Phase 1

Regional Revitalization Promotion Corporation EM Research Organization, Inc.



Phase 1 Project Outline

In order to utilize renewable energy, a bio-cycle center will be established including biogas power generation facilities, biostimulant production facilities, and microorganism cultivation facilities. In addition, ICT solar hydroponic cultivation facilities, farms, and plots for school children will also be developed. While agriculture is a vital industry in Kitanakagusuku Village, it faces challenges such as lack of successors and significant amounts of abandoned farmland. The hydroponic cultivation facilities and plots will play a crucial role in promoting agriculture while growing new farmers, and will also contribute to local exchange by hosting study tours and providing a farm for school children.

Facilities Outline (As of Jan, 2023)

Facility	Scale	Details
① Bio-cycle Center	6 0 0 m ²	Integrated facility of 4 parts
Biogas power generation	1 0 0 m ²	Power generation by methane fermentation utilizing food waste
Biostimulant production	4 0 0 m ²	Manufacturing facilities for organic agricultural materials
Office	4 0 m ²	Control room and office
② ICT solar hydroponic cultivation	2 2 0 m ²	Horticultural facility utilizing electricity generated
③ Farm for school children	1 5 0 m ²	Farm for students to learn organic farming in a safe environment
④ Biosquare	1 0 0 m ²	Terrace for visitors to rest and socialize
⑤ Organic farming plots	9 0 0 m ²	Organic farm using agricultural materials produced by this project
⑥ Parking lot	3 0 0 m ²	Parking for visitors and employees

Project Schedule (As of June, 2022)

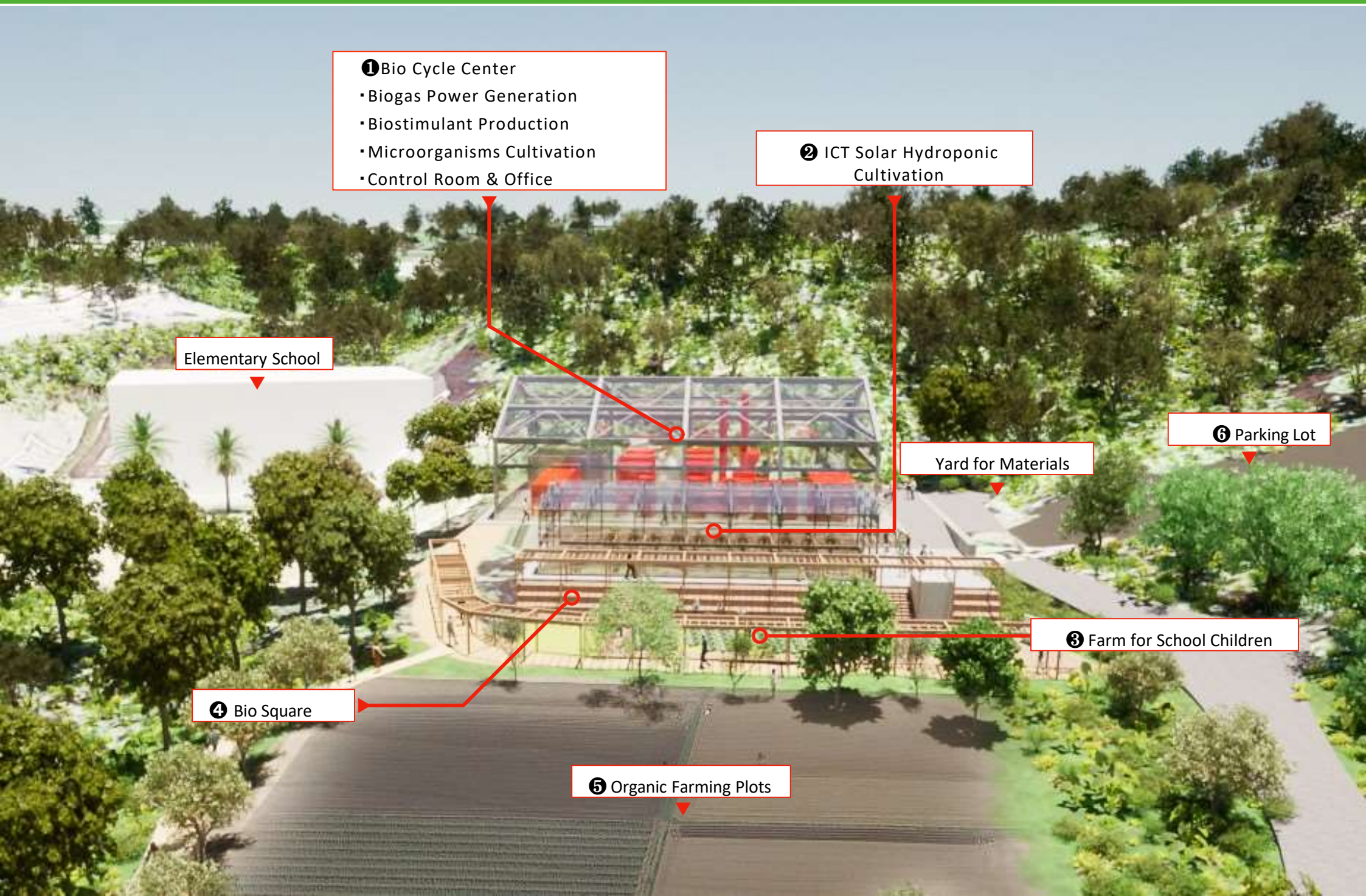
	2021	2022	2023	2024	2025
Preparation	████████████████████				
Inspection		████████████████████			
Equipment			████████████████████		
Construction			████████████████████		
Operation test				████████████████████	◆ Start on April 1st

Operation Outline (As of June, 2022)

Project Name	To Create a Village of Health and Welfare Utilizing Agriculture in Kitanakagusuku Village Project
Location	Kitanakagusuku Village, Okinawa prefecture
Project scale	(Plan) Approx. 5,485 m ²
Budget	(Plan) JPY560,000,000
Subsidy	Subsidy for Okinawa Promotion-Specific Project by Cabinet Office
Company in charge	EM Research Organization, Inc.
Design	Atelier Kadoguchi
Construction	Fukuyama Construction Co.,Ltd.

Location Planning

The proposed site is a gentle slope covered with dense vegetation, and to protect the natural environment, a terraced building layout is planned to construct.



- 1 Bio Cycle Center**
- Biogas Power Generation
 - Biostimulant Production
 - Microorganisms Cultivation
 - Control Room & Office

- 2 ICT Solar Hydroponic Cultivation**

Elementary School

6 Parking Lot

Yard for Materials

3 Farm for School Children

4 Bio Square

5 Organic Farming Plots