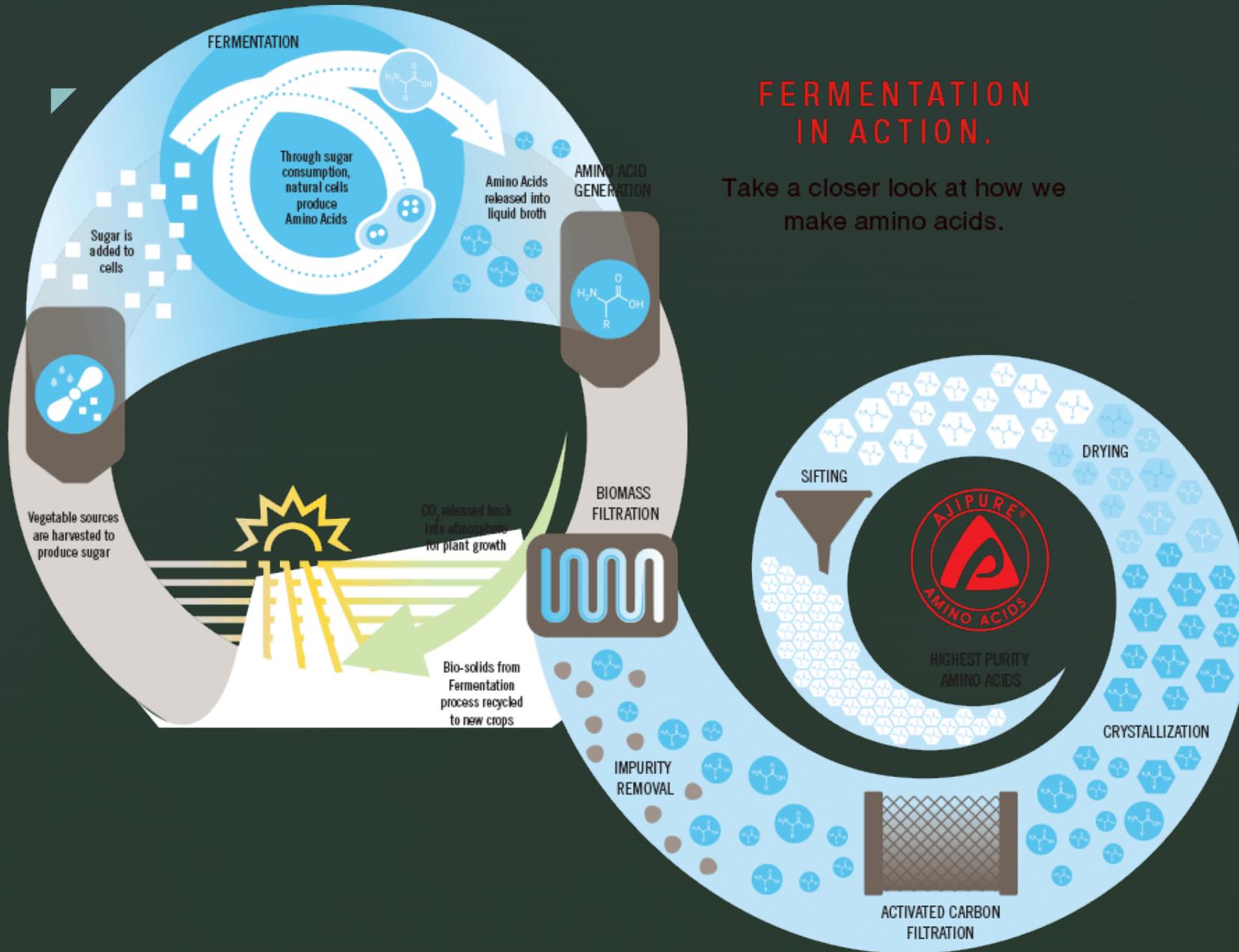


Presented by: Pahola Salas and Ricky McFarland



# Ajinomoto Health & Nutrition North America



## FERMENTATION IN ACTION.

Take a closer look at how we make amino acids.

# Significant Environmental Aspects

01

Offloading and storage of Isopropyl alcohol (IPA)

02

Offloading and storage of Methanol (MeOH)

03

Offloading and storage of Anhydrous Ammonia (NH<sub>3</sub>)

# Example of our Environmental Aspects



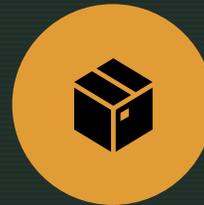
AIR EMISSIONS



ENERGY USE



TRANSPORTATION



PACKAGING



OTHER SOLID  
WASTE



WASTE WATER

# EMS Integration into Core Business Functions

Go Audits App – Utilized for detailed audits and inspections;

Learning Management System – On-line training modules to maintain environmental awareness in areas such as spill control, stormwater management and emissions reduction;

Capital budget for environmental needs at corporate and facility level;

EHS included on front end of the procurement review process;

Employee Awareness – Production floor employees are made aware of how their jobs and department impacts overall facility environmental performance;

Departmental Monitoring – Electronic information sharing to support environmental efforts;

EMS and EHS metrics informational boards available for environmental communication to employees. Start of shift meetings and monthly safety committee includes environmental;

Environmental Sustainability Communication Flyers address topics such as paper shredding, Adopt-a-Highway, ESI and the Wildlife and Industry Together Partnership (WAIT);

Packaging Use Reduction – Joint engineering efforts with corporate and sister facility to streamline final product packaging;

Earth Day activities include employee participation; and

Compost made available to employees during garden day

# Beyond Compliance



DEVELOPMENT OF  
EMPLOYEE  
INCENTIVE  
PROGRAM FOR  
ENVIRONMENTAL  
SAFETY  
AWARENESS  
(GOOD CATCH  
INCENTIVE  
PROGRAM)



ANNUAL INDOOR  
AIR QUALITY  
TESTING NEAR  
WASTEWATER  
OPERATIONS FOR  
ODORS AND  
EMISSIONS



PROCESS AND  
SANITATION  
CHEMICALS USED  
ON SITE REQUIRE  
APPROVAL BY EHS  
PRIOR TO USE TO  
PREVENT ANY  
POSSIBLE  
ENVIRONMENTAL  
HAZARDS OR  
IMPACTS.



HOUSEKEEPING  
CHEMICALS ARE  
VETTED TO AVOID  
ANY  
INTERACTIONS  
(CHEMICAL,  
QUALITY AND  
HEALTH) AND HELP  
MINIMIZE BOTH  
SAFETY AND  
ENVIRONMENTAL  
IMPACTS AVOID  
ANY  
INTERACTIONS  
(CHEMICAL,  
QUALITY AND  
HEALTH) AND HELP  
MINIMIZE BOTH  
SAFETY AND  
ENVIRONMENTAL  
IMPACTS



AJINOMOTO  
EMPLOYEE  
GARDEN –  
EMPLOYEE  
INVOLVEMENT  
PROJECT



DONATE BUCKETS  
TO WILDLIFE  
RESOURCES  
COMMISSION TO  
REDUCE  
LOWERING WASTE  
TO LANDFILL  
(REUSE).

# Beyond Compliance

We have established a team to help reduce and reuse the waste of DI water on-site

Condensate Recovery – Steam condensate from process lines is captured and used to supply deaerator in the utility department

Stormwater Protection – To increase stormwater protection, storm drains can be diverted to a holding tank for on-site wastewater treatment if necessary. Secondary containment around processes of every department.;

Installation of raw materials flow level indicators to detect the presence of leaks;

Noise concerns are addressed by using low noise filtering technology in production operations;

Throughout the production areas, gas leak detection checks conducted by departmental employees; and

Recycling of Pallets

Employee Electronics collection and recycling

Donate cell-cream and sludge to local Granville Farms for land application.

Share high BOD material