

BIOENERGY TECHNOLOGY • BIOGAS & DIGESTER SKILL DEVELOPMENT



NTHRYS
OPC PVT LTD



Biogas & Digester Cultures Industrial Manufacturing Training Programs

A complete industrial catalogue of hands-on biogas culture training modules — from digester start-up to biomethane upgrading.

56

PROGRAMS

10

CATEGORIES

2026

EDITION

Program Categories at a Glance

This catalogue lists every biogas and anaerobic-digester culture our training programs are equipped to manufacture and teach, organised into 10 technology streams. Each program carries a unique product code for easy reference, enrolment and certification.

Stream	Category Focus	Description	Count
NBG-SD	Digester Start-Up & Seed Cultures	Seed, granular & rapid start-up inoculants	6
NBG-MC	Methanogenic Cultures	Methane-producing archaeal culture production	5
NBG-HA	Hydrolytic & Acidogenic Cultures	Hydrolysis, acidogenic & acetogenic cultures	5
NBG-FS	Feedstock-Specific Digester Cultures	Dung, food, crop & industrial-waste cultures	8
NBG-YE	Biogas Yield-Enhancer Cultures	Yield-boosting, enzyme & co-digestion additives	5
NBG-PS	Process-Stability & Recovery Cultures	pH-crash, ammonia & shock-load recovery cultures	5
NBG-PU	Biogas Purification & Upgrading Bioproducts	H2S, CO2 & biomethane upgrading cultures	5
NBG-DM	Digestate & Slurry Management	Digestate enrichment, recovery & sanitation cultures	5
NBG-SS	Small-Scale & Specialty Biogas Cultures	Household, cold-climate & bio-CNG plant cultures	6
NBG-FT	Formulation & Delivery Technology	Liquid, powder, granular & concentrate formats	6
Total training programs			56

HOW TO READ A CODE

NBG – SD – 01

NBG Nthrys Biogas Program SD Category stream 01 Program number

01

CATEGORY • NBG-SD

Digester Start-Up & Seed Cultures

Seed, granular & rapid start-up inoculants

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-SD-01	General Digester Seed	Broad anaerobic start-up inoculant.
NBG-SD-02	Cow-Dung Seed Culture	Dung-based digester seed.
NBG-SD-03	Granular-Sludge Seed	UASB-type granular seed.
NBG-SD-04	Rapid Start-Up Culture	Fast-commissioning inoculant.
NBG-SD-05	Mesophilic Seed Culture	35 °C-range digester seed.
NBG-SD-06	Thermophilic Seed Culture	55 °C-range digester seed.

02

CATEGORY • NBG-MC

Methanogenic Cultures

Methane-producing archaeal culture production

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-MC-01	Methanogen Consortium	Methane-producing archaeal blend.
NBG-MC-02	Hydrogenotrophic Methanogens	H ₂ / CO ₂ -using methanogens.
NBG-MC-03	Acetoclastic Methanogens	Acetate-cleaving methanogens.
NBG-MC-04	High-Rate Methanogen Culture	Enriched high-activity culture.
NBG-MC-05	Archaeal Enrichment Culture	Concentrated methanogen culture.

03

CATEGORY • NBG-HA

Hydrolytic & Acidogenic Cultures

Hydrolysis, acidogenic & acetogenic cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-HA-01	Cellulolytic Hydrolysis Culture	Fibre-breakdown culture.
NBG-HA-02	Acidogenic Bacteria Culture	Acid-forming fermenters.
NBG-HA-03	Acetogenic Culture	Acetate-producing culture.
NBG-HA-04	Protein / Lipid Hydrolysis Culture	Fat & protein breakdown culture.
NBG-HA-05	Lignocellulose Pretreatment Culture	Biomass-softening culture.

04

CATEGORY • NBG-FS

Feedstock-Specific Digester Cultures

Dung, food, crop & industrial-waste cultures

8

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-FS-01	Cattle-Dung Digester Culture	FYM-based biogas culture.
NBG-FS-02	Poultry-Litter Culture	High-N poultry-waste culture.
NBG-FS-03	Food / Kitchen-Waste Culture	Wet food-waste digester culture.
NBG-FS-04	Crop-Residue / Agro-Waste Culture	Straw & stalk digester culture.
NBG-FS-05	Press-Mud / Distillery Culture	Sugar & distillery waste culture.
NBG-FS-06	Sewage-Sludge Culture	STP-sludge digester culture.
NBG-FS-07	Slaughterhouse-Waste Culture	Blood & offal digester culture.
NBG-FS-08	Napier / Energy-Crop Culture	Dedicated-crop biogas culture.

05

CATEGORY • NBG-YE

Biogas Yield-Enhancer Cultures

Yield-boosting, enzyme & co-digestion additives

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-YE-01	Yield-Boosting Consortium	Methane-yield enhancing blend.
NBG-YE-02	Enzyme-Enhanced Culture	Enzyme-assisted digestion culture.
NBG-YE-03	Trace-Element Supplement	Micronutrient digester additive.
NBG-YE-04	Buffer / pH-Stabiliser Culture	Alkalinity-balancing additive.
NBG-YE-05	Co-Digestion Synergy Culture	Mixed-feedstock booster.

06

CATEGORY • NBG-PS

Process-Stability & Recovery Cultures

pH-crash, ammonia & shock-load recovery cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-PS-01	pH-Crash Recovery Culture	Acidified-digester rescue culture.
NBG-PS-02	Ammonia-Inhibition Recovery	High-ammonia recovery culture.
NBG-PS-03	VFA-Balancing Culture	Volatile-fatty-acid stabiliser.
NBG-PS-04	Shock-Load Recovery Culture	Overload-recovery inoculant.
NBG-PS-05	Re-Start / Reseeding Culture	Failed-digester restart culture.

07

CATEGORY • NBG-PU

Biogas Purification & Upgrading Bioproducts

H₂S, CO₂ & biomethane upgrading cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-PU-01	Biological H ₂ S Removal Culture	In-situ desulfurisation culture.
NBG-PU-02	Biogas Biofilter Culture	Gas-scrubbing biofilter culture.
NBG-PU-03	CO ₂ -Scrubbing Culture	Biological CO ₂ -capture culture.
NBG-PU-04	Biomethane Upgrading Support	Bio-CNG purification culture.
NBG-PU-05	Siloxane / Trace-Gas Control	Trace-contaminant control culture.

08

CATEGORY • NBG-DM

Digestate & Slurry Management

Digestate enrichment, recovery & sanitation cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-DM-01	Digestate Enrichment Culture	Biofertilizer-fortifying culture.
NBG-DM-02	Slurry Stabilisation Culture	Odour & nutrient stabiliser.
NBG-DM-03	Digestate-to-Biofertilizer Culture	Field-grade conversion culture.
NBG-DM-04	Nutrient-Recovery Culture	N & P recovery inoculant.
NBG-DM-05	Pathogen-Reduction Culture	Digestate sanitisation culture.

09

CATEGORY • NBG-SS

Small-Scale & Specialty Biogas Cultures

Household, cold-climate & bio-CNG plant cultures

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-SS-01	Household Biogas Culture	Domestic-plant starter culture.
NBG-SS-02	Cold-Climate Digester Culture	Low-temperature active culture.
NBG-SS-03	Community / Portable Digester Culture	Pre-fab plant culture.
NBG-SS-04	Fixed-Dome Starter Culture	Masonry-plant seed culture.
NBG-SS-05	Floating-Dome Starter Culture	Drum-type plant culture.
NBG-SS-06	Bio-CNG Plant Culture	Compressed-biogas plant culture.

CODE	TRAINING PROGRAM	DESCRIPTION
NBG-FT-01	Liquid Inoculant	Ready-to-charge liquid culture.
NBG-FT-02	Powder / Dry Culture	Soluble dry-culture powder.
NBG-FT-03	Granular Culture	Granular start-up inoculant.
NBG-FT-04	Concentrated Seed Culture	High-density seed concentrate.
NBG-FT-05	Immobilised / Bead Culture	Carrier-immobilised cells.
NBG-FT-06	Tablet / Slow-Release Culture	Sustained-dose culture product.

ENROL • DIGEST • ENERGISE

Build a Career in Biogas Bioproducts

Every program in this catalogue is delivered as hands-on training on working anaerobic-digestion and gas-analysis equipment — covering strain & consortium handling, anaerobic culture, digester start-up & operation, yield optimisation, gas analysis & QC, packaging and bioenergy-compliance support. Mix and match programs to design a track that fits your goals.

56 training programs

10 technology streams

Unique **product code** for every module

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