Engineering.
Working systems.

HDPE piping. Cooling towers. Inspection and testing.

Installation, replacement and refurbishment for industrial facilities and buildings. Practical consultation and on-site assessment by arrangement.



Prior team field experience. Photo retouched for presentation.

NEW VALUE IN ENGINEERING

nuvaengineering.co.th | +66 98 624 6565

INSTALLATION & SYSTEM MODIFICATIONS

Piping and valves. Built around your site.

Defined work packages, replacement scopes and coordinated shutdown activities.

HDPE piping & pipe replacement

Installation, rerouting and replacement of HDPE water-system piping. Other pipe materials can be reviewed against project requirements.

Valves & associated components

Valve, flexible-joint, gasket, fitting and flange replacement. Selection considers size, connection standards, fluid, temperature and pressure.

Supports, fabrication & tie-ins

Pipe supports, mechanical interfaces and fabricated components within the agreed scope. Plan access, isolation and tie-ins before work.

Checks & handover

Agree the jointing method, inspection and applicable leak or pressure checks for the service conditions. Confirm deliverables and exclusions before execution.





ASSEMBLY, REPAIR & LIFECYCLE CARE

Cooling towers. Installed and maintained.

Tower & fan assembly

Field assembly of industrial and package cooling towers. Installation or replacement of fans, gearboxes and drive components to the agreed scope.

Fill & internal components

Fill, drift eliminators, nozzles and water-distribution components. Review type, dimensions, water quality and compatibility before replacement.

Maintenance & overhaul

Preventive maintenance, cleaning, drive-system servicing, alignment and worn-component replacement around shutdown availability.

Structural & FRP refurbishment

Repair damaged supports, structure and basins, with FRP work where specified. Equipment supply and turnkey installation can be coordinated.



Fan assembly and gearbox - prior work by our team.

Multi-manufacturer equipment and component sourcing, subject to suitability and confirmed supply scope.

MEASUREMENTS WITH CONTEXT

Understand condition. Assess performance.

Agree objectives, access, instruments, measurement points and evaluation criteria before testing.

01

General Inspection

Review accessible fans, drives, belts, pulleys, fill, nozzles, drift eliminators, basins, structure and supports. Identify wear, damage, leakage and visible operating concerns.

Observation list, site photos and recommended corrective work. Current or vibration measurements when included in the agreed scope.

02

Performance Test

Measure hot/cold water and entering-air wet-bulb temperatures, with water flow and electrical power within the agreed scope. Review range, approach and heat rejection where data are sufficient.

Measurement results, recorded operating conditions, assessment limitations and recommendations.

03

Airflow Test

Survey air velocity using an agreed measurement area and point layout. Assess airflow from suitable area and velocity data, while recording fan operating conditions.

Velocity survey, airflow assessment and the method, assumptions and limitations used.

ENERGY IMPROVEMENT

Assess fans, drives, controls and heat rejection together. Fill replacement does not automatically reduce fan power. Before-and-after comparisons consider load, water flow, weather and controls. Airflow testing alone does not establish thermal performance. Site reports are not third-party certification unless expressly included.

SELECTED SITE PHOTOGRAPHS

Experience grounded in fieldwork.



HDPE pipework

Routing, elbows and flanged connections.



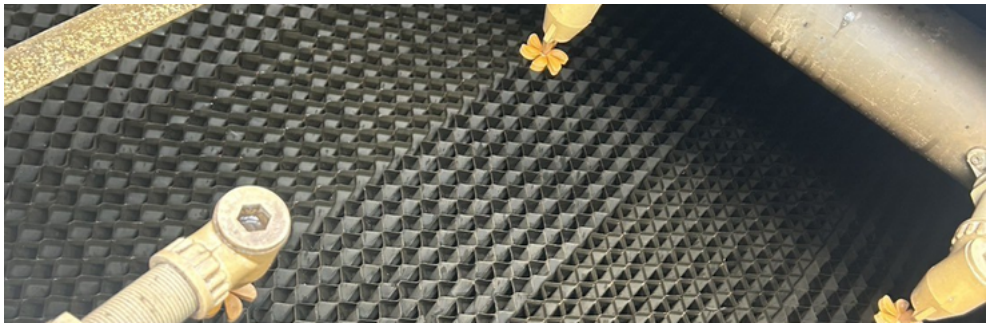
Fan assembly

Fan, gearbox and supporting components.



Drive-system inspection

Belt, pulley and drive-support condition.



Internal component inspection

Water-distribution nozzles and tower fill.

Photos illustrate prior work and field experience of the team; not every project was contracted under NUVA. Fan assembly photo retouched for presentation.

LET'S DEFINE THE RIGHT SCOPE

Technical advice. On-site assessment.

We can review your information and arrange a site visit. Survey scope, access and timing are agreed in advance.

01 / DISCUSS

Share the issue, equipment details, site location and operating constraints.

02 / ASSESS

Review available information and arrange site assessment where needed.

03 / DEFINE

Agree the technical scope, deliverables, exclusions and work schedule.

04 / EXECUTE

Complete agreed site work and checks, then provide handover information.

CONTACT NUVA ENGINEERING

Preecha Yammanat

NUVA Engineering Co., Ltd. | Bangkok, Thailand

+66 98 624 6565

preecha@nuvaengineering.co.th

nuvaengineering.co.th

Add us on LINE