

MVM EGI

YOUR RELIABLE PARTNER FOR COOLING SOLUTIONS



ABOUT MVM EGI



Profile: Globally active cooling system provider
Consultancy, design, engineering, delivery, after sales



Manufacturing: Fully owned factory in Wuqing, CN



Founded in 1948 as EGI
GEA Group 1992-2014, ENEXIO 2014-2020



Financials: 57.8 mn € net revenue in 2020
Stable, profitable company in the past 20+ years



Owner: MVM Group (100% Hungarian state owned)
The largest power-utility company in CEE region

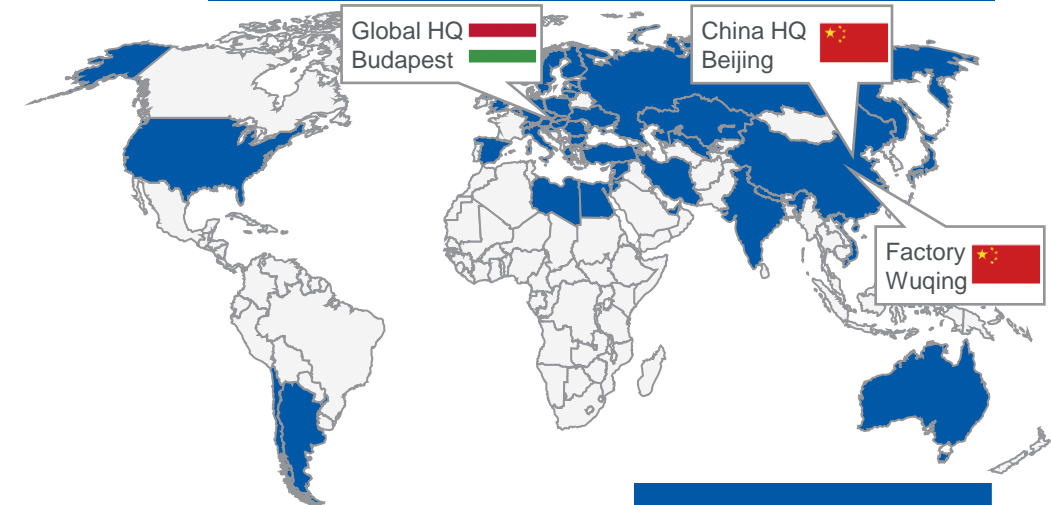


Headcount: 170 (69 Budapest, 70 Beijing, 31 Wuqing)
Headquarters: Budapest, Hungary

MVM EGI Factory in Wuqing, China



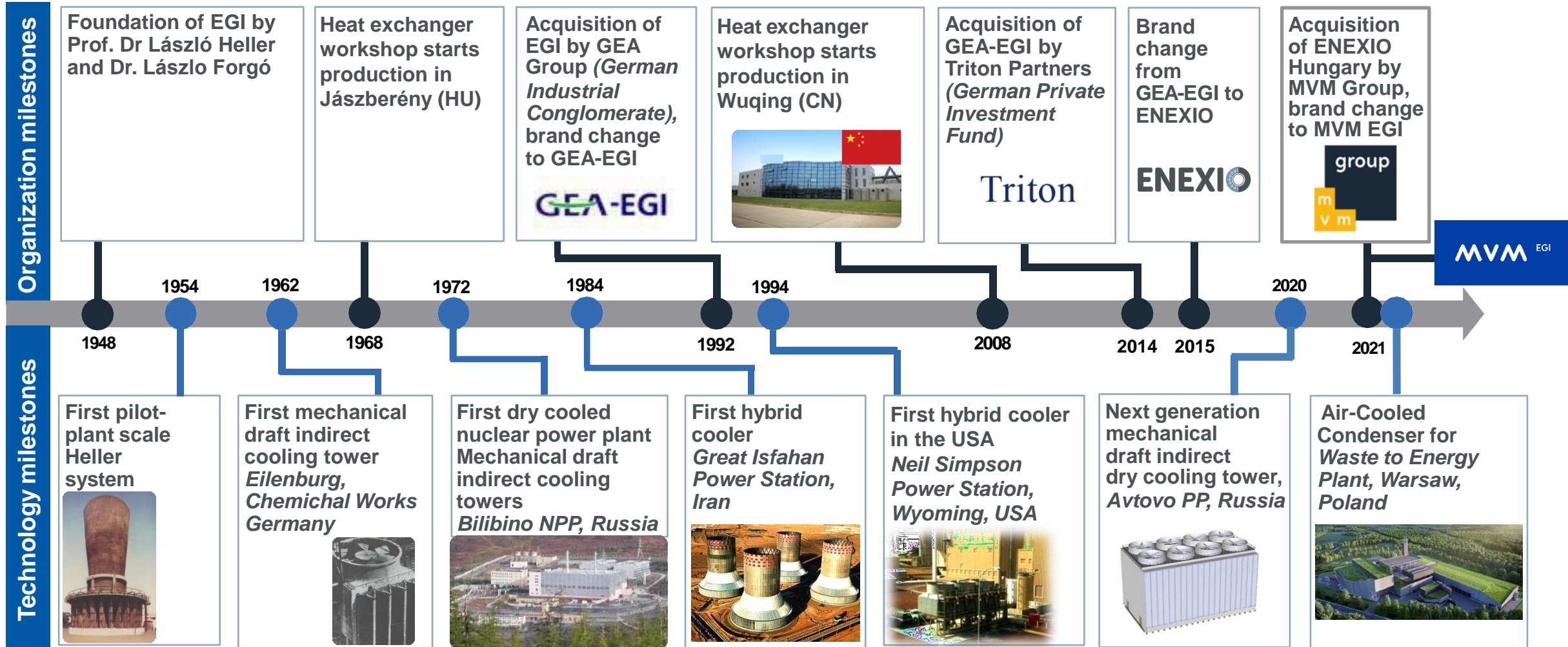
Global supply track record



MVM EGI

ABOUT MVM EGI

Technology leader with strong Hungarian engineering heritage



ABOUT MVM GROUP

The largest power utility company in CEE region

5.6
BILLION EUR
SALES

406
MILLION EUR
EBITDA

4TH
LARGEST COMPANY IN
HUNGARY BY SALES

13TH
LARGEST COMPANY IN
CENTRAL EUROPE BY
SALES

65,800
KM OF TRANSMISSION AND
DISTRIBUTION LINE NETWORK

4.2^M
DIRECT
CUSTOMERS

41^{TWH}
OF ELECTRICITY
SOLD/YEAR

10.9B
M³
OF NATURAL GAS
SOLD/YEAR

4.4B M³
OF NATURAL GAS
STORAGE CAPACITY

12,300
EMPLOYEES
(CIRCA.)

HELLER INDIRECT DRY COOLING (IDCT)

Invented by EGI in the early 1950s, Heller System® has gained worldwide recognition as the ultimate dry cooling choice where minimum life cycle costs are in focus. The cooling tower can either be of natural draft (concrete or steel) or of mechanical draft type.

Main benefits:

- All-dry cooling, zero water use
- Lowest operational cost and highest operational availability (natural draft tower)
- Noiseless and can diminish ground level pollution (natural draft tower)
- Smallest vacuum space among dry power cooling systems (both natural and mechanical draft towers)
- Limited visual impact (limited height of mechanical draft tower)
- Flexible placement on plot area, solution for site constraints
- The only dry cooling solution suitable and proven for the main cooling of Nuclear Power Plants (48MW NPP reference in operation for 40+ years)
- Provides ultimate resistance to freezing even in partial load winter operation



AIR-COOLED CONDENSER (ACC)

Invented by GEA in the 1930s, the Air-Cooled Condenser has gained worldwide recognition as the mainstream dry cooling choice where minimum investment costs are in focus.

Main benefits:

- All-dry cooling, zero water use
- Reduced investment cost
- Reduced-noise application possibility
- Limited visual impact (limited height)
- Compact design, efficient plot area use



EVAPORATIVE COOLING TOWERS

MVM EGI offers a wide range of evaporative cooling towers, field-erected (FECT) and packaged. MVM EGI cooling towers offer high performance and efficiency.

Main benefits:

- **Low investment cost**
- Compact structure
- Limited visual impact (limited height of mechanical draft tower)
- Flexible placement on plot area, solution for site constraints
- Perfect resistance to corrosion
- **Large selection of structural materials (Concrete, FRP, Stainless Steel, HDG Steel)**



HYBRID DRY/WET COOLING TOWERS

MVM EGI offers a wide range of hybrid dry/wet cooling towers for every application, from 0.5MW to 1200MW

Main benefits:

- Reduced water consumption compared to all-wet solutions (~50-70% annual water saving)
- No visible plume in winter conditions
- No icing in winter conditions
- Suitable for cold climates
- Suitable for urban and critical environments (e.g., chemical plants)
- Higher year-round energy generation than with all-dry systems, while water consumption remains significantly below that of evaporative cooling
- Smaller investment for the same heat rejection than with an all-dry system



DRY COOLING SPECIAL APPLICATIONS

MVM EGI offers unique know-how in design and supply of dry-cooling solutions for Emergency Cooling of Nuclear Power Plants and for other power plant and industrial applications.

Main benefits:

- Fully tailor-made
- Reliability even in harshest climates
- Cooler lifetime same as plant lifetime
- Almost completely maintenance-free solutions (natural draft or mechanical draft equipped with direct-drive motors)
- Austenitic stainless steel 316L heat exchanger



CIRCUMIX ASH HANDLING

The environment-friendly Circumix technology provides a comprehensive solution to ash and wastewater management in coal-fired stations.

The main benefits are:

- Meets stringent environmental Coal Combustion Residuals (CCR) regulations (e.g., EPA of the USA)
- Available both as new-build or retrofit add-on
- Simple and reliable to operate
- Supports combined disposal of solid and liquid waste (including FGD effluents) from coal firing plants
- Low operational and maintenance costs over the full technical life-time (15 – 20+ years)
- Limited water use
- Low electrical power consumption
- Small pipeline diameters
- Cemented end-product: physical stability, no risk of spill, no fugitive dust



Bottom ash thickener

Circumix® mixers under installation



Dense slurry pumped to ash pond and after solidification

PRODUCT PORTFOLIO

Excellence in engineering and highest quality project execution

		HELLER INDIRECT DRY COOLING	AIR-COOLED CONDENSERS	EVAPORATIVE COOLING TOWERS	HYBRID DRY/WET COOLING TOWERS	DRY COOLING SPECIAL APPLICATIONS	CIRCUMIX ASH HANDLING
POWER PLANTS	COAL FIRED	X	X	X	X	X	X
	COMBINED-CYCLE	X	X	X	X	X	
	NUCLEAR	X		X	X	X	
	BIOMASS & W2E	X	X	X	X	X	
	CONCENTRATED SOLAR	X	X	X	X	X	
	DATA CENTERS	X		X	X	X	
	CHEMICAL PLANTS	X		X	X	X	
	INDUSTRIAL APPLICATIONS	X	X	X	X	X	

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