

ORC Systems with Armak Gas Pressure Motors Electricity from waste heat or from solarthermics

Why use Armak Gas Pressure Motors in ORC systems?
Photovoltaic does produce electricity. CHP systems driven by combustion engines produce electricity and heat.

ORC Systems however produce electricity from **waste heat**.
This technology has successfully been in use for decades, usually in the MW range.

ORC systems in the power range from 3 to 50 kW electric today still are exceptions. But there is a great demand.

Turbines as generator drive in this power range are not the best solution.
This is the application area of Armak Gas Pressure Motors GGP range.

There are a great many heat sources for this power range.

Consider CHP plants with electric output from 100 to 500 kW. The combustion engine driving these plants has a theoretical efficiency below 40%. The rest is waste heat. To utilize even a fraction of the loss makes sense.

Which is possible when adding an ORC system to the CPH plant with an Armak Gas Pressure Motor as generator drive.

Other possible heat sources are solar power systems, either mirror or collector, who will vaporize a suitable fluid which then drives the Armak Motor.

Armak Gas Pressure Motors can be supplied as GGP04 with max. 3.5 kW at 15 bar and 3.000 rpm or as GGP16 with max. 30 kW at 15 bar and 3.000 rpm for use with coolants.

Steam Motors are being developed.

Should you consider planning a new ORC system – we can supply the generator drive.

With best regards
Armak GmbH - Motoren
Wolf Krisch

