



## New Grohe Factory Klaeng, Thailand



building type	Factory building
client	Grohe Siam Co., Ltd.
architect	OIA Co., Ltd.
our services	<ul style="list-style-type: none"> <li>• Energy concept</li> <li>• Building Simulation</li> <li>• Building Physics</li> <li>• Commissioning Management</li> <li>• DGNB consulting</li> </ul>
project data	14,800 m <sup>2</sup> factory;
project duration	10 / 2016 – 08 / 2017

### Balance between ecology and economy!

The new Grohe Zinc Die Casting Factory Project is a detached extension building on the Grohe Siam industrial real estate in Klaeng, Rayong, Thailand. To show Grohe's commitment to sustainability, the management decided to strive for a silver certification according to the German Sustainable Building Council DGNB.

Therefore, Grohe has contracted EGS-plan to develop a sustainability concept for the 14.800 m<sup>2</sup> building. Main goal of the concept is to achieve a good balance between the ecologic, economic and socio-cultural quality of the building. To achieve a sufficient thermal comfort in the non-air-conditioned production area the climate concept comprises thermal insulation in the roof to reduce long wave radiation, enhanced natural ventilation and a balanced window-to-wall ratio.

Further sustainability features are a ecological water concept, green resting areas in and outside the building and a 1200 kWp photovoltaic system. The sustainability concept of the new Grohe Zinc Die Casting Factory is unique in Thailand and is the first DGNB certified factory building in South-East Asia.

