



# Prukso+ Bangkok, Thailand



building type	Residential building
client	Prukso Real Estate PLC
architect	unexpected architects 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	141 m <sup>2</sup> GFA; 80 m <sup>2</sup> air conditioned
project duration	10 / 2014 – 03 / 2017

## Southeast-Asia's most sustainable Residential House

The Prukso+ house is a single-family house which was designed for one of Thailand's biggest real estate developer Prukso to be a pilot project with outstanding sustainability and an innovative energy concept.

It comprises many sustainability features such as ecological and healthy building materials, excellent thermal comfort and air quality, reduced water consumption, handicapped accessibility and a flexible media infrastructure like a grand number of receptacles and internet connections. The core of the building concept is the energy concept which consists of a cost optimized combination of passive energy efficiency measures such as an external shading of the facade, thermal insulation of the roof and walls, double glazing and insulated window frames as well as a consequent air-tightness concept of the building envelope. On part of active measures a 5 kWp photovoltaic system covers a significant part of the energy consumption in combination with a small chiller and an ice storage system.

For its outstanding energy and sustainability concept, the building was awarded as the first building in South-East Asia with a DGNB Platinum certificate.

