

Case Study Flyer: Energy plus house (energy efficiency), Rizhao, China		
City: RIZHAO	CONSULTANCIES UNDERWAY	BUILDING ENERGY & SANITATION TECHNOLOGY
PROONENTS		GEOGRAPHY AND POPULATION
<p>Department of Building Energy and Science & Technology</p> <p>Mr. Yu, Guanghui E-mail: rzjwjk@126.com M: +86 135 0633 3629</p>	<p>GIZ Urban Nexus: National Coordinator</p> <p>Xu Yue yue.xu@giz.de</p>	<p>A typical costal city with two middle-sized commercial seaports. Its total population amounts to 3 million with the central urban part ca. 0.8 million.</p> 
<p>Local Partner Rizhao Bureau of Housing and Urban-rural Development BoHURD</p>	<p>National Partner Chinese Ministry of Housing and Urban-rural Development (MoHURD)</p>	
KEY CITY DEVELOPMENT ISSUES		
<p>Based on the facts that China has the enormous number and increasing density of its urban population, a rising pressure has been exerted on its urban energy supply and development. Sustainable and resilient infrastructures are required to ensure an environmentally friendly green growth.</p>		
DETAILS OF COOPERATION		INTERVENTION AREA
<p>GIZ Urban Nexus supported activities included:</p> <ul style="list-style-type: none"> Nexus Energy Plus House as a demonstration model including photovoltaic power generation and solar thermal appliances Innovative waste water management with link to energy generation, treated waste water for irrigation and residues for agricultural usage (separation of steams) 		 <p>Design Plan of Antai Mingzhu Residential Community</p>
EXPECTED DEVELOPMENTAL IMPACTS		
<ul style="list-style-type: none"> BoHURD pro-actively integrates energy efficiency of buildings and energy plus houses including the promotion of solar energy (thermal and PV) and innovative waste water management in their policy guidelines. Local developers include energy plus houses/buildings in their building development schemes and urban settlement planning (new business model) Innovative waste water management is included in urban settlement planning & implementation of local developers 		
EXPECTED INVESTMENT FOLLOW UP	ESTIMATED INVESTMENT VALUE	SOURCES OF FINANCING
		Rizhao BoHURD and local real estate developers
GIZ NEXUS TECHNICAL ASSISTANCE SUPPORT	Technical advisory services, capacity building	
CITY CONTRIBUTION	Logistics, financial support, plot of land for Nexus Energy Plus House	