Case Study Flyer: Energy plus house (energy efficiency), Rizhao, China

<table>
<thead>
<tr>
<th>City: RIZHAO</th>
<th>CONSULTANCIES UNDERWAY</th>
<th>BUILDING ENERGY &amp; SANITATION TECHNOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GIZ Urban Nexus: National Coordinator</td>
<td>GEOGRAPHY AND POPULATION</td>
</tr>
<tr>
<td></td>
<td>Xu Yue <a href="mailto:yue.xu@giz.de">yue.xu@giz.de</a></td>
<td>A typical coastal city with two middle-sized commercial seaports. Its total population amounts to 3 million with the central urban part ca. 0.8 million.</td>
</tr>
</tbody>
</table>

PROPOUNENTS
Department of Building Energy and Science & Technology
Mr. Yu, Guanghui
E-mail: rzjwink@126.com
M: +86 135 0633 3629

Local Partner
Rizhao Bureau of Housing and Urban-rural Development
BoHURD

National Partner
Chinese Ministry of Housing and Urban-rural Development (MoHURD)

KEY CITY DEVELOPMENT ISSUES
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.

DETAILS OF COOPERATION
GIZ Urban Nexus supported activities included:
- 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 steam)

EXPECTED DEVELOPMENTAL IMPACTS
- 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
GIZ NEXUS TECHNICAL ASSISTANCE SUPPORT
- Technical advisory services, capacity building

CITY CONTRIBUTION
- Logistics, financial support, plot of land for Nexus Energy Plus House

ESTIMATED INVESTMENT VALUE
SOURCES OF FINANCING
Rizhao BoHURD and local real estate developers