Background

Capacity and Reserve Margin

- Aceh/Sumut: 1788 MW -9%
- SumBar/ Riau: 1194 MW -2,7%
- BaBel: 130 MW -10,8%
- SumBagSel: 1493 MW -4,1%
- KalBar: 406 MW -8,4%
- KalSelTeng: 543 MW -0,2%
- KalTimra: 467 MW 0,9%
- SulSelBar: 1024 MW 21,6%
- SulUtTenggo: 543 MW -0,2%
- NTT: 141 MW 9,9%
- Maluku: 140 MW -3,8%
- Papua: 205 MW 5,8%
- JaMali: 23900 MW 31%

Source: ESDM/UP3KN 2015
Background

Electrification Ratio 2011 (RUEN: 85% in 2023)

Source: ESDM (approximations)
Belitung Biogas

Belitung:
Built as CDM plant – but with power generation in mind

- 60 tph palm oil mill
- Design: AANE
- CDM registration 2009
- 1,2 MW from Q4-2013
- 1,8 MW from Q3-2015
History Belitung
History Belitung

The plant in March 2012
History Belitung

Power house

Trafo room

Radiator area

Inside the engine room

Inside the PLN metering panel room
History Belitung
Bupati Dr. Basuri: „A big step towards Eco Regency East Belitung“
Rida Mulyana (Dirjen EBTKE): „...the first biogas IPP in Indonesia“
Ari Wardana (GM PLN): „We will save 2.5 mio USD each year“
**Performance Belitung**

<table>
<thead>
<tr>
<th>Grid situation</th>
<th>PLN Belitung</th>
<th>AANE Biogas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Capacity:</td>
<td>41.7 MW</td>
<td>1.2 MW</td>
</tr>
<tr>
<td>Net Power generation:</td>
<td>ca 230 GWh</td>
<td>8.6 GWh</td>
</tr>
<tr>
<td></td>
<td>ca 3%</td>
<td>ca 4%</td>
</tr>
</tbody>
</table>

This is enough for more than 2500 small households and this is saving more than 2 mio USD energy subsidies annually.
...improved supply base
...stabilised grid section
...joint efforts to improve grid quality
Benefits…

…for local communities: better quality of power supply
…for investors: sustainable revenues
…for plantations: reduces emissions and improved image
…for central government: reduced energy subsidy
Thank you very much

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