Applicability of the Dutch ‘Energiesprong’ model to British Columbia

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**Energiesprong**
- Whole house refurbishment
- Innovative funding

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**Before Refurbishments**

<table>
<thead>
<tr>
<th>House</th>
<th>Rent</th>
<th>Energy cost</th>
<th>Occupants</th>
</tr>
</thead>
</table>

**After net-zero Refurbishments**

<table>
<thead>
<tr>
<th>Net-zero house</th>
<th>Energy Savings Company</th>
</tr>
</thead>
</table>

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**Key Players**
- Social housing providers
- The Government
- Finance Providers
- Manufacturers
- Construction company
- Tenants

**Key Processes**
- Market aggregation
- Policy adjustments
- Management such as BIM or JIT
- Energy Modeling
- Installations
- Monitoring & Maintenance

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**Fit-Gap analysis for Energiesprong Business Model approach in British Columbia**

<table>
<thead>
<tr>
<th>BM Components</th>
<th>Potential Fits</th>
<th>Potential Gaps</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Value Proposition</td>
<td>Guarantee for Energy performance and Indoor environmental quality</td>
<td>Diverse weather affects energy performance</td>
</tr>
<tr>
<td>The Supply Chain</td>
<td>BIM for energy auditors, Just in time (JIT) for manufacturers</td>
<td>Significant distance among major cities</td>
</tr>
<tr>
<td>The Customer Interface</td>
<td>One stop shop strategy</td>
<td>Policy</td>
</tr>
<tr>
<td>The financial model</td>
<td>Revenue over the long term</td>
<td>Policy</td>
</tr>
<tr>
<td>The BM governance</td>
<td>One team coordination, Energy supply contract</td>
<td>Policy</td>
</tr>
</tbody>
</table>

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**Conclusions**

**Key factors for Energiesprong implementation in BC**

- Approximately 100,000 Non-profit affordable housing built before 1990

**Potential first market for Energiesprong**

- Does not facilitate sustainable retrofits
- A challenge which requires further research

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**Key References**
1. Frontier Economics et. al, 2016
5. M. Almeida and M. Ferreira, “Ten questions concerning cost-effective energy and carbon emissions optimization in building renovation”.  
6. Energiesprong.eu