Green ICT – The Malaysia’s Perspectives
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**Background**

- Key milestone for ICT industry in Malaysia started in 1997 when MSC Malaysia became the national agenda for nation’s development.
- Malaysia had pushed for eGovernment program as one of its flagship initiative under the MSC Malaysia.
- In April 2009, the Ministry of Energy, Green Technology and Water was established in a cabinet reshuffle to replace the Ministry of Energy, Water and Communications.
- The concept of green ICT was introduced in Malaysia quite recently and it is still at a nascent stage in Malaysia.
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Background

NATIONAL GREEN TECHNOLOGY AND CLIMATE CHANGE COUNCIL

DEVELOPMENT OF GREEN TECHNOLOGY ROADMAP

SECTORS IN SCOPE

ENERGY
BUILDING
MANUFACTURING
GREEN ICT
TRANSPORTATION
WATER & WASTE MANAGEMENT
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ICT Sector Green Initiatives

a) e-Hasil
• Provide online services for income tax purposes such as filing and payment.

b) e-Perolehan
• Official Portal for Malaysian Government Procurement.

c) MyEG
• Improve public delivery through greater convenience and accessibility at a small fee. It allows the public to easily acquire information about driver’s licenses, traffic summonses, paying electric bills and paying water bills.

d) SME e-Commerce project – Mdex.my
• To provide an online platform in 2010 that allows buyers and sellers to do business without having to travel.

e) Online banking (CIMB Clicks & Maybank2u.com)
f) Green@Basis Bay Data Centre (Green Data Centre)
• Promotes the adoption of green technology through its sustainable services and offerings.

g) DiGi Deep Green
h) ASTRO’s Environmental Strategy Plan
i) Green Directory
j) BCIS – Online building consumption input system (reporting system energy efficiency)
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### Green Growth Strategies in ICT Sector – Key Focus Areas

<table>
<thead>
<tr>
<th>Category</th>
<th>Focus Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>eServices</strong></td>
<td>• Enabling SMEs and citizens with e Services</td>
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<td></td>
<td>• E-Government</td>
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<td></td>
<td>• Legalized e-Docs</td>
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<tr>
<td><strong>Green Data Center</strong></td>
<td>• Developing green data center</td>
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<td></td>
<td>• Consolidation of government hosting</td>
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<td></td>
<td>• Enhancing awareness among business</td>
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<tr>
<td><strong>Unified Communication</strong></td>
<td>• Enabling increased participation of local players</td>
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<td></td>
<td>• teleworking</td>
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<tr>
<td><strong>Green ICT Practices (3Rs)</strong></td>
<td>• Enabling government agencies with green ICT practices</td>
</tr>
<tr>
<td></td>
<td>• Enabling enterprises with green ICT practices</td>
</tr>
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<td>• Standards for IT equipment and labelling</td>
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Green Growth Strategies in ICT Sector – Key Focus Enablers

- Key focus enablers refers to the supporting structure to ensure all the relevant strategies under KFA achieve the maximum result.

- Human capital as core enablers

- Infrastructure to support the implementation

- Financial incentives to increase adoption and encourage the industry development

- Holistic regulatory framework towards sustainable green economy

- Innovation
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Implementation Approach

Wave 1
(2011-2015)
- Developing green data standards
- Telecommuting and teleworking
- Promoting local companies to provide business services related to Green ICT
- Enhancement of e-Government initiatives

Wave 2
(2016-2020)
- Enabling SMEs / consumers with eServices
- Enabling organization with green ICT practices
- Legalizing e-Documents

Wave 3
(2021-2025)
- Consolidation of data centers for governments
- Enabling increased participation of local players
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Target KPI for ICT Sector

<table>
<thead>
<tr>
<th>KPIs</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Social</td>
<td>Economic</td>
<td>Innovation</td>
<td></td>
</tr>
<tr>
<td>No. of Green Jobs</td>
<td>19,686</td>
<td>27,240</td>
<td>31,704</td>
<td>36,918</td>
</tr>
<tr>
<td>Contribution to national GDP</td>
<td>3,277.4</td>
<td>8,552.0</td>
<td>22,557.2</td>
<td>50,710.2</td>
</tr>
<tr>
<td>Contribution to national GNI</td>
<td>3,212</td>
<td>8,381</td>
<td>22,106</td>
<td>49,696</td>
</tr>
<tr>
<td>R&amp;D Spending (RM Million)</td>
<td>33</td>
<td>72</td>
<td>108</td>
<td>254</td>
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THANK YOU