## Digital Grid actively controls T&D

<table>
<thead>
<tr>
<th></th>
<th>Current Grid</th>
<th>Smart Grid</th>
<th>Digital Grid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Generation</strong></td>
<td>Controllable</td>
<td>Not Controllable</td>
<td>Not Controllable</td>
</tr>
<tr>
<td><strong>Transmission &amp; Distribution</strong></td>
<td>Passive</td>
<td>Passive</td>
<td>Active Control</td>
</tr>
<tr>
<td><strong>Demand</strong></td>
<td>Not Controllable</td>
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</tbody>
</table>
Concept of Digital Grid

Large synchronous grid
(all the generators and motors are synchronized to the grid frequency)

Smaller standalone Cell Grids
(with asynchronous connection)

IP address

Digital Grid Router™

- VSC inverter
- Multi-leg router

Cell Size: State, City, Town, Village, Factory, Building, House, etc.

Multi-Layer & Nesting

Smaller Cells
Trunk and leaves with sun-shine

Current Grid: Trunk

Stand alone Cells: Leaves

“Internet-like Power Grid”

Existing AC grids

Service Provider

Thermal Power

Industries

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