The integrated system of energy & water management
## Auroville windpark near Coimbattore

<table>
<thead>
<tr>
<th>Location</th>
<th>Annual production</th>
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<tbody>
<tr>
<td>Varuna I</td>
<td>Puttur</td>
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<tr>
<td>Varuna II</td>
<td>Manur</td>
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<tr>
<td>Varuna III</td>
<td>Manur</td>
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<tr>
<td>Varuna IV</td>
<td>Mallukumalai</td>
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<tr>
<td><strong>Total annual production</strong></td>
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</tbody>
</table>

Total electricity consumption of Auroville >> 3.200 MWh

Consumption of connections to be fed by underground cable >> 1.700 MWh

Projected consumption of desalination plant in first phase >> 0.700 MWh
Production cost of desalinated water per m³

- Energy (2.2 kwh / m³): Rs. 7
- Maintenance of plant (per annum 2% of investment): Rs. 3
- Depreciation of plant (per annum 5%): Rs. 7.5
- Labour etc: Rs. 2.5
- Total cost per m³: Rs. 20

Total cost per aurovilian per day for domestic water: Rs. 2.85
Today`s total water-consumption of all av-borewells:

- Domestic use per day: 500 m³
- Agricultural use per day: 1000 m³
- Total groundwater consumption: 1500 m³

First phase desalination plant: 1000 m³
Schematic view of uphill power storage
Thank You!

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