Stadtwerke Gandhigram – Multi Utility Company

By, Sreenath C iPLON India Pvt Ltd



Be the change you want to see in the world - Mahatma Gandhi

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Designil

iPLON Gandhigram Office



iPLON Gandhigram Staff

New office near GRI since March 2017

- Lumine Divya A M.Tech Renewable Energy (2014-2016)
- Elakiya M M.Tech Renewable Energy (2015-2017)
- Venkateswaran M --M.Tech Renewable Energy (2014-2016)
- Students from GRI

iPLON Chennai Staff

- 8 Master students from Renewable Energy (2014-2016)
- 2 Master students from Renewable Energy (2015-2017)

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Focus areas

- Energy management
- Water Management
- Waste Management

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• E-mobility



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"An ounce of practice is worth more than tons of preaching" - Mahatma Gandhi

Why Stadtwerke Gandhigram???

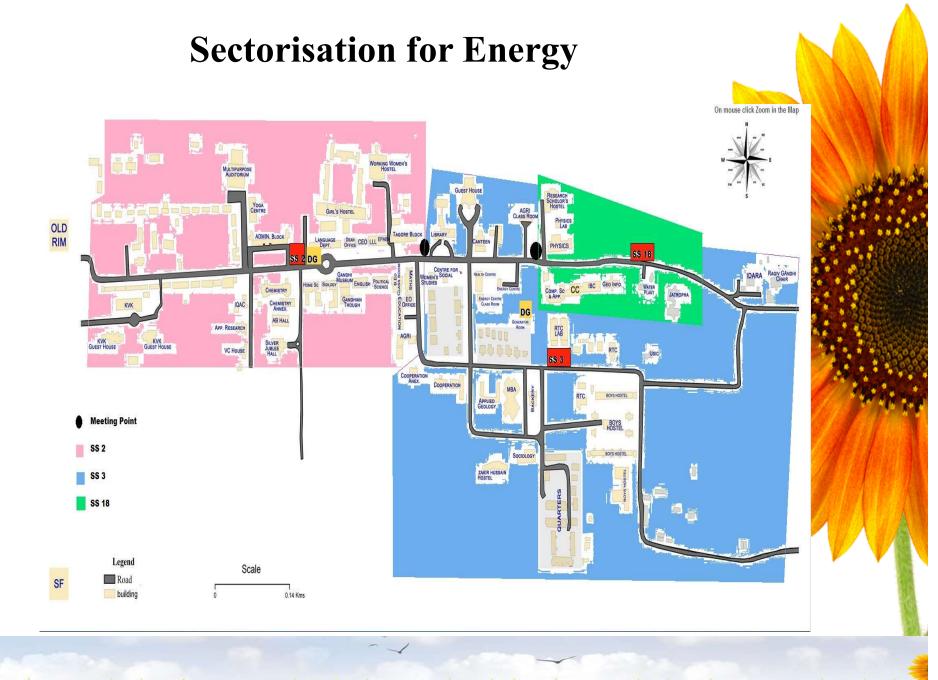
- Because of De-central thinking (Gandhian Principles)
- Past achievements (solar street lighting, biogas plant. electromobility)
- Aware (respect for Energy, Water, Cleanliness)
- Domain Knowledge
- Possibility to make a difference
- Already motivated

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Energy Management

- 1. Sectorisation
- 2. Architectural Diagram of three Transformers
- 3. Monitoring of SS02 transformer using iBox demand side management (SS 18)
- 4. Installation of Smappee Box
- 5. Simulation





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AD for Three Transformers Electrical Distribution from 200 kVA and SS 18 Load Distribution Panel Faculty Guest House Examination Hall Physics Library 70 x 3.5 sq mm Health Centre IT Compute Science Water Treatu E-Content GIS 50 x 3.5 sq mm REC Annexe REC 120 x 3.5 sq mm 40 x 3.5 s RTC Economic Load Distribution Pan (15 Departments) **Electrical Distribution from SS03** - OH Line Sociology GENERATOR ROOM Guest House UG Cable 0.5 ft Tagore Block Staff Quartres Staff Quartres USIC Mathematics Estate Office MBA Boy's Hostel Staff Quartres an and a second second way was a provident of the second second second second second second second second second AN AN AN AN ANAL ALL AND AND AND AND AND A ANAL ASIGAN SIGANAL

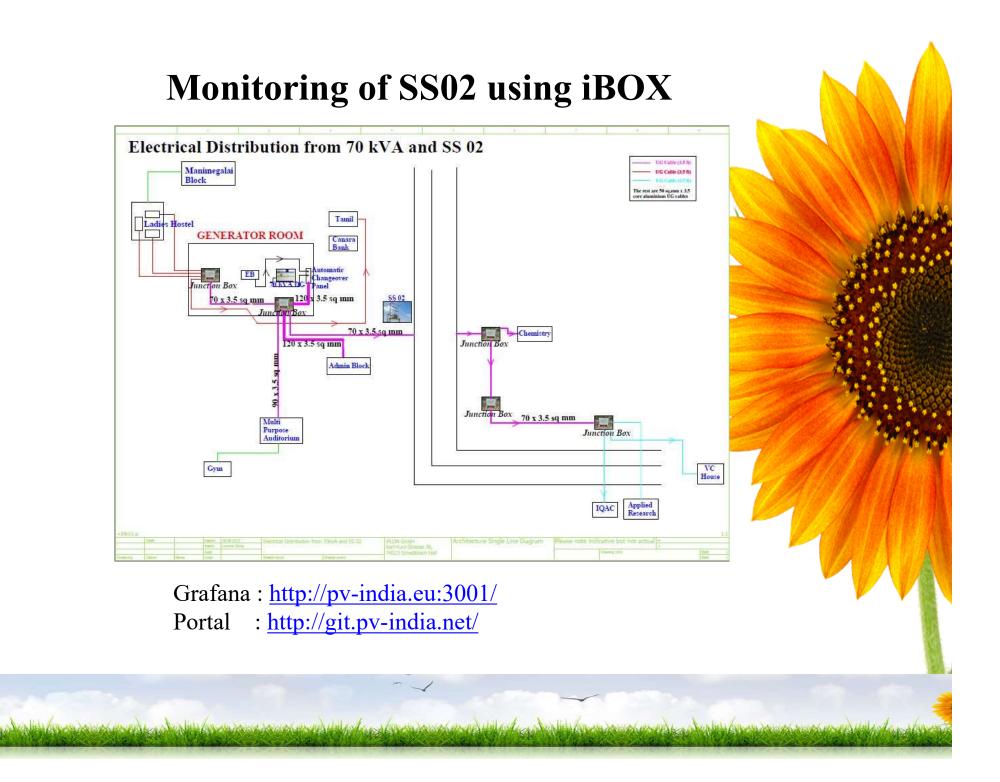


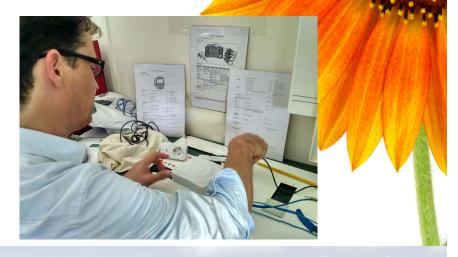
Image of iBox monitoring SS02



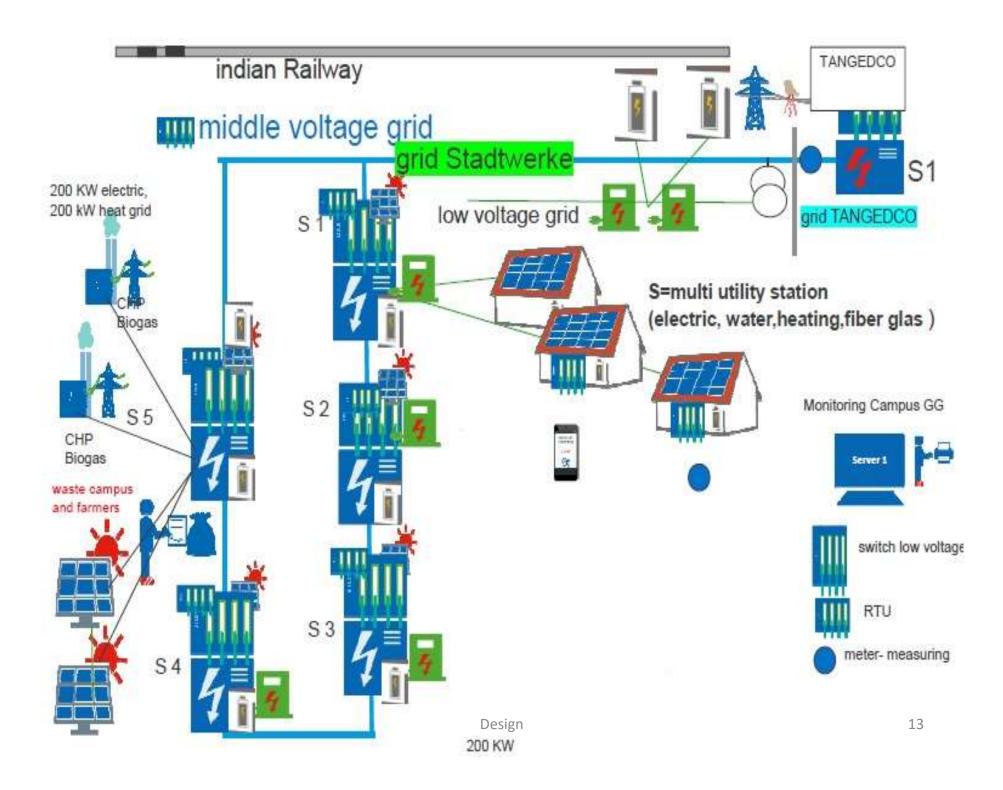
Image of Smappee energy monitor installed in REC laboratory

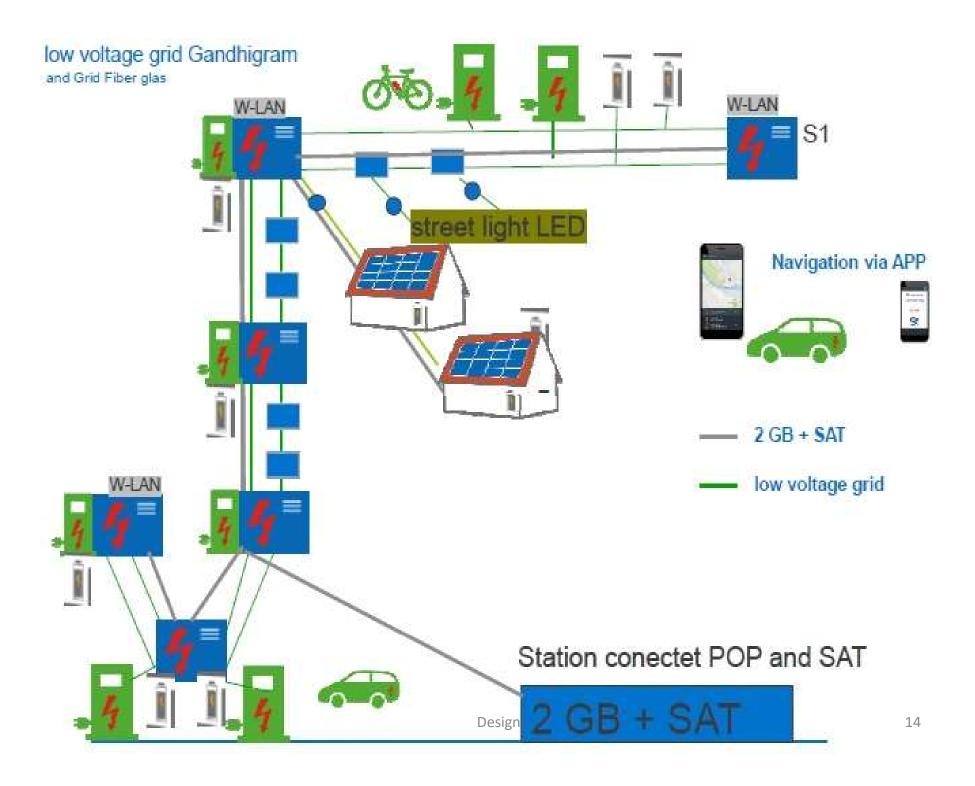
Smappee

- Smappee energy monitor detects all of the essential appliances
- Installed at: Renewable Energy Centre (Laboratory)
- <u>https://pro.smappee.net/login</u>
- More insight into real-time consumption
- Get reports of leaks or danger
- Know exactly what happens
- Save up to 30%



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Water Network

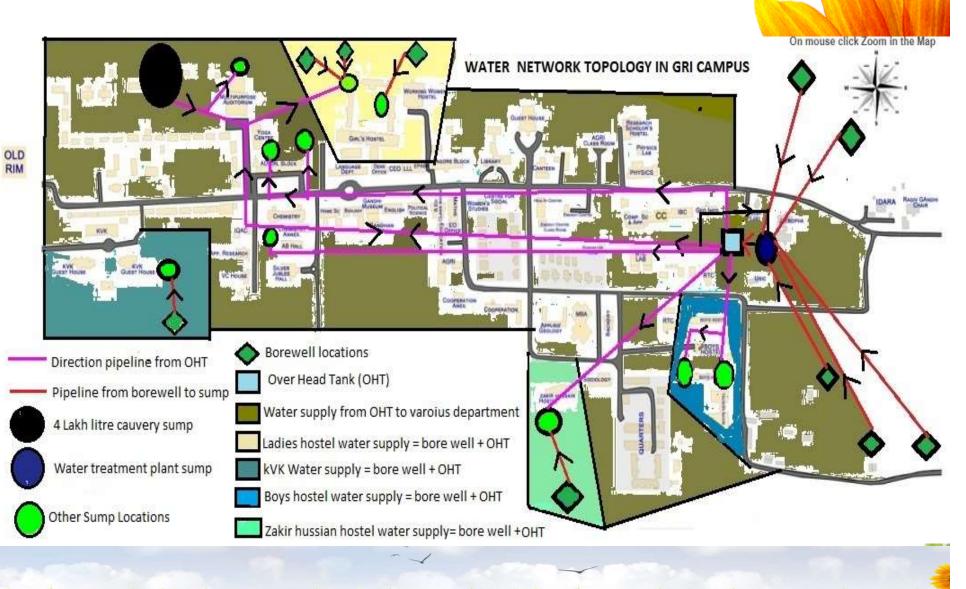
- 1. Sectorisation of water
- 2. Identification of sumps and their capacity
- 3. Water level sensor for OHT tank



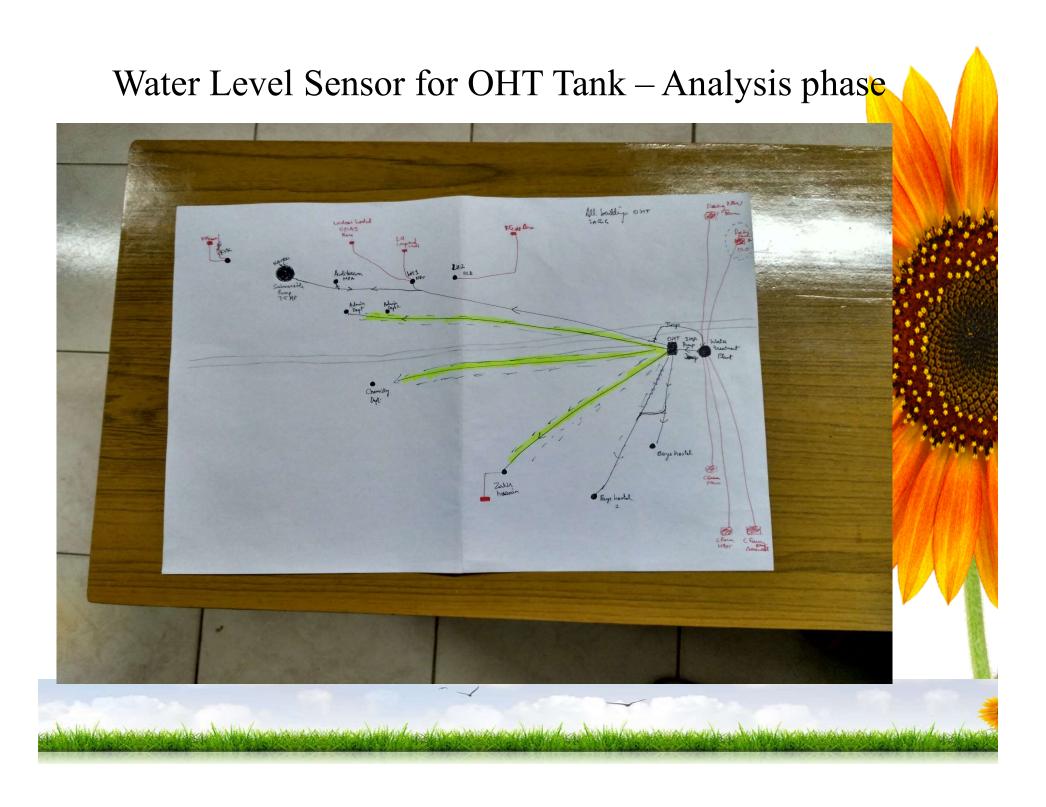


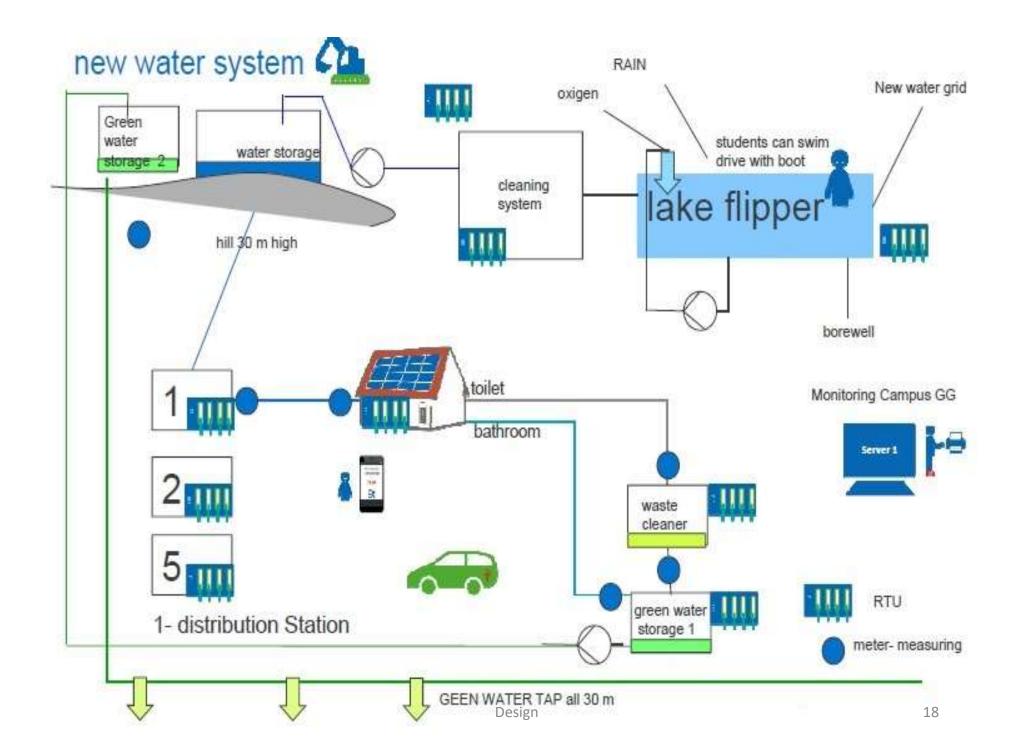
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Sectorisation



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Waste Management

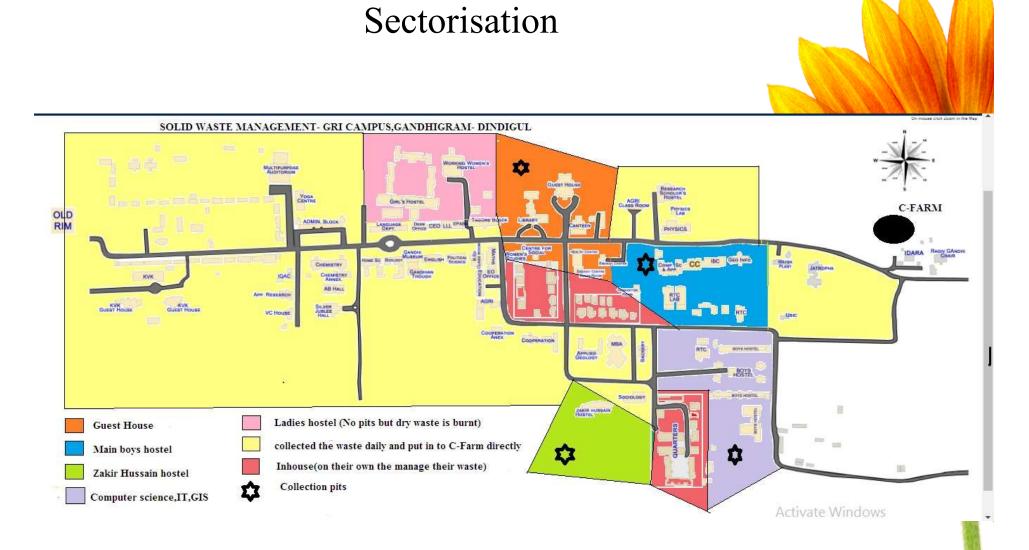
- Sectorisation
- Segregation of waste
- Understand the topology/ pipelines laid (sewage water)

Design

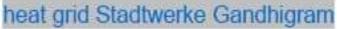
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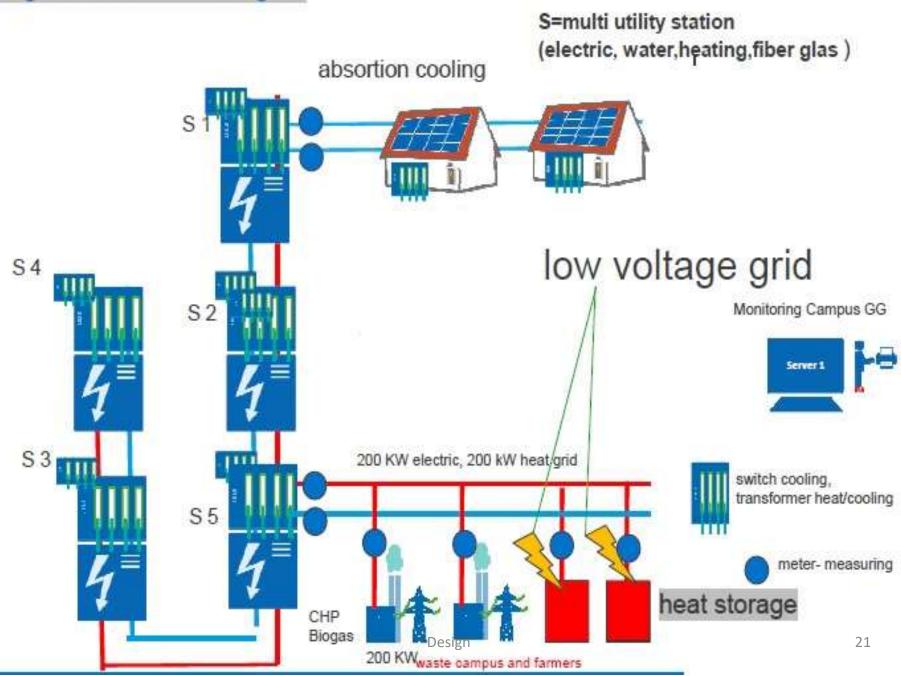
• Possibility to install a recycling plant











Electro-mobility

Objective: To create a pollution free environment

Focus:

- To built nearly 3-4 carports that are completely energized by solar
- Identification of the location for building carports
- Buying of electric vehicles so as to be parked under the carport
- Making use of the existing electric vehicles





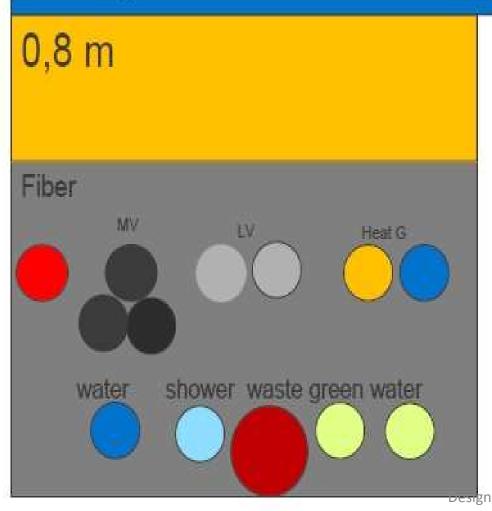
Design

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all sytems are in the ground

underground





How do we achieve together??

- GRI's involvement in implementation to make it sustainable
- iPLON and its network (SMEs in Germany and India)

Design

• A people's movement (Gandhiji's way!!)

Visits to Gandhigram

NAME	DESIGNATION
Victor Thamburaj	CEO, iPLON GmbH
Peter Breuning	Head of Department: Grid Control and Engineering Service, Schwaebisch Hall
Christoph Blaschke	Next Solar Concepts
Abhijit Singh Sachdeva	iPLON India Pvt Ltd
Thomas Karle	Biogas Specialist, Germany
Lea Sophie Karle	Intern, Germany
Sebastian Neven-de Mount	Intern, Germany
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Success is easier to achieve when all are on one side

Thank You!!!

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Workshops





