



Indo German Trigen Project



Improving Energy Efficiency in Commercial Buildings

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Indo-German Energy Program (IGEN)
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)

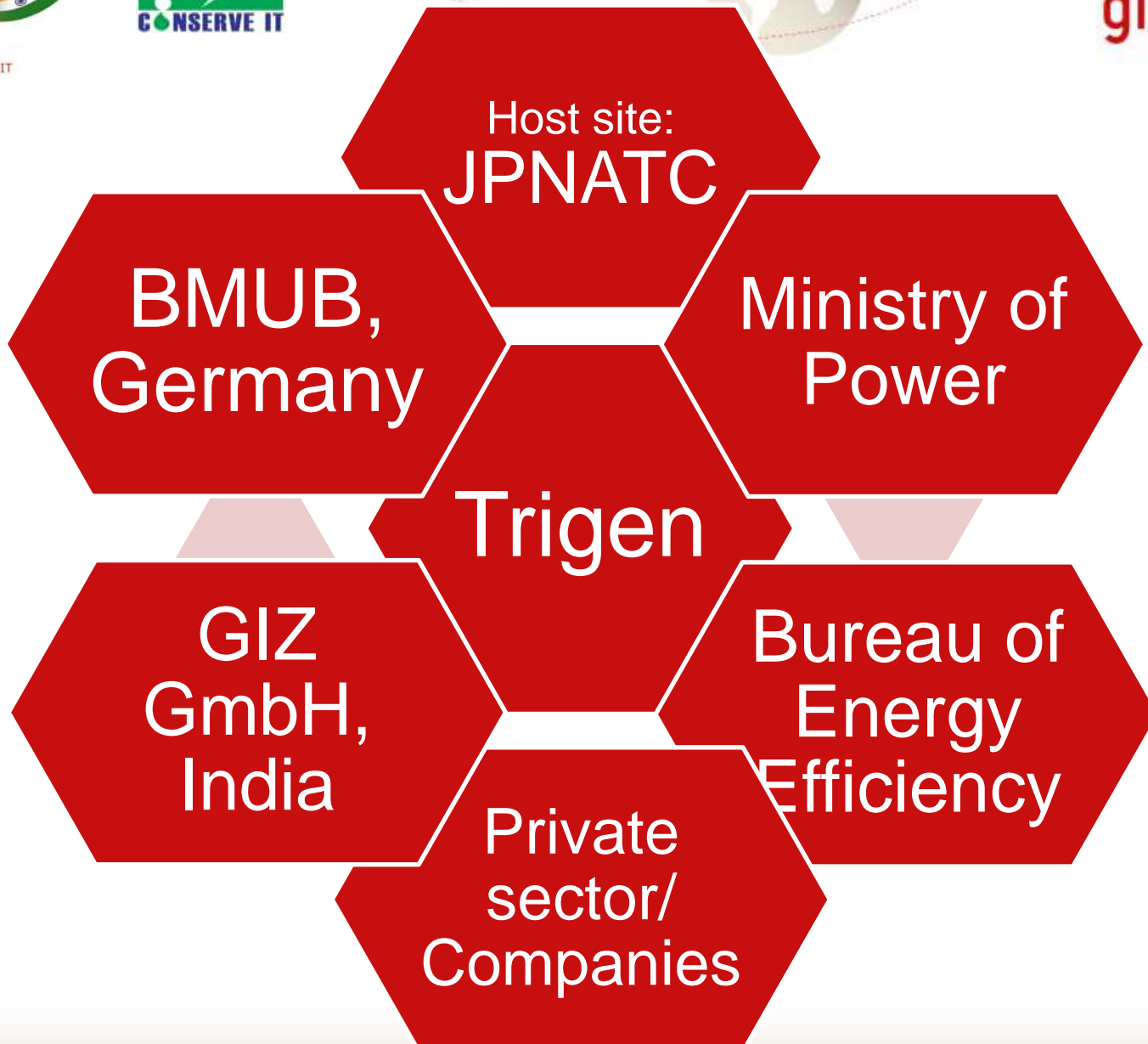


Trigen project overview:

- Funded by BMUB
- Project implementation agencies: BEE & GIZ
- Project stakeholders: BEE, GIZ, JPNATC, DESL, IGL, GPIPL
- Project duration: November 2008 – December 2014
- Commissioning of the demonstration plant: July-October 2012
- Project site: Jai Prakash Narayan Apex Trauma Center (JPNATC, AIIMS)

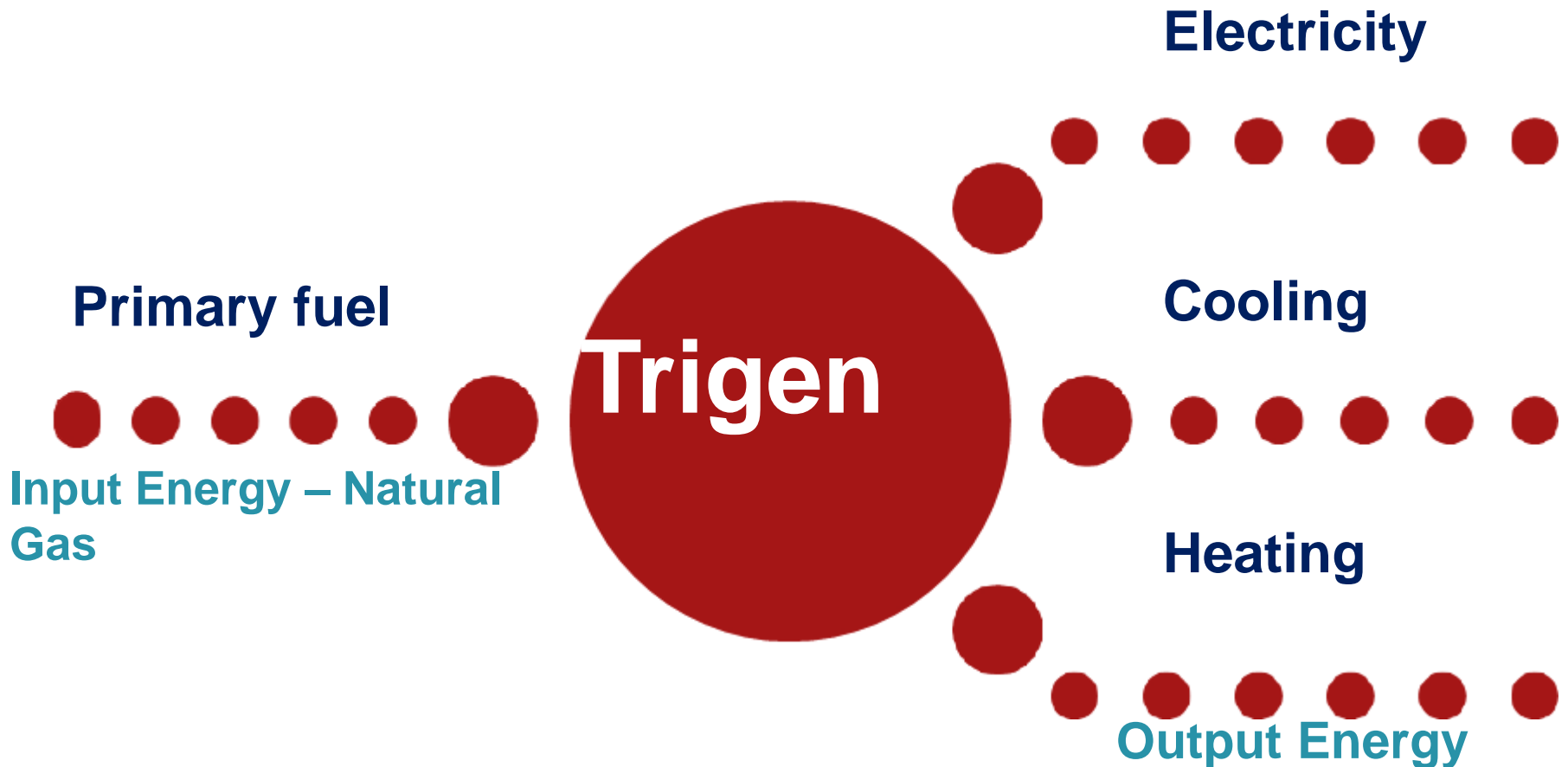


Trigen project stakeholders:





Trigeneration concept





A picture of Trigeneration demonstration site



Project site case: JPNATC

1. Emergency (Trauma) care hospital
2. Four emergency grid supplies in case of power failures
3. Three diesel generators in case of emergencies
4. Total energy demand reaching upto 1.5 MW during peak summers
5. Cooling peak load ~800 TR
6. Heating demand in kitchen, laundry and sterilization



Major activities covered under the project:

1. Market assessment study
2. Trigeneration demonstration plant
3. Performance monitoring system
4. Dissemination of information on Trigeneration through brochures, workshops, seminars, etc.
5. Website www.trigenindia.com
6. Feasibility study at FICCI Federation house
7. Trigeneration map



Savings from the demonstration plant

- Energy savings from the plant: 660000 kWh per annum
- GHG emission reduction: 1700 tCO₂ per annum



Way forward:

- Preparation of trigen guidelines for experts, policy makers, manufacturers, users, etc.
- Policy support for Trigeneration technology
- Resource allocation and incentives for faster technology dissemination
- Schemes for the roll-out of the technology e.g. distribution and sharing of the hot/cold water



EnergieWENDe

Follow up

Trigeneration

Funds

CooperatIOn

Knowledge sharing

Energy Modesty

Learning

Incentive

Experience

Renewable

Thank you

Results

Output Outcome

marketING

Energiewende

concepts

Financin

n
e
s

HCD

Success factor

g

IKI Challenges

Diagnos
tic

Focus

ESCO

TUEWAS

Energy
Policy

Energy
Conservation



www.trigenindia.com

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