

# **Socio-Economic Impact Monitoring of Rural Electrification Projects**

## **A China Case Study**

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# Outline of Presentation

- Introduction – GTZ at a glance
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- Approach and Methods
- Selection of Interviewer
- Baseline – Study
- First Impacts (Economic, Social, Environment)
- Conclusions & Outlook

# Introduction – GTZ at a glance

GTZ is a public benefit corporation whose shares belong to the Federal Republic of Germany and acts on behalf of the BMZ with operations all over the world

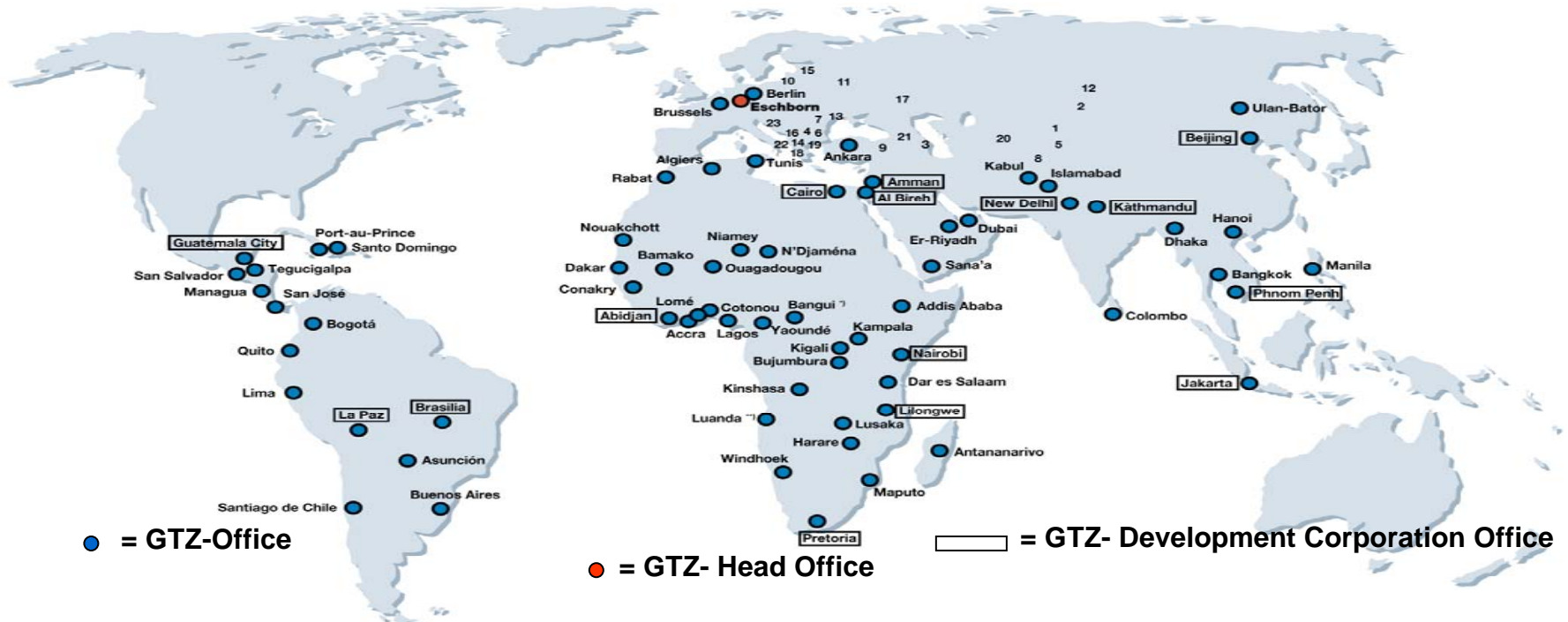
turnover (2004): € 990 m

No. of projects (2004): approx. 2,800

staff (2004): approx. 10,000



Bundesministerium für  
wirtschaftliche Zusammenarbeit  
und Entwicklung



# General Framework of Programme



# TECHNICAL COOPERATION

- **Capacity Building**
  - Training on National and Provincial Level
- **Dissemination Strategies**
  - Awareness Raising Campaigns
- **Improvement of Technical Quality**
  - Technical System Monitoring
- **Impact Monitoring**
  - Set-up an appropriate monitoring system

# Monitoring Objectives

- Poverty Alleviation
- Environmental Sustainability
- Access to Education and Health Services
- Income Generation
- Gender
- Migration
- Institutional

# Approach and Methods

- Modified questionnaires on the bases of ENPOGEN Study (WB)
- Basic Principle - aiming at a depiction of the individual HH as a whole acc. to one family member interviewed – remained unchanged
- Guidelines for interview between head of village and foreign social science expert elaborated

# Selection of Interviewers

- Sound & comprehensive knowledge about the region
- Multilingual capability / Computer literacy
- Educational background
- Preferably women
- Experience with Statistical Social Science Program
- Experience with face-to-face interviews



# Baseline-Study Sept./Oct. 2002

<b>Village</b>	<b>Total no. of households</b>	<b>No. of HH interviewed</b>	<b>% of total HH</b>
Jiuzihai	50	34	68
Dongfeng	38	24	63,1
Nanyao	34	22	64,7
<b>Total</b>	<b>122</b>	<b>80</b>	<b>65,2</b>

# First Economic Impacts

- Possession of TV-Set increased from previously 18,8% to 59,2% of all HH
- 7% of HH bought electrical appliances for productive purposes
- 15% of HH use electricity for productive purposes
- Increase of cash income from 1000-2000 to 2000-2500 RMB

# First Social Impacts

- 100% satisfaction with lightning conditions compared to 13,8% in 2002
- 85% school attendance compared to 71%
- Work-load for women/men decreased to 7-10h/day compared to 11-15h/day before
- Intention to migrate dropped to 3% compared to 15%

# First Environmental Impacts

- Consumption of dry cells dropped from previously 77,5% (from 100) to 25,4%
- Wax candle consumption decreased by 90% from previously 75% (from 100) to 7%

# Conclusions & Outlook

- Short & long-term impact
- Direct / Indirect Impact of Energy
- Health Improvement
- Environmental Sustainability
- Social Changes

# **Thank you for your attention !**

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