International Research Network for Low Carbon Societies

Integrating research into policy-making process

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LCS-RNet Secretariat/IGES
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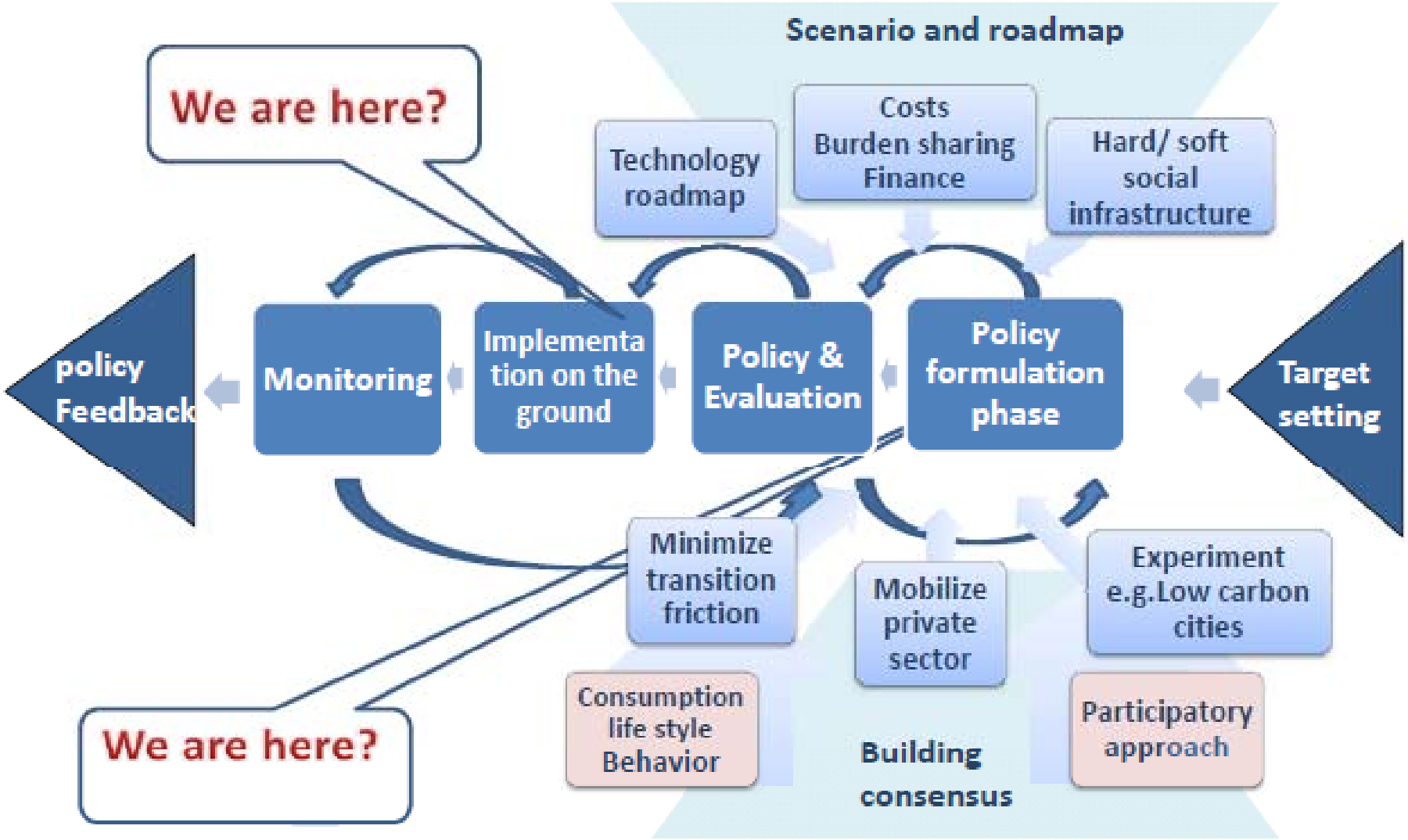
LCS·R Net

Formulation of LCS - To make real progress



Integrating research into policy-making process

2nd Annual Meeting
88 participants from
57 institutions
from 23 countries and EU, and
2 IGOs

1st Annual Meeting
56 participants from
17 countries,
2 IGOs

Researchers Meeting

- Supported its foundation by G8 Environment Ministers Meeting.
- Research network to be a platform for researchers, policy-making communities and stakeholders to realize low-carbon societies.
- 7 countries and 15 research institutes (currently)

Uniqueness

- Strong connection with G8 EMM process
- Targets new research for LCS to fill the knowledge gap
- Involve other research areas

Improving research capacity in Asia

Activities of the LCS-RNet Secretariat / IGES includes;

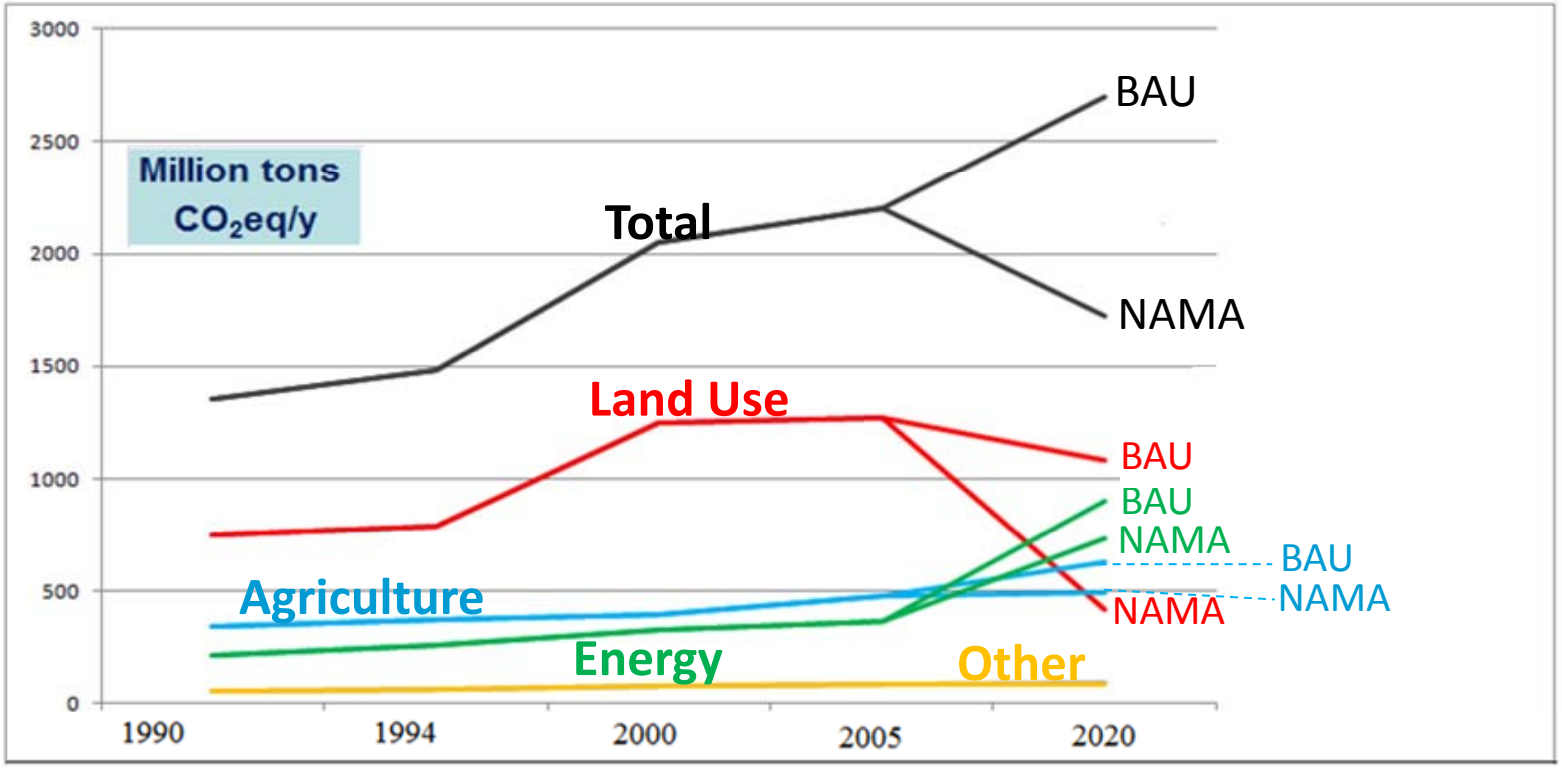
- Dialogues between policy-makers and researchers to identify research needs, and
- Fellowship for LCS researchers – from Asian countries

	Indonesia	Thailand
CA	26% from BAU 2020 or 41%	Not yet submitted
NAMA	41% from BAU with supported NAMA	Positive
Legislation	National Action Plan Regional AP, CC programme with fiscal instruments	11th National Development Plan Crown Standard for cities
Focus area	Forestry and Peatland, Energy and Transportation	Energy, Transportation, Waste, Agriculture, Natural resources management
Other approach	Decentralized administration system	Sufficiency economy
Research	Planning setting up Centre of Excellence for LCS	e.g. JGSEE –Joint Graduate School of Environment and Energy

Examples of LCS related Research

Mitigation potential

NAMA potential in Brazil – Difference between w or w/o NAMA



Land Use - 61.7% from BAU

Agriculture -26.5% from BAU

Energy -23.0% from BAU

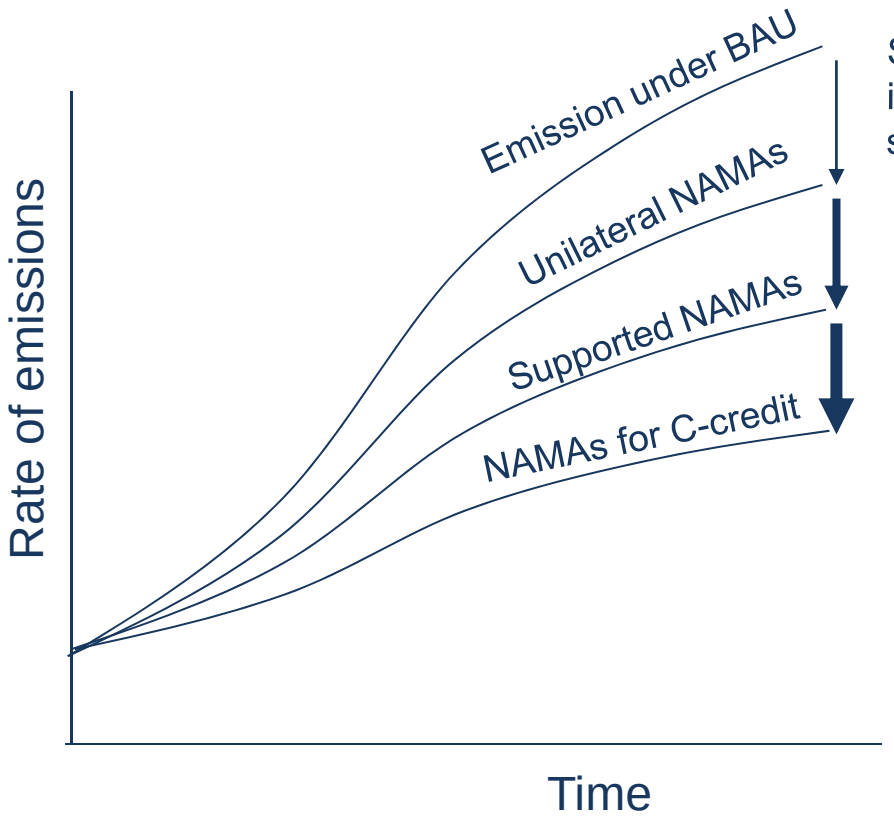
Other -10.9% from BAU

Source: Presentation titled "Towards a Low Carbon Future in Brazil: Voluntary Goals for 2020" by La Rovere, E. L., Dubeux, C., University of Rio de Janeiro, 2nd Annual Meeting of the LCS-RNet Berlin, Germany, September 2010

Examples of LCS related Research

Mitigation potential

Breakdown by types of finance in Indonesia – Mix of domestic and international NAMA, and with credit

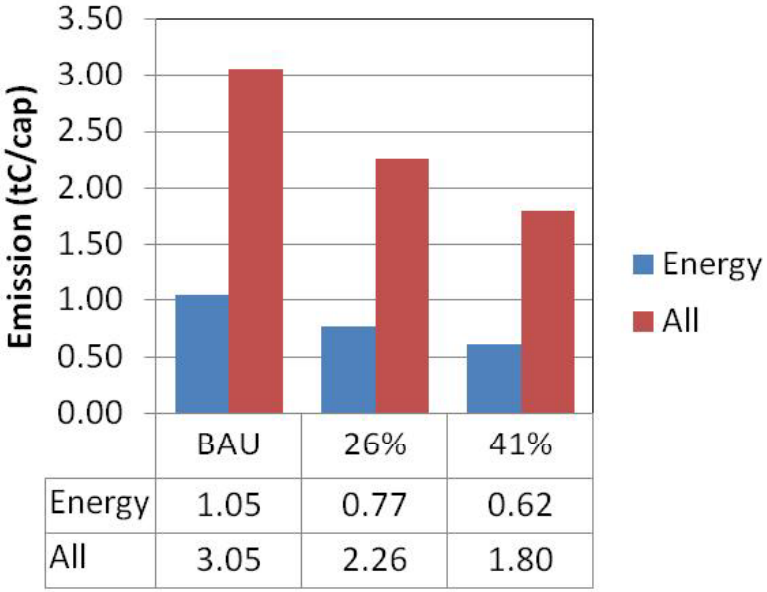


Self financing but some part which is not interest of the country have to be supported

Implementation need private capital or high investment – need TT, CB, investment support

Through market mechanism

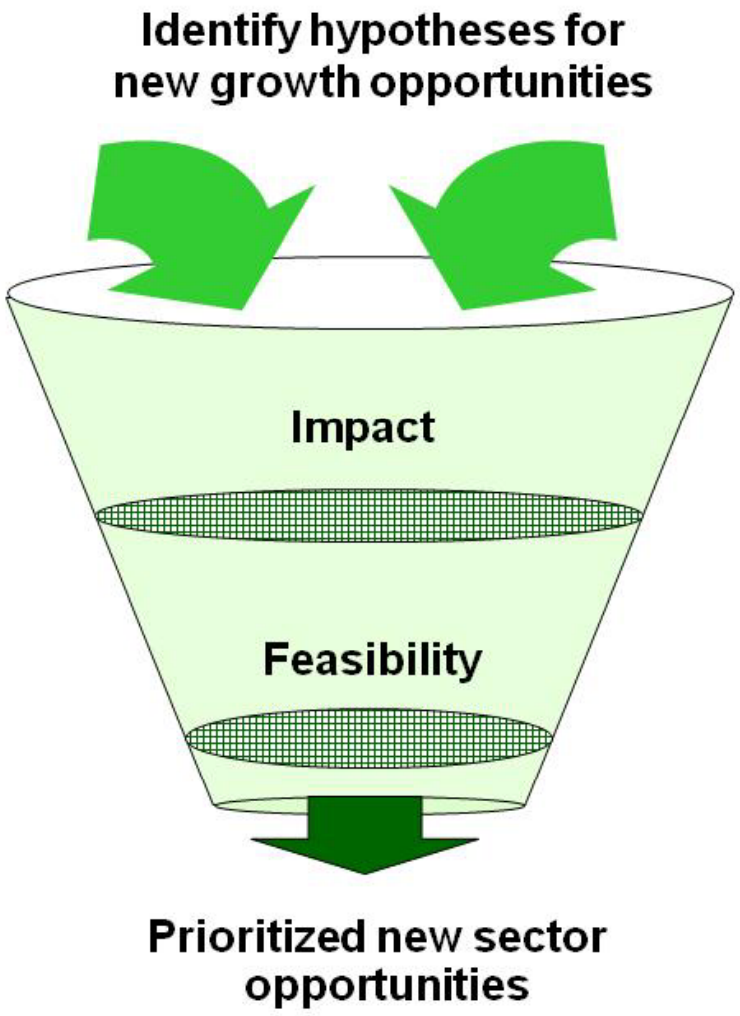
2020
26%
41%



	BAU	26%	41%
Energy	1.05	0.77	0.62
All	3.05	2.26	1.80

Source: Presentation titled "Research Needs for Low Carbon Development/ Green Growth" by Rizaldi Boer, Centre for Climate Risk and Opportunity Management, IPB, and Retno Gumilang Dewi, Centre of Energy Research, ITB, at "Sustainable Low-Carbon Development in Indonesia and Asia: Dialogues between Policymakers and Scientists on Green Growth", Bogor, Indonesia, 16 February 2010

This can be achieved by prioritizing growth opportunities according to their impact and feasibility



Methodology

- Interview local business people, government officials and academics
- Review East Kalimantan economic development plan
- Perform "outside in" analysis of relevant international benchmarks

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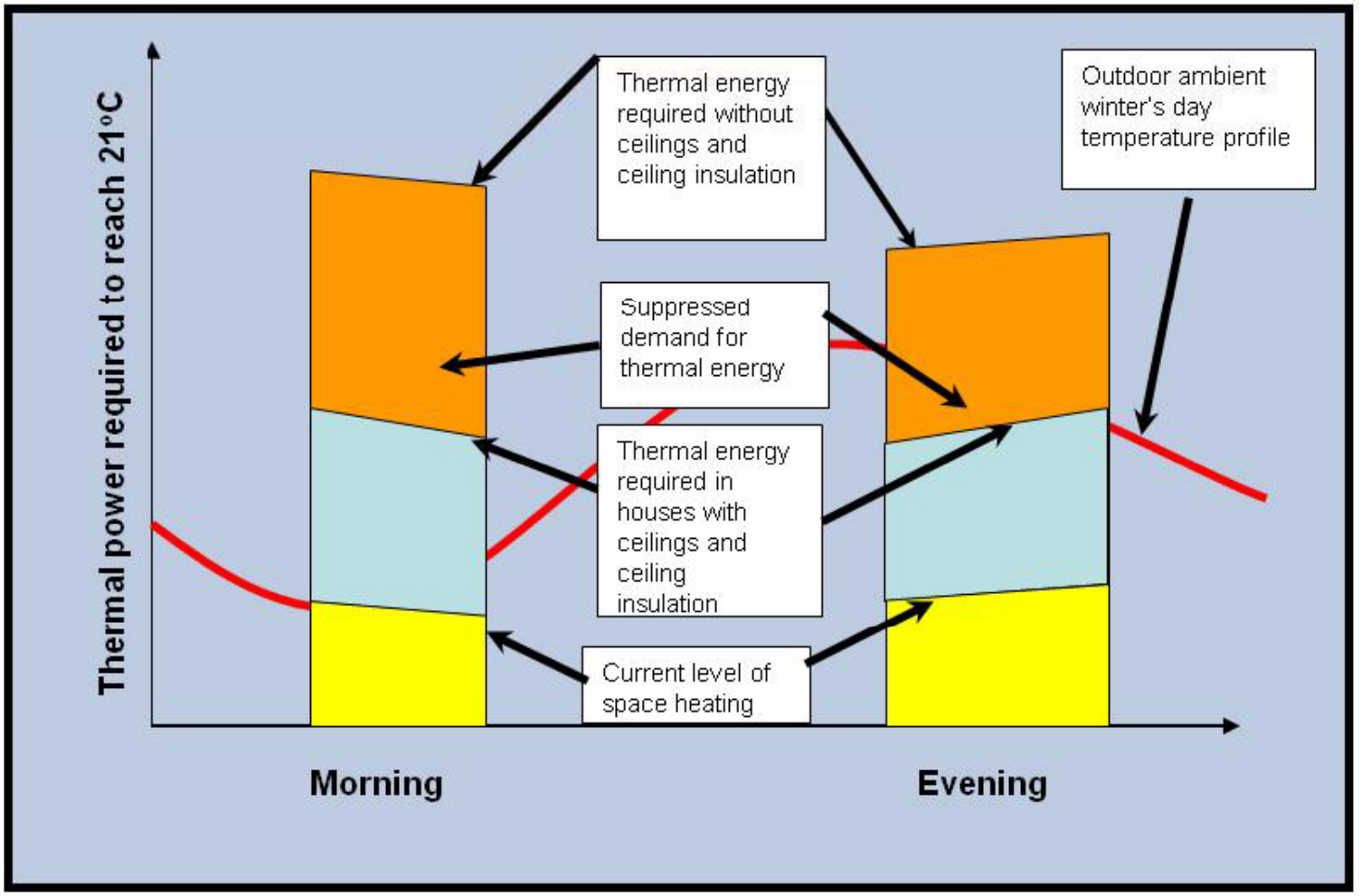
- Assess potential impact on:
  - GDP growth
  - Average incomes
  - Carbon emissions

- Determine the feasibility of East Kalimantan capturing the growth opportunities, based on interviews with sector experts, businesses, academics, and government officials

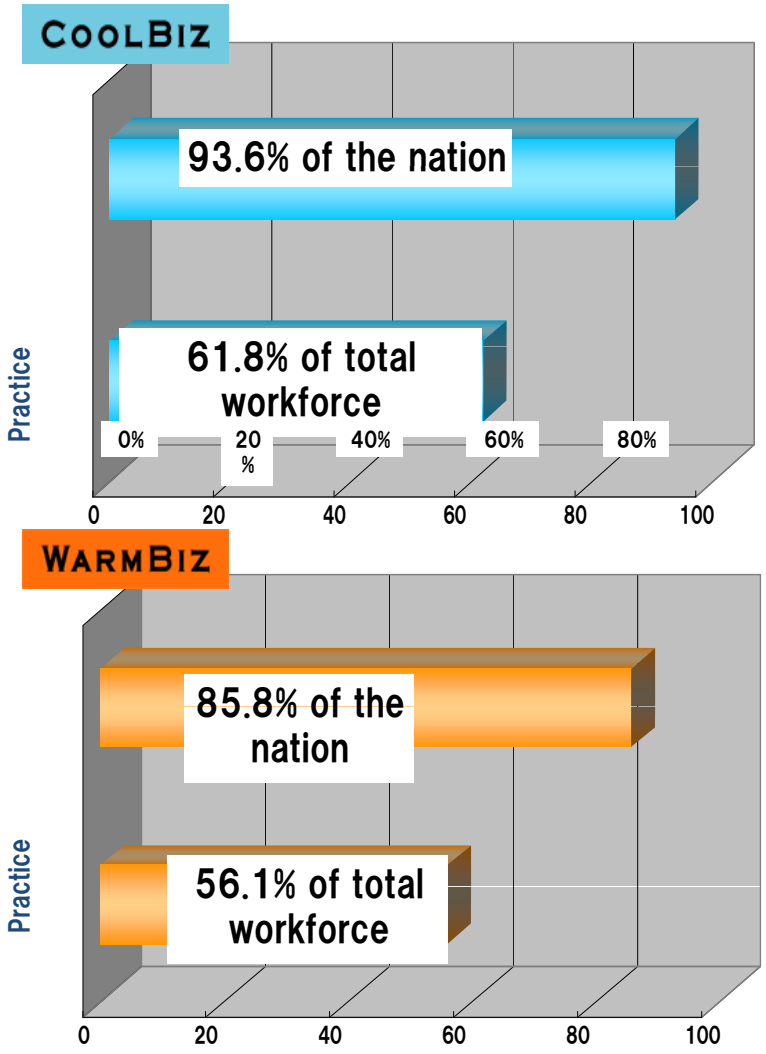
Suppressed Demand: An example of space heating in low income housing



Quantification of policy-led practices

Cool-Biz and Warm-Biz in Japan

「Measure1」Recognition・Practice（2008）



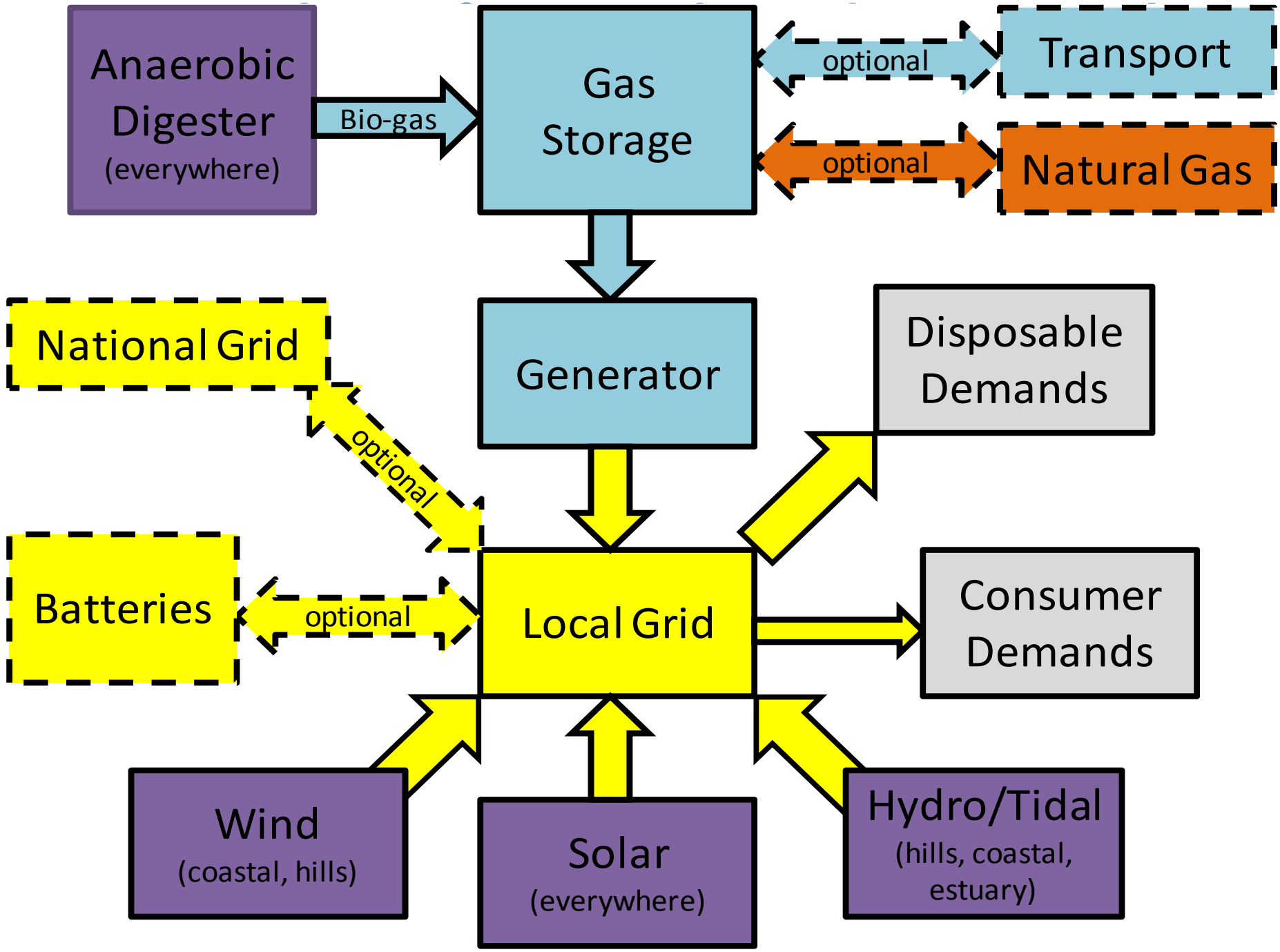
CO_2 reduction at the office resulted in: 2005-2007

2005	2006	2007
0,92 mil ton =about 2 million households CO_2 emissions per month	1.26 mil ton =about2.76 million households CO_2 emissions per month	1.40 mil t = about3 million households CO_2 emissions per month

=total 3.58 million ton

2005	2006
1.06 mil ton =about 2.3 million households CO_2 emissions per month	1.43 mil ton =about 3 million households CO_2 emissions per month

=total 2.49 million ton


Anaerobic Digester
(everywhere)
Bio-gas
Gas Storage
optional
Transport
optional
Natural Gas
National Grid
optional
Generator
Disposable Demands
Batteries
optional
Local Grid
Consumer Demands
Wind
(coastal, hills)
Solar
(everywhere)
Hydro/Tidal
(hills, coastal, estuary)

LCS-RNet

- **A platform to assist policy-makers and researchers to reduce GHG emissions globally, efficiently, and as early as possible**
- **Activities in Asia by LCS-RNet Secretariat**
  - **Information sharing for policy-makers and researchers for their science-based approach**
  - **Provide information of tools and methods such as AIM model**
  - **To provide opportunities for researchers of developing countries to improve their research capacity**

Thank you very much!!