

Applying Rapid Impact Evaluation to Assess Impacts of the GEF-UNIDO Energy Efficiency Program in South East Asia

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Background



- Independent unit in the GEF tasked with higherthan-project level evaluations
- > IEO's mission is to enhance global environmental benefits through excellence in evaluation
- ➤ IEO assesses environmental impacts in five focal areas:













Evaluating Transformative Change at the GEF

- > Assessment Criteria: transformational interventions are Relevant; Deep/Systemic; Large-scale; and Sustainable.
- Findings on GEF interventions that supported completed transformations:
 - Established a <u>Demonstration and Replication mechanism</u>;
 - ii. Supported by the <u>Policy and Economic Environment</u>;
 - iii. Achieved *Financial Sustainability* by mobilizing market forces or by eliciting government budgetary allocations.
- Lessons: level of ambition; effective transformational mechanism; quality of implementation and execution; harnessing market forces; size does not matter.



Why RIE?

- > RIE can inform on transformational change in the environmental sector
- We applied RIE for a case study in a highly complex mixed-methods evaluation on GEF programs
- We needed an alternative impact assessment approach to geospatial impact analysis
- The aim was to obtain estimates of GHG emission reductions attributable to the program





Aim: assist countries to improve EE in targeted industrial sectors in 5 countries, and extend to other countries in SE Asia

Components:

- Support to government for a <u>National Regulatory</u>
 <u>Framework</u> for EE in industries (including ISO 50,001)
- ii. <u>Tools/Training</u> for enterprises on EnMS and SO, and of service providers (equipment, consulting) as well as financial institutions (lending for EE investments)
- *EE Pilots* with national commitments to the number of enterprises adopting EnMS and SO.



How?

- > The full RIE approach was applied
- An iterative design phase (visits in DC and Vienna)
- > One-week missions to two out of five countries
- Estimates of the program contribution to improved energy efficiency in industries from the three expert groups in each country and from a global panel
- > The evaluation report and RIE case study are available on

www.gefieo.org



What did it take?

- > A longer time to set it all up, and to carry it out
- > A larger budget than expected
- An adaptation of the RIE approach to a mission type setting, to maintain the user-seeking nature of RIE. Use of Technical Advisers was different from standard RIE, as was the expert panels, and e-surveys
- Strong and continued support was needed from GEF Secretariat and especially from UNIDO, both in HQ and in the countries



Did it yield what we expected?

- Estimates of the EE results attributable to the intervention were generated, which could be triangulated with other sources in the evaluation
- Cronbach Alpha test confirmed the validity and internal reliability of the results
- > To note, the actual estimates of GHG emission reductions from the two technical advisors involved many iterations



What would we do differently?

- Hiring of RIE Technical Advisors could have been done earlier in the process. Their use was different: they helped with logistics and language
- > A Mission Type setting requires a different RIE process, with the risk of it being less use-seeking
- Sharing the Project Summaries could have been done prior to the missions
- Country Expert Panels composition... maybe we could have sought advice from others beyond the TAs
- Calculation of GHG estimates would have required less iterations, had the estimating methods been worked through in advance.



Concluding remarks

On RIE

- > <u>RIE proved fit for purpose</u>. It provided valid and reliable GHG estimates attributable to the intervention
- Although not its main purpose, RIE proved useful in <u>informing</u> on some criteria of the program potential for transformative results

On the GEF/UNIDO EE Program in SE Asia

- Program design potentially had <u>all the elements</u> for achieving transformational change in EE in SE Asia
- ➤ It was an <u>ambitious</u> and <u>well executed</u> program, and RIE showed the potential for in-country replication
- But the program fell short in describing an <u>effective</u> <u>transformational mechanism</u> to achieve change beyond the 5 countries

