

Research Proposal Template #2: Energy Analysis

RESEARCH PROPOSAL ON ENERGY ANALYSIS

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1. ENERGY ANALYSIS FOR JAPAN AND/OR GLOBALLY

Please discuss your familiarity with and experience in energy analysis for Japan and/or globally.

2. MODEL DEVELOPMENT

Please discuss your approach to model development for energy demand, costing, efficiency, and green house gas emission models. This could be on an individual process basis (i.e. fuel cell vehicle, light based electricity) and/or on a regional or national level with multiple competing energy processes.

3. ENERGY PATHWAYS

Please discuss and compare a few energy pathways (e.g., coal importation, coal combustion electricity production, electricity use in residential, commercial, and transportation sectors). In individual pathways, identify relevant technology needs/gaps and time frames to close them.

4. RENEWABLE ENERGY TECHNOLOGIES

Please discuss issues such as wind-based electricity for water electrolysis for hydrogen production and the use of hydrogen in fuel cell vehicles, the use of biomass to produce biofuels for transportation, etc.

No longer than 5 pages in total.