

Guidelines for Home Energy Assessments in 100 houses in Kerala with the support of EMC Kerala

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**Energy Management Centre –Kerala
Department of Power, Govt. of Kerala**

About Energy Management Centre- Kerala

Energy Management Centre was established in Thiruvananthapuram (Trivandrum), Kerala, India on February 1996 as an autonomous organization under the Department of Power, Government of Kerala. EMC has got a functional framework devoted to comprehensive and multi-disciplinary institutional objectives and orientation encompassing all aspects of energy, with a focus on energy-environment-development interactions. The guiding philosophy and school of thought of the Centre is "achieving sustainable development through enhancing total energy efficiency and application of renewable energy and environment friendly energy systems in all sectors of the economy". Also, EMC is the Designated Government agency to co-ordinate, regulate and enforce the provisions of the Energy Conservation Act 2001.

Home Energy Assessment

The highest electrical energy consuming sector in Kerala state is domestic sector, which is more than 49% of the total electrical energy consumption. Hence the domestic sector is one of the potential areas where we can bring various measures in energy efficiency and conservation and reduce the state's energy consumption and carbon foot print.

The Home Energy Assessment Program is defined as a study of energy uses of various energy consuming equipment and appliances in a house and submission of a technical report with the solutions to bring energy efficiency and energy conservation. This leads to reduction in energy bills and carbon footprint of the consumer.

Urjabhavanam-Web Portal

EMC has launched a web portal named 'Urjabhavanam'. This digital platform aims to act as a platform for enabling home energy assessments. The house owners can register for home energy assessment, the home energy assessors can take up the work, fill the details as part of home energy assessments etc.

The portal link is: <http://urjabhavanam.in>

Home Energy Assessments in 100 houses in Kerala

The Home Energy Assessment Program by the Energy Management Centre (EMC) Kerala is designed to promote energy efficiency in households. The program aims to help homeowners reduce energy usage, cut electricity costs, and lower their carbon footprint by implementing practical and cost-effective energy-saving measures.

As part of the launching of Home Energy assessment program, EMC has decided to conduct Home Energy Assessment in 100 houses in Kerala by giving financial support to home energy assessors. The Home Energy Assessment Program in Kerala, supported by the Energy Management Centre (EMC), offers energy audits for households with financial backing to help improve energy.

Here's a detailed description of the process:

Eligibility Criteria:

- Minimum Connected Load: Houses must have a minimum connected load of 5 kW or greater.
- Air Conditioner Requirement: Houses should have at least one Air Conditioner installed.

Procedure:

1. Identification by Home Energy Assessors: Home energy assessors are tasked with identifying houses that meet the eligibility criteria (connected load of 5 kW and above with at least one installed air conditioner). They will then direct the identified consumers to register for the home energy assessment through the Urjabhavanam Portal, a dedicated online platform for energy-related services in Kerala.
2. Communication with EMC: After identifying homes, the home energy assessor is required to email the list of identified houses to the Energy Management Centre (EMC) for further processing.
3. EMC will scrutinize the application and give approval for home energy assessment over email.
4. Consumer Registration: Once an approval from EMC is received, the consumer must register for the energy assessment on the Urjabhavanam Portal to initiate the process. The consumer has to remit the consumer part payment(10% of the home energy assessment fee) at the time of registration.
5. Once registration is received through Urjabhavanam Portal, EMC will give approval to conduct home energy assessment
6. The home energy assessor shall complete the home energy assessment and submit the report
7. The report will be verified by EMC and shared with consumer for consumer feedback.
8. If no comments are received within the stipulated time, EMC will consider the report as finalized and will release the assessment fee to the home energy assessor.

Plan Packages:

The assessment services are offered under different packages:

Silver Plan – ₹1500/-

Gold Plan – ₹5000/-

Platinum Plan – ₹7500/-

Financial Support Structure:

EMC will offer financial support for energy assessment services in one house each under the Silver Plan, Gold Plan, and Platinum Plan, facilitated by a Home Energy Assessor.

Funding: EMC will provide the home energy assessment fee to the concerned home energy assessor under the 3 plans.

Communications:

For any clarifications, please feel free to reach out via email at [hea.emck@gmail.com] or contact us at [7736964732].

Summary:

The home energy assessment will help consumers understand their energy usage patterns and provide insights on optimizing energy consumption, leading to potential savings on electricity bills and promoting energy-efficient practices in homes.