

**LITERATURE DOCUMENTS**

**Team No:** 12

**Project Title: Solar Power Monitoring using IOT**

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| **S.No** | **Author(s)** | **Method** | **Advantages** | **Disadvantages** |
| 1 | Hugo T.C. Pedro, Edwin Lim, Carlos F.M | A database infrastructure to implement real-time solar | 1. Data Storage  2. Real-Time Processing  3. Historical Analysis | 1. Complexity of Models  2. Cost of Maintenance  3. Integration Challenges |
| 2 | Amit Kumar Rohit, Amit Tomar, Anurag Kumar | monitoring platform for solar photovoltaic module | 1. Performance Monitoring  2. Data Analysis and Reporting  3. Fault Detection | 1. Cost of Implementation  2. Maintenance and Upkeep  3. Reliability of Sensors |
| 3 | Renata I. S. Pereira, Ivonne M. Dupont | Raspberry Pi applied to Real-Time Cloud Monitoring | 1. Flexibility  2.Energy  Efficiency  3. Scalability | 1. Limited Storage  2. Security Considerations  3. Limited Input/Output Pins |

**References:**

[1] Hugo T.C. Pedro, Edwin Lim, Carlos F.M. Coimbra(2018), “A database infrastructure to implement real-time solar and wind power generation intra-hour forecasts”, International Journal of Renewable energy Elsevier, Vol.123,pp.513-525.

[2] Amit Kumar Rohit, Amit Tomar, Anurag Kumar, Saroj Rangnekar(2017), “Virtual lab-based realtime data acquisition, measurement and monitoring platform for solar photovoltaic module", International Journal of Resource-Efficient Technologies,pp.1-6.

[3] Renata I. S. Pereira, Ivonne M. Dupont, Paulo C. M. Carvalho, Sandro C. S. Juca (2017), " IoT Embedded Linux System based on Raspberry Pi applied to Real-Time Cloud Monitoring of a decentralized Photovoltaic plant", International Journal of measurement Elsevier,Vol.2,pp.1-18.

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Signature of Supervisor