


## 7.2.4 Emerging job roles dashboards

# Energy and Sustainability Solutions Architect

 Estimated Time Horizon: Short-term

## Trends Impacting This Role

Technology trends such as Data Analytics & AI, Digital Twin, and 5G, IoT & Smart Buildings.

## Other Considerations

Companies who are keen on establishing sustainability solutions to achieve cost efficiencies can look to this specialised job role.

## Responsibilities of the Role

The Energy and Sustainability Architect will work with clients and client account teams to design, develop, and secure approval for energy and sustainability solutions to achieve desired outcomes i.e. optimised energy spend, lower total cost of ownership, and reduced carbon emissions. The job holder will also be required to use subject matter expertise in energy efficiency, to provide valuable insight and present business opportunities and solutions to colleagues and clients.

## Job Tasks

- ▶ Analyse, design, and develop energy and sustainability solutions and projects
- ▶ Perform energy and sustainability assessments and audits of client portfolios to develop comprehensive solutions and write reports on the evaluation of sustainability performance
- ▶ Provide meaningful insights as a subject matter expert, to bolster existing energy and sustainability solutions
- ▶ Design and develop cost-efficient projects, while ensuring low or reduced energy and carbon usage

## Technical Skills and Competencies

|  |  |   |  |
|--|--|---|--|
| Building Information Modelling Application | Carbon Footprint Management            | Computational Design                    | Construction Technology  |
| Continuous Improvement Management          | Design for Maintainability             | Energy Management and Audit             | Environmental Management System Framework Development and Implementation |
| Environmental Sustainability Management    | Green Building Strategy Implementation | Integrated Digital Delivery Application | Material Studies and Production Processes                                |
| Project Costs                              | Project Feasibility Assessment         | Site Assessment and Analysis            | Solar Photovoltaic Energy Assessment                                     |
| Sustainability Management                  | Technical Drawing                      | Technical Presentation                  | Technology Application   |
| Value Engineering                          |  |   |  |

## Critical Core Skills

Collaboration      Communication      Digital Fluency      Transdisciplinary Thinking

*Note: Skills highlighted are not exhaustive but have been preliminarily identified as potentially most pertinent to the job role and may be adjusted based on individual organisational strategy and needs.*