Adapting Service lifeCycle towards EfficienT Clouds

Cloud Stack to develop Green Software that takes care of Energy Efficiency & Carbon Footprint at software, platform and infrastructure layers.

OBJECTIVES:
- Extend the existing development models for green and efficient software design, supporting sustainability and high quality of service during execution.
- Develop and evaluate a framework with identified energy efficiency parameters and metrics for cloud services.
- Develop methods to measure, analyse and evaluate energy consumption in software development and execution.
- Enable Self-Adaptation of Cloud Services for reducing energy use and thermal footprint.
- Integrate energy and quality efficiency into service construction, deployment and operation leading to an Energy Efficiency Embedded Service Lifecycle.

RESULTS:
- Implementation of a Cloud stack providing energy efficiency at software, platform and infrastructure layer.