

R#SPACE - RTE Digital PACS

Committee B5 - Question 3.05: What are your expected benefits of using digital substation concepts and how to measure if the benefits can be realized?

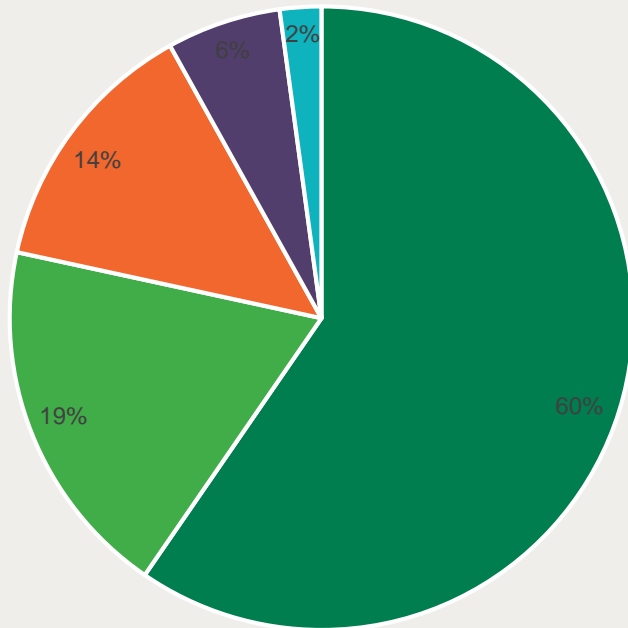
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Question 3.05: What are your expected benefits of using digital substation concepts and how to measure if the benefits can be realized?

- RTE is currently developing a digital PACS based on a modular architecture based on IEC61850 called R#SPACE.
- The economic value provided by the R#SPACE project is established on a comparative analysis with the overall cost of a turnkey solution (i.e. the baseline scenario for the purpose of the analysis).
- The economic study assumes a need for annual renewal of around 4% of the 14,000 bay units of the RTE electric network, the Protection, Automation and Control assets having an overall average lifespan of 30 years.

Question 3.05: What are your expected benefits of using digital substation concepts and how to measure if the benefits can be realized?

Project NPV in 2040



■ Procurement ■ Maintenance ■ Training ■ FAT / SAT ■ Engineering

Group Discussion Meeting

- Main benefits generated overtime by R#SPACE will derive from :
 - savings on **procurement** of equipment,
 - a better efficiency in the **Factory / Site Acceptance Test processes**
- Secondary benefits are expected from:
 - **Training** of maintenance staff
 - **Remote maintenance** capabilities
 - Functional **evolutions**