

 	<b>DESCRIPCIÓN BIBLIOGRÁFICA DEL TRABAJO FIN DE ESTUDIOS IKASKETEN AMAIERAKO LANARI BURUZKO BIBLIOGRAFIAREN DESKRIKAPENA</b>	PC 934 ANX1
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<b>Título del TFG/TFM/ GAL/MALarenizenburua:</b> ANÁLISIS Y ADECUACIÓN DE UNA PLATAFORMA DE SIMULACIÓN PARA SU EJECUCIÓN EN TIEMPO REAL Y ACELERADO	
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<b>Codirector, si existe / Zuzendarikidea, halakorikbadago</b> Sindia Casado Casado	<b>UPNA / NUP</b> <input type="checkbox"/> <b>Otro (Indicar) / Bestebat (Jarri)</b> CENER

<b>Inglés</b> <b>Ingelesa</b>	<b>Abstract(Resumen de 100-250 palabras)/ Abstract(Laburpena 100-250 hitzetan)</b>
	<p>This document presents the final master thesis work in which a simulation platform is analyzed and prepared to be executed in real time and accelerated time (off-line). In order to facilitate the operation, a graphic user interface has been also developed with the aim of operating the platform in an easy and friendly way. The main goal of the virtual platform is not only to be used as a microgrid design tool, allowing to perform sizing of different configurations of the systems that include distributed generation, but also to be a validation tool for energy management strategies. Owing to this point, this tool becomes indispensable in the preliminary steps of the system installation, foreseeing the real performance of the system through the simulation. The final results are computed at different baseline times, letting different simulation applications to be done (hardware-in-the-loop, rapid control prototyping). On one hand, a review about distributed generation and microgrids (as ATENEA microgrid) has been studied, taking into account simulation techniques in real and accelerated time, and the software and hardware used in this work. On the other hand, a description of the development and model adaptation of the systems involved into the platform has been done, including the analysis of the results and the graphical interface. A grid model is introduced in the platform and also a case of study has been carried out. Conclusions, improvement proposals and future work along these lines are presented in order to enhance the platform capabilities.</p>
	<b>Materias o Palabras Clave (máximo 5) / Gaiakedohitzgakoak(gehienez 5)</b>
	Microgrid, integration, simulation platform, real time, off-line simulation.

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<b>Castellano</b> <b>Gaztelania</b>	<b>Abstract(Resumen de 100-250 palabras) / Abstract(Laburpena 100-250 hitzetan)</b>
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<b>Euskera</b> Euskara	<b>Abstract(Resumen de 100-250 palabras) // Abstract(Laburpena 100-250 hitzetan)</b>
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