



UNIVERSITAT POLITÈCNICA DE CATALUNYA  
BARCELONATECH

Escola Superior d'Enginyeries Industrial,  
Aeroespacial i Audiovisual de Terrassa

# Study of electricity generation prediction and control systems in urban environments and energy communities

Document:

Budget

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Degree:

Master in Automatic Systems and Industrial Electronics Engineering

Examination session:

Spring, 2022

MASTER FINAL THESIS



	Concept	Time (h)	Cost (€)
Information research and training	Statistical learning training	45	675
	Library's study and training	35	525
	Summary of the required information	10	150
	<b>Subtotal</b>	<b>90</b>	<b>1350</b>
Model building	Output identification	20	300
	Inputs identification	40	600
	Other model parameters	20	300
	Alternative models' building to compare the results of each	20	300
	<b>Subtotal</b>	<b>175</b>	<b>1500</b>
Model training	Adapt data into the required format	60	900
	Program model fitting	20	300
	<b>Subtotal</b>	<b>80</b>	<b>1200</b>
Model validation	Performing tests and validating the model	60	900
	<b>Subtotal</b>	<b>60</b>	<b>900</b>
Analysis of the results	Performing analysis with statistical indicators	30	450
	Summary of the required information	15	225
	<b>Subtotal</b>	<b>45</b>	<b>675</b>
<b>TOTAL</b>		<b>375</b>	<b>5625</b>