

June – Air - conditioning

High Tech – Case study



**Calendar for
Climate
Change**

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Case Study: Novel Techniques for Saving Energy Consumption in Air Conditioning Systems

Month:	June
Topic:	Air-Conditioning
Case Study Title:	Novel Techniques for saving energy consumption in air conditioning Systems



Name of the Climate or Social Enterprise or Activist Group:	National Research Centre, Egypt
What is their Story?	The engineering department at the national research centre in Egypt have been studying ways to permanently reduce the energy consumption of air conditioning systems by studying the factors that impact energy consumption, such as climate factors and design of both buildings exteriors and interiors. This research is key to



	<p>permanently addressing the problem and will be needed for the fight against climate change. the research also invokes some of the genius ways people cooled their homes before the invention of air-conditioning and shows that we need to reclaim some of these techniques.</p>
<p>Link to the Case Study:</p>	<p>https://www.researchgate.net/publication/335021170_Novel_Techniques_for_Saving_Energy_Consumption_in_Air_Conditioning_Systems/link/5dc60cef299bf1a47b242460/download</p>
<p>Why is this a Good Example to Follow?</p>	<p>The current way that buildings are designed and built is completely dependent on the use of electrically intensive air-conditioning units to cool the buildings when necessary, this approach is extremely unsustainable and wasteful. In times before the invention of air conditioning people across the world had found ways to design their homes in a way that kept them cool and these techniques need to be integrated back into the architectural mainstream in order to reduce the energy consumption of cooling and ultimately meet climate targets, this paper is investigating the possibilities in this area which i believe is a good example to follow.</p>
<p>What Impact has this case study example achieved?</p>	<p>This paper has found more efficient ways of designing and maintaining buildings so that they require less energy to keep cool. From the position of appliances and A/c units within the home to the ventilation systems of larger buildings. This paper claims that as a result of implementing the design and maintenance recommendations it makes, there will be an energy consumption reduction of between 30-39%</p>
<p>References</p>	<p>References</p> <p>TY - BOOK AU - El-Berry, Amal PY - 2019/08/01 SP - T1 - Novel Techniques for Saving Energy Consumption in Air Conditioning Systems DOI - 10.11159/icmie19.139 https://www.researchgate.net/publication/335021170_Novel_Techniques_for_Saving_Energy_Consumption_in_Air_Conditioning_Systems</p>



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