A methodological framework to assist in the renewable energy policies of the Central American countries based on the Analytical Network Process (ANP)¹

Juan Carlos Murillo Castellanos²

Abstract: Renewable energies play an essential role in the Central American Countries, providing responses to face the economic crisis and improving the living conditions of the people, which are being undermined by the effects of the Covid–19. Although the states’ involvement in these processes is reflected through diverse endeavors to enhance renewable energies, their policies need to be readjusted to ensure their effectiveness regarding the current needs. For these reasons, is proposed a methodological framework to assist policymakers, the fundamentals of this tool are based on a Multicriteria Decision Analysis technique, called Analytical Network Process. The innovation of this methodology is that it reveals the best course of action, comparing the countries’ economic, political, social, and environmental elements. The present study evidences its applicability through the cases of Costa Rica, El Salvador, Guatemala, Honduras, and Nicaragua. This novel methodology even addresses their main contextual constraints to guarantee the most realistic diagnoses.

Keywords: Renewable energy, Analytical Network Process, Development.

Fecha de recepción: 25 de marzo de 2021.

Fecha de admisión definitiva: 18 de diciembre de 2021.

¹ Basado en el artículo ganador del tercer premio del Call for Papers 2020: “La Integración Centroamericana hacia el Bicentenario de la Independencia y los 30 años del Sistema de la Integración Centroamericana (SICA)”

² Ph.D. in Local Development and International Cooperation by the Polytechnic University of Valencia, currently working in Honduras as independent consultant. E-mail: Juanmurillo3000@gmail.com
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2016). That is to say, issues daunting for the development of the nations (Schwab, 
2019), as the undermining effects of Covid-19, which are slowing down sustainable 
initiatives (Turk & Kamiya, 2020). In emerging economies, this is the latent reality 
and intrinsically indicates that renewable energies must be addressed imperatively, 
but with a shared and differentiated nuance, as established in emblematic mile-
stones as the Brundtland Report (1987), the Agenda 21 (Calabuig, 2008), and 
the Kyoto Protocol (1998).

Albeit Central America has evident advances, such as the Central American Electricity 
Market Framework Treaty, promoted under the auspices of the Central American 
Bank for Economic Integration (Reinstein et al., 2011), in this type of initiative, the 
political, economic, and social aspects of the countries create certain conditionings 
(Iskin et al., 2012), as well as their main contextual barriers (Schwab, 2019). Despite 
this, they also reveal the historical contrast within a region of lower-middle-income 
countries, with enormous potential, owing to their natural resources that at all the 
lights could improve people’s lives (UNDP, 2019). Evidently, using an appropriate 
management.

For this reason, a diagnosis of the elements that make up the renewable energies is 
almost mandatory for this region, considering that an update can assist and guide 
policy-makers to enhance the current dynamics, creating reforms for their public 
policies. Although several frameworks and tools address these complex topics, 
the diagnosis presented in this research is promising as it systematically embraces 
interactive updates and reveals the most accurate readjustments for each country.

2. Theoretical framework

For the accomplishment of this project was reviewed literature about renewable 
energies, about local and regional policies (Moner-Girona, 2009; Mauerhofer 
et al., 2016), even studies embracing benefits, opportunities, costs, and risks in 
developing nations and for corporations (Norton Rose Fulbright, 2016; Ram et al., 
2018). Possibly, the most elucidating reference was a study carried out by Ibrahim 
Iskin, Tugrul Daim, Gulgun Kayakutlu, and Mehmet Altuntas (2012), comparing 
renewable energy pricing of a developed and a developing country with ANP.

However, the contribution of the proposed methodology is a construction process 
involving the aspects above in the context of Costa Rica, El Salvador, Guatemala, 
Honduras, and Nicaragua. Among the economic elements were contemplated
operational costs to embrace aspects as salaries, supplies, equipment, and maintenance (Sokhansanj et al., 2006; Cannemi et al., 2014). Distribution costs as an indispensable basis to address factors related to timeliness and distance for the execution of projects; the reference is the study of Rudiger Barth, Christoph Weber, and Derk J. Swider (2008), which focuses on distribution costs and renewable energy.

For economic performance, was included return on investment to determine the importance that implies the financial rentability for corporations and states (El Kafazi et al., 2017). Likewise, investment costs concerning the minimum capital to the startup of operations, the leverage to disseminate the affordability within each country (Cannemi et al., 2014). The tax incentive as those described in the research of Paul Ekins (Ekins, 2004), and inflation to ensure both the feasibility and profitability of the projects (Maria, et al., 2017). The introduction of these elements is due to their sensitive influence over the renewable energy markets.

Regarding the political sphere, the regional achievements are possibly the most outstanding for the Central American countries. Nevertheless, their effectiveness differs both in its governance models and in the level of compliance with its internal and external policies (Mauerhofer et al., 2016). For this reason, this study encompasses their international and national regulations and, likewise, their political stability based on the Democracy Index (The Economist Intelligence Unit, 2020). The relevance of these systemic aspects is that they can affect, alleviate, and consolidate megaprojects.

On the other hand, given each country’s structural asymmetry, the social aspects have been disaggregated in social awareness to prevent the collective rejections sharpened historically owing to the neo-extractivist practices (Cannemi et al., 2014; Mauerhofer et al., 2016). Likewise, innovation & technology as the development catalysts that are pumped through the projects (Schwab, 2019). The potential job opportunities, to reveal the importance that the incomes represent to the inhabitants, and the local development, aiming to expose the need to improve the living conditions of the people; the reference is the Human Development Index (HDI), taking into account that provides a panoramic vision of the social realities.

Other essential elements that cannot pass unnoticed in this study are those related to the environmental field, such as carbon dioxide reduction; its relevance lies in making the need to control greenhouse gas emissions visible. Besides this, air pollution reduction, renewable freshwater, and renewable energy share also were included. This last element is focused on diversifying a shared usage of all energies (Iskin et al., 2012). The general premise of these typologies is that they can reduce
fossil fuel consumption, and therefore, are vital to minimize inequality gaps within the communities.

Nevertheless, as narrated in the introductory part, renewable energy projects have constraints and barriers. For this reason, was contemplated fossil fuel consumption, as an aspect rooted in every society. In addition to this aspect, the geography and the infrastructure of the countries as the main contextual issues that can undermine the renewable energy processes (Iskin et al., 2012; Schwab, 2019). Although the heterogeneity of the elements can be complex, the section below explains the process to obtain the diagnosis coherently.

3. Methodology

The methodology addresses the renewable energy aspects based on a Multicriteria Decision Analysis Technique, called Analytical Network Process (ANP). This model was designed by Thomas Saaty (2001). The main attribute is that this model can be used to prioritize qualitative and quantitative data, represented in elements, then are grouped into clusters (also called components) and are established their internal and external dependencies or relations. Thus, the elements and components are modeled as a network, and with this structuration, they are compared.

Regularly, in processes with ANP, the decision-makers are groups of experts or specialists with broad experience in the thematic addressed (Saaty & Vargas, 2006). For this reason, the outcomes are so binding and assertive, given that they are based on different specialized knowledge and judgments. Nonetheless, to comply with the fundamentals of ANP and with this novel approach, a facilitator is recommended to provide accompaniment to those participants or stakeholders that are not acquainted with ANP.

According to Thomas Saaty (2004) of one of two elements over the other in a pairwise comparison process on a third element in the system, with respect to an

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3 He was a distinguished Professor of the University of Pittsburg who wrote more than 35 books and 150 articles about math, planning, and decision making. The main contributions of this author are the Analytic Network Process (ANP) and the Analytic Hierarchy Process (AHP).

4 In this research, the aim is not to obtain generalized results with many participants, is to generate an analysis based on the integration of specialized experiences. For this, the involvement of key actors is needed to play the role of stakeholders.
underlying control criterion. Through its supermatrix, whose entries are themselves matrices of column priorities, the ANP synthesizes the outcome of dependence and feedback within and between clusters of elements. The Analytic Hierarchy Process (AHP, the steps of ANP are the following:

- Identifying the components and elements of the network and their relationships.
- Conducting pairwise comparisons on the elements.
- The resulting relative importance weights (eigenvectors) are placed in matrices within the supermatrix (unweighted matrix).
- Conducting pairwise comparisons on the clusters.
- Weighting the blocks of the unweighted matrix by the corresponding priorities of the clusters so that it can be a stochastic column (weighted matrix).
- Raising the weighted matrix into limiting powers until the weights converge and remain stable (limit matrix).

However, to facilitate the development of these steps, they have been synthesized in four basic phases:

- Model the decision problem as a network.
- Pairwise comparison.
- Priority calculation.
- Data analysis.

3.1. Model the decision problem as a network

During this initial phase, the participants must brainstorm over aspects related to renewable energies. Although multiple elements may arise due to the diverse experiences of the participants, the aim must be the selection of the most binding. The consensus is fundamental for determining their scope, in view that their ideas can be fuzzy about the elements that will be assessed. In the pilot study, the literature review allowed the identification of 21 elements, which were grouped into 5 clusters, as shown in Figure 1.
Even though the clusters may vary according to the number of elements, it must be established that this does not imply that they have greater or lesser importance. Besides structuring the network, the cluster’s function is that they facilitate defining the relations between elements, and these relations, which elements will be an object of comparison. Although can be overwhelming given the diversity of elements and relations, as shown in figure 2. The software: Super Decisions designed for ANP assists in processing the data. Nevertheless, the comparisons fulfillments that determine the priorities depend exclusively on the participants’ knowledge, experience, and judgment.
For the pilot application, in addition to the literature described in the theoretical framework, the reference for the comparisons fulfillments were indicators from the World Bank Open Data; from the Sustainable Development Goals Global Database; from the Organization for Economic Cooperation and Development; from the Global Competitiveness Index and from the International Labor Organization.

FIGURE 2. Element’s relations

Source: own elaboration.
### 3.2. Pairwise comparison

In projects with ANP, these relations or dependencies are represented through an influence matrix, as shown in Table 1, in which 1 indicates their dependence and 0 its independence. These characters mean that those with 0 aren’t related and will.

**TABLE 1: Influence matrix**

<table>
<thead>
<tr>
<th></th>
<th>Countries</th>
<th>Economic</th>
<th>Environmental</th>
<th>Political</th>
<th>Social</th>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Costa Rica</td>
<td>Distribution costs</td>
<td>Inflation</td>
<td>Investment costs</td>
<td>Leverage</td>
<td>Operational costs</td>
</tr>
<tr>
<td></td>
<td>El Salvador</td>
<td>0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td></td>
<td>Guatemala</td>
<td>0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td></td>
<td>Nicaragua</td>
<td>0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td></td>
<td>Honduras</td>
<td>0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

Source: own elaboration.
not be an object of comparison. The relevance of this restriction is that it prevents decision-makers from unnecessary assessments, usually held in mega-projects. Rather than that, it only allows comparisons between those with an explicit binding. The favorable attribute during this phase is the flexibility of ANP, considering that it doesn’t establish a rigid sequence for the comparisons. The participants decide this sequence according to their own convenience.

For example, centered on distribution costs must be compared inflation and investment costs due to their relations. The comparative logic used is to display the level of importance or priority over the element of the column. The characteristic of these comparisons is that they are made only between those of the same cluster (Saaty, 1999) of one of two elements over the other in a pairwise comparison process on a third element in the system, with respect to an underlying control criterion. Through its supermatrix, whose entries are themselves matrices of column priorities, the ANP synthesizes the outcome of dependence and feedback within and between clusters of elements. The Analytic Hierarchy Process (AHP). In these processes, the priorities are determined through a scale of levels (Saaty, 2006), which uses both cardinal (1, 3, 5, 7, 9) and ordinal values (equal, moderate, strong, very strong, extreme), when it uses ordinal values, its representation is very similar to the adjectives of the Likert Scale (Bisquerra & Pérez-Escoda, 2015). A format to exemplify the questions that can be used is the following:

**TABLE 2. Generic question with nominal scale of ANP**

| According to your experience, which element is more important, and to what extent more influential in relation to E.1? |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| E.3  | Extreme  | Strong  | Moderate  | Equal  | Moderate  | Strong  | Extreme  | E.5  |
| E.3  | Extreme  | Strong  | Moderate  | Equal  | Moderate  | Strong  | Extreme  | E.5  |
| E.5  | Extreme  | Strong  | Moderate  | Equal  | Moderate  | Strong  | Extreme  | E.7  |

Source: own elaboration.

The advantage of this format is that it provides homogeneity in the questions and answers. After the fulfillments with this type of format, the priorities are converted into weightings, and once added, they constitute a unit per cluster, as shown in the following vector:
### TABLE 3. Conversion of influences

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E.3.</td>
<td></td>
<td></td>
<td></td>
<td>0.63699</td>
</tr>
<tr>
<td>E.5.</td>
<td>1/3</td>
<td></td>
<td>3</td>
<td>0.25828</td>
</tr>
<tr>
<td>E.7.</td>
<td>1/5</td>
<td>1/3</td>
<td></td>
<td>0.10473</td>
</tr>
</tbody>
</table>

1.00000 | 100.000 |

Source: own elaboration.

### 3.3. Priority calculation

In the pilot study, there were 42 pairwise comparisons, and after completing them, was generated an unweighted matrix. This process was filled out on five occasions according to the context of each country. Then this comparative technique was applied among clusters and, thus, was obtained the weighted matrix. The difference from the unweighted matrix is in the input number in the vectors, considering that the weighted matrix doesn’t collect null vectors. After prioritizing the clusters, the weighted matrix is raised into limiting powers until the weights converge and remain stable. Thus, the final data is revealed using the network as a whole, as shown in Table 4.

### 3.4. Data analysis

In this last phase, after obtaining the prioritization, for the data analysis, the application allows the identification of key elements for each diagnosis. A steady parameter for this process is the aggregation weights that sum more than 75%, considering that this represents 3/4 on each cluster. In this way, the remaining percentages with lower priorities aren’t analyzed in-depth. But this must be carried out independently due to the differentiated necessities of the countries.

For example, based on these parameters in the economic cluster of Nicaragua, the most compelling readjustment would be for inflation (39.094) and investment (47.897), jointly representing (86.991). For the case of its environmental cluster, primarily renewable freshwater (58.477) and renewable energy share (15.129), representing (73.606), in view that any other minimum weight will provide a percentage over 75%. For the most part, this allows several microanalyses, however, an important observation is that there may be unexpected weights as 0 or its approximation, and this is due to their low importance or few connections.
 TABLE 4. Renewable Energy elements prioritized

<table>
<thead>
<tr>
<th>Elements</th>
<th>Costa Rica</th>
<th>El Salvador</th>
<th>Guatemala</th>
<th>Honduras</th>
<th>Nicaragua</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribution costs</td>
<td>Cluster</td>
<td>Limit</td>
<td>Cluster</td>
<td>Limit</td>
<td>Cluster</td>
</tr>
<tr>
<td>Inflation</td>
<td>37.958</td>
<td>10.383</td>
<td>53.237</td>
<td>12.445</td>
<td>41.635</td>
</tr>
<tr>
<td>Investment costs</td>
<td>37.554</td>
<td>10.272</td>
<td>32.313</td>
<td>7.554</td>
<td>55.019</td>
</tr>
<tr>
<td>Leverage</td>
<td>6.286</td>
<td>1.712</td>
<td>1.027</td>
<td>0.240</td>
<td>—</td>
</tr>
<tr>
<td>Operational costs</td>
<td>6.147</td>
<td>1.681</td>
<td>1.970</td>
<td>0.460</td>
<td>2.260</td>
</tr>
<tr>
<td>Return of the Investment</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Tax incentive</td>
<td>12.054</td>
<td>3.297</td>
<td>11.453</td>
<td>2.677</td>
<td>1.086</td>
</tr>
<tr>
<td>Air pollution reduction</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>CO2 emissions reduction</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Renewable Energy share</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Renewable freshwater</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>International law</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>National law</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Political stability</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Innovation &amp; Technology</td>
<td>27.235</td>
<td>6.217</td>
<td>25.701</td>
<td>6.422</td>
<td>29.420</td>
</tr>
<tr>
<td>Job Opportunities</td>
<td>33.016</td>
<td>7.537</td>
<td>21.990</td>
<td>5.495</td>
<td>21.328</td>
</tr>
<tr>
<td>Local Development</td>
<td>30.851</td>
<td>7.043</td>
<td>36.152</td>
<td>9.034</td>
<td>40.643</td>
</tr>
<tr>
<td>Social Awareness</td>
<td>8.898</td>
<td>2.031</td>
<td>16.157</td>
<td>4.037</td>
<td>8.609</td>
</tr>
<tr>
<td>Fossil fuel consumption</td>
<td>62.024</td>
<td>4.468</td>
<td>74.759</td>
<td>4.964</td>
<td>55.093</td>
</tr>
<tr>
<td>Geography</td>
<td>18.746</td>
<td>1.350</td>
<td>19.973</td>
<td>1.326</td>
<td>10.334</td>
</tr>
<tr>
<td>Infrastructure</td>
<td>19.230</td>
<td>1.385</td>
<td>5.268</td>
<td>0.350</td>
<td>34.573</td>
</tr>
</tbody>
</table>

Source: own elaboration.

Besides the microanalyses, ANP also allows an analysis based on the limiting weights of the network. Although in these processes regularly there is only one limit matrix, the fundamentals of ANP establish that when there are several specialists and therefore several limit matrices, can be applied the geometric mean (Saaty, 2008). This aggregation represents a collective result in which their perspectives, experiences, and judgments converge.

4. Results

As previously mentioned, the research has aimed to assist in the readjustments of the renewable energy policies for the Central American countries, and correspondingly, have been displayed several macro–comparisons. However, contemplating their
scope, this section is focused on the limiting results to provide the most illustrative findings.

Regarding the environmental elements, the weights have exposed different necessities, in Costa Rica mainly in the policies of CO2 emissions reduction and renewable energy share; in El Salvador in those of renewable freshwater and renewable energy share; in Guatemala, air pollution reduction and renewable energy share; in Honduras primarily on air pollution reduction and in Nicaraguan on renewable freshwater. The rest must be treated parallelly in this last case since they are within the same range.

In political terms, stability is the most relevant in all the networks. However, when the weights of international and national laws are analyzed sensitively, they evidence some contrasts. For example, in Costa Rica, the policy review requires the most similar treatment, followed by El Salvador, and in the cases of Guatemala and Honduras, particularly national laws. For the Nicaraguan case, international laws, under the premise that the compliance of their multilateral agreements could enhance the political conditions for the fostering of renewable energies.

With the social disaggregation, the Costa Rica results indicate that job opportunities and local development are the main priority; in El Salvador and Guatemala, local development; in Honduras, job opportunities and in Nicaragua, innovation & technology and local development. Regarding the constraints, fossil fuel consumption obtained the greatest weighting in all the networks. In the case of geography and infrastructure, which are those concerning contextual issues, they can be deemed in lower rankings.

5. Conclusions and recommendations

At this point, it has been revealed that the methodology yields promising results for the renewable energy policies of the Central American Countries, primarily due to the elements involved and for their influence on their contexts. However, this has been just a pilot application, for this reason, the conclusions are formulated to expose the benefits of this methodology and its scope for subsequent applications.

First, this methodology and its fundamentals clearly can be used as an efficient tool to assist in readjustments and updates of binding content for renewable energy policies. Nevertheless, as has been mentioned, the decisions depend exclusively
on stakeholders. Given that premise, the participants involved must develop all the phases, from the brainstorming to the pairwise comparisons. Even during the data analysis as feedback, in this manner, there will be a certainty of their judgments. Otherwise, the process will be characterized by skepticism and could lead to a lack of consistency in the results.

Second, about the results, it can be asseverated that they are products of a process with high scientific rigor, so they can be used as critical information to improve their public policies. And accordingly, the phases carried out as the formula for the new public management for the renewable energy policies. However, this methodology should not be limited to one participant; it is encouraged to apply it with multi-disciplinary groups of stakeholders or participants. Undoubtedly, the involvement of more actors will provide more binding results and, therefore, more effective readjustments, particularly in those contexts characterized by their complexity.

Third, conclusively, it must be emphasized that a replica can provide increasingly binding information. During the pilot application, the approach revealed a diagnosis for each country. However, replicating this methodology, the approach may vary and generate other findings. Indeed, it can be designed to analyze a regional policy adjustment. In this case, the individual results could be averaged, evidently, with logic and coherence. The advantage of this approach is that besides providing a panoramic view, it would be enhancing the shared and differentiated nuance longed for this region.

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