

Supplement - I Initial Set of Items from the Literature

Adopted/Adapted items	Sources	Original items
Awareness on RE		
1. I am interested in the energy resources from renewable energy.	(Morgil <i>et al.</i> , 2006)	I am not interested in whether the energy resources are renewable or not.
2. I strongly support the use of renewable energy resources.		I strongly support the use of renewable energy resources.
3. I believe that media has a great responsibility in emphasizing the importance of using renewable energy resources.		I believe that media has a great responsibility in emphasizing the importance of using renewable energy resources.
4. It is important for the use of renewable energy resources to be listed among Environmental Protection activities.		It is important for the use of renewable energy resources to be listed among Environmental Protection activities.
5. Malaysia has quite positive conditions for renewable energy resources because of its position characteristics.		Turkey has quite positive conditions for renewable energy resources because of its position and climate characteristics.
6. Malaysia has quite positive conditions for renewable energy resources because of its climate characteristics.		
7. Renewable energy and its resources are subjects that I have ideas about.		Renewable energy and its resources are subjects that I have no idea about.
8. I would prefer renewable energy because I think it is easy to use.		I would not prefer renewable energy because I think it is not easy to use although it is needed for the environment.
9. I would prefer renewable energy because I think it is needed for the environment.		
10. Renewable energy resources are at the same time clean energy resources.		Renewable energy resources are at the same time clean energy resources.
11. I find using the sun and other unlimited clean energy resources are realistic.		I find using the sun and other unlimited clean energy resources unrealistic.
12. Using renewable energy resources would remove the negative effects of the greenhouse gasses.		Using renewable energy resources would remove the negative effects of the greenhouse gasses.
13. I believe that it is necessary to focus and create awareness on the importance of energy resources and energy saving within educational programs.		I believe that it is necessary to focus and create awareness on the importance of energy resources and energy saving within educational programs.
14. The expression of renewable energy makes me nervous because I am not used to it		The expression of renewable energy makes me nervous because I am not used to it
Knowledge on RE		
15. I think that the weather has become warmer in Malaysia.	(Kardooni, Yusoff, & Kari, 2015)	I think that the weather has become warmer in Malaysia
16. I think that the level of consciousness and knowledge amongst Malaysians regarding renewable energy should be increased.		I think that the level of consciousness and knowledge amongst Malaysians regarding environmental care should be increased.
17. Excessive burning of fossil fuel is the main reason for climate change.		Excessive burning of fossil fuel is the main reason for climate change.
18. The excessive use of natural resources (such as solar, water and wind) is the reason for climate change.		The excessive use of natural resources (such as water and air) is the reason for climate change.
19. Green technologies minimize degradation to the environment.		Green technologies minimize degradation to the environment.
20. I think that I know about solar power and the way it is used to produce electricity.	(Scottish Executive, 2003)	How much do you know about solar power and the way it is used to produce electricity?
21. I think that I know about hydroelectric and the way it is used to produce electricity.		How much do you know about hydroelectric and the way it is used to produce electricity?
22. I think that I know about biomass and the way it is used to produce electricity.		How much do you know about biomass and the way it is used to produce electricity?
23. I think that I know about fossil fuel and the way it is use to produce electricity.		How much do you know about fossil fuel and the way it is used to produce electricity?

24.	I think that I know about natural gas and the way it is use to produce electricity.		How much do you know about natural gas and the way it is used to produce electricity?
Willingness to adopt RE technology			
25.	Solar energy: Using the energy from the sun for heating or electricity production. E.g: Solar Panel.	(Curry, 2004)	Solar energy: Using the energy from the sun for heating or electricity production
26.	Energy efficient (EE) appliances: Producing appliances that use less energy to accomplish the same tasks.		Energy efficient appliances: Producing appliances that use less energy to accomplish the same tasks.
27.	Energy efficient cars: Producing cars that use less energy to drive the same distance. E.g: Hybrid and solar car.		Energy efficient cars: Producing cars that use less energy to drive the same distance.
28.	Carbon sequestration: Using trees to absorb carbon dioxide from the atmosphere.		Carbon sequestration: Using trees to absorb carbon dioxide from the atmosphere.
29.	Bio-energy/biomass: Producing energy from trees or agricultural wastes such as paddy and palm trees residue.		Bio-energy/biomass: Producing energy from trees or agricultural wastes.
30.	Nuclear energy: Producing energy from a nuclear reaction		Nuclear energy: Producing energy from a nuclear reaction
31.	Carbon capture and storage: Capturing carbon dioxide from power plant exhaust and storing in underground reservoirs		Carbon capture and storage: Capturing carbon dioxide from power plant exhaust and storing in underground reservoirs
32.	Iron fertilization of oceans: Adding iron to the ocean to increase its uptake of carbon dioxide from the atmosphere		Iron fertilization of oceans: Adding iron to the ocean to increase its uptake of carbon dioxide from the atmosphere
33.	Wind energy: Producing electricity from the wind, traditionally in a windmill.		Wind energy: Producing electricity from the wind, traditionally in a windmill.
Environmental Concern			
34.	When it comes to purchasing products, I consider how my use of them will affect the environment	Thesis PhD (Salleh, 2015)	When it comes to purchasing products, I consider how my use of them will affect the environment
35.	By choosing environmentally friendly products, I signal to manufacturers the types of products they should be producing.		By choosing environmentally friendly products, I signal to manufacturers the types of products they should be producing.
36.	The production of electricity from renewable sources such as solar energy is an effective way to overcome global climate change.		The production of electricity from renewable sources such as solar energy is an effective way to combat global climate change.
37.	The most effective way to overcome global climate change is reduce energy consumption.		The most effective way to combat global climate change is reduce energy consumption.
38.	Modern science and technology will come up with effective ways to decrease environmental disaster.		Modern science and technology will come up with effective ways to decrease environmental disaster.
39.	We need more government regulations to force people to protect environment.		We need more government regulations to force people to protect environment.
40.	We are consuming energy much more than what we really need		We are consuming much more that what we really need
41.	There is urgent need to take measures to prevent global climate change today.		There is urgent need to take measures to prevent global climate change today.
42.	Global climate change will have a noticeably negative impact on the environment in which my family and I live.		Global climate change will have a noticeably negative impact on the environment in which my family and I live.
43.	If things continue on their current situation, we will soon experience a major environmental disaster.		If things continue on their current course, we will soon experience a major environmental disaster.
Attitude towards RE usage			
44.	Installation of renewable energy product such as solar panel has short payback		Solar water heater has short payback

45. The usage of renewable energy products are attractive		Attractive	
46. Using the renewable energy products such as solar panel means increasing carbon dioxide emissions		Using the system means increasing carbon dioxide emissions	
47. Installation of renewable energy product such as solar panel is not too costly to purchase	Thesis PhD (Salleh, 2015)	Solar water heater is not too costly to purchase	
48. Installation of renewable energy such as solar panel is compatible with modern living style		Solar water heater is compatible with modern living style	
49. Appearance of renewable energy products such as solar panel on a is acceptable		Appearance of solar panel on a roof is acceptable	
50. Installation of renewable energy product such as solar panel is added value to the house		Add value to the house	
51. Renewable energy products are safer than existing energy system		Solar water system are safer than existing energy system	
52. Renewable energy can contribute to conservation of energy		Contribution to conservation of energy	
Willingness to pay			
53. How willing would you be to use more expensive forms of energy to reduce pollution?	(Bang, Ellinger, Hadjimarco u, & Traichal, 2000)	How willing would you be to use more expensive forms of energy to reduce pollution?	
54. How willing would you be to support a local project to generate energy with renewable energy devices such as solar panel, hydroelectric and biomass?		How willing would you be to support a local project to generate energy with wind-powered devices?	
55. How willing would you be to pay more for your electric bill if you knew the cost paid for environmentally safe electricity?		How willing would you be to pay more for your electric bill if you knew the cost paid for environmentally safe electricity?	
56. How willing would you be to support a fuel adjustment clause in your electric bill to subsidize the cost of developing renewable-powered energy?		How willing would you be to support a fuel adjustment clause in your electric bill to subsidize the cost of developing wind-powered energy?	
57. How willing would you be to pay more now in exchange for possibly lower electric rates in the future?		How willing would you be to pay more now in exchange for possibly lower electric rates in the future?	
58. How willing would you be to pay more for renewable-powered energy such as solar panel, hydroelectric and biomass?		How willing would you be to pay more for wind-powered energy?	
59. How willing would you pay 10% more in your monthly electric bill for renewable energy?		(Aini & Goh Mang ling, 2013)	How favour would you pay 10% more in your monthly electric bill for renewable energy?
60. How willing would you pay more for a house that has a renewable energy system already installed, such as solar panel?			How favour would you pay more for a house that has a renewable energy system already installed, such as Solar Photovoltaic System?
61. How willing would you pay more for renewable energy products? For example, solar panel and solar water heating.	How favour would you pay more for renewable energy products? For example, Solar Photovoltaic system.		
62. How willing would you purchase a fuel efficiency vehicle like hybrid car if it cost 15% to 30% more expensive than traditional fuel engine cars?	How favour would you purchase a fuel efficiency vehicle like hybrid car if it cost 15% to 30% more expensive than traditional fuel engine cars?		