

RAK ENERGY INNOVATION COMPETITION

#RAKinnovates

Engage your school and join forces with Ras Al Khaimah Municipality to create a clean energy future!

The [Ras Al Khaimah Energy Efficiency & Renewables Strategy 2040](#) has been established to support competitiveness of Ras Al Khaimah economy by reducing energy and water consumption and increasing the share of renewable energy in the generation mix. Participation of the whole community of Ras Al Khaimah is central to the success of the strategy.

Ras Al Khaimah Municipality is organising a competition for students, approved by the Ministry of Education to encourage energy innovation.

The objective of the competition is to promote innovation locally and engage families of residents by showcasing local youth contributing innovative ideas in the field of sustainability.



THE COMPETITION

- Students will be called to participate in a pre-defined challenge, designed for their school cycle, to be tackled by students individually or as a team.
- Participating students and students' teams are expected to submit their responses to the challenge directly on a dedicated web page, specifically developed for the competition.

HOW CAN YOUR SCHOOL BENEFIT?

- **Establish your school as one of the clean energy ambassadors:** When participating, your school will be listed as a 'Clean Energy Ambassador' on the website of Ras Al Khaimah Municipality and of RAK Energy Summit, an important conference that will take place in Ras Al Khaimah in June 2020.
- **Offer an opportunity to your students to win attractive prizes:** Awards, which will be offered to the winning teams, will include a small monetary prize, the possibility to take up a short-term internship at Ras Al Khaimah Municipality and the opportunity to display their ideas during RAK Energy Summit.
- **Engage your community on a topic that matters for our future:** Your school and wider community, teachers, students and parents, will be able to work together to raise awareness around water and energy conservation.

WHAT IS EXPECTED FROM PARTICIPATING SCHOOLS?

- Appoint a focal point representative among your staff for coordination purposes.
- Encourage students to apply and proactively form teams if necessary.
- Enable the focal point representative to support the participating teams as applicable.
- Arrange for Ras Al Khaimah Municipality representatives to present the competition details to students of participating school cycles.

WHAT IS THE TIMELINE?

- The competition will be open from January to March 2020. The winner will be selected by May 2020, for presentation of awards in the upcoming RAK Energy Summit in June 2020.

WHAT ARE THE CHALLENGES?

Cycle 1:

Work with your family to identify ways for saving electricity and water at home. Illustrate how your family achieved electricity and water savings by creating a photo album, poster, picture and/or website (blog).

Cycle 2 and Secondary:

Propose a creative online tool (e.g., website, blog, app) to raise awareness about the importance of saving electricity and water in your school and /or in your community. Create a demo to illustrate your proposal as a document or a site available online.

RESOURCES:

1. Examples of how your community can save electricity and water:

Households:

- 1) Wash clothes in cold water as this eliminates 90% of a typical washing machines electricity usage. In addition, households can save energy and water by washing only full loads or reducing water levels for smaller loads.
- 2) Unplug common household items (i.e. computers, coffee machines) as they operate in a standby mode that uses electricity even when they're not in use.
- 3) Buy appliances with a good energy rating and high efficiency ratings (e.g. light bulbs, fridge, washing machine, dishwasher, AC, water heaters etc.)
- 4) Air conditioning- start using it earlier if expecting a hotter day, include programmable timer and thermostat controls, setting the air-condition at the highest temperature that is still cool.
- 5) Install ceiling fans instead of air conditioning where possible.
- 6) Take shorter showers and install water-saving showerheads, shower timers or low-flow faucet aerators or swivelling aerator in the kitchen.
- 7) Turn off dishwashers drying cycle and allow dishes to air dry.
- 8) Replace incandescent light bulbs with compact fluorescent bulbs or LED lights.
- 9) Incentivise household to save electricity and water by using the money saved for specific family events, e.g. holiday.
- 10) Create fun ways to monitor energy use in the family, to keep everyone engaged.



Children Specifically:

- 1) Turn off the water after rinsing toothbrush.
- 2) Turn off the lights when leaving a room.
- 3) Take a shower instead of a bath.
- 4) Turn off the TV, computer and other electronics when not in use.
- 5) Ride a bike when possible.
- 6) Play outside more often to limit video game use (cut down on screen time).
- 7) Close doors.
- 8) Keep curtains closed on hot days.

2. Free tools for building websites/apps:

Apps:

- <https://www.zoho.com/creator/>
- <https://www.build.me/>
- <https://www.swappsforkids.com/>

Website:

- <https://www.wix.com/>
- <https://www.wordpress.com/>
- <https://www.weebly.com/>
- <http://www.blogspot.com/>



Any app/website/blog built on other platforms will also be accepted.

Contact person:

- Ms. Noora Albeqaiishi (noora.moosa@mun.rak.ae, 056 5065474) is coordinating this initiative within Ras Al Khaimah Municipality.