NEWSPAPER CLIPPING



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Title Forecasting The Energy Industry

Publication Majalah Energy Malaysia

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ENERGY

he profession of economist is commonly heard of. But what about energy economist? One may ask what are energy economists and what do they do? In this section, **Energy** Malaysia takes a closer look at the roles and functions of an energy economist, the unsung hero of the energy industry. Wan Zaini Zakaria, Universiti Tenaga Nasional's (UNITEN) own energy economist gives insights on what it takes to be one.

Energy economist falls under the broader career category of economists. An energy economist's job scope includes conducting economic analysis related to energy demand and supply, energy market analysis, energy price and energy policy analysis. He or she also

carries out analysis on environmental protection and use of the natural environment such as water, air, land and renewable energy resources.

To be an energy economist, one must possess a Bachelor's Degree of Economics (Energy) (Hons.). An interested candidate can pursue their degree from a Founcation level in the Arts or Science steem or own a Diploma level in oither Business Studies or Engineering. He or she must be equipped with critical thinking, good analytical skills and an understanding of the energy markets.

FORECASTING THE ENERGY INDUSTRY

Role and Function

Role and Function

According to Wan Zaini, there are three principle roles of an energy economist. First, energy economist exists as an analysi in the area of energy-economy-environment (38) studes. The person examines on lopical issues in the area of sustainable energy development, climate change and nuclear power. Not only that, are energy economist also acts as a team member by working side by side on studies and analyses projects like energy reports.

As an example, energy economists at the Institute of Energy Policy & Research (EPRR), UNITEN in collaboration with several local and international energy agencies have conducted studies on Energy Efficiency Implementation in Malaysian Impacts of 2013 MEPS Appliances Regulation and Establishment of Standard Operating Proceedures (SOP) for Energy Data Collection and Dissemination.

Additionally, an energy economist functions as an advisor by providing

information to energy agencies whist also working tegether with various energy agencies like Tengan Nasional Berhad (TNB), Energy Commission and Minry of Energy, Green Technology and Water (Kell THA). He or ahe advises these agencies to ensure that they can work effectively towards meeting their national energy development goals and objectives.

Local energy economists work closely with TNB, the Energy Commission and



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"Should energy sources become completely renewable, as with solar, wind or geothermal power, energy economists may no longer be needed or may move into another type of role."

– **Wan Zaini Zakaria,** Energy Economist, Universiti Tenaga Nasional's (UNITEN)

KeTTHA on capacity building offorts in energy-economy modelling and technic-economic assessments. The staff at Coffage of Energy Business are Economics (CEE), UNITEN works we'll counterparts from energy planning institutions involved in national energy and electricity planning studies such as studies of various energy report, world energy report and world bank, just to name a few.

The Problem Solvers

she has to determine the availability of supply which is correlated to the nation's economic health. If supply gets harder to totalin, energy costs will gu. This in turn significantly impacts the economy with a ripple effect whereby every other segment of the economy is influenced negatively as well. The nonegy economical nasists in sudying these trends and foretells whecher on on the trends will continue while as o providing solutions.

As there is continuous transition within the energy industry, the need for remewble neargy sources uses. Non-remewble energy sources uses. Non-remewble energy sources then would become soconday one with the would after the role of an energy economist will help foreful the most officient way of using a limited energy supply, in some source, be or the will also control the way if it used so as to protect the animoment as much as possible.

Nonetheless, energy economists today have a very important job to do economically, politically, socially and environmentally. They have the responsibility to forecast, study, analyse and provide viable solutions for an energy problem. It is a need that no doubt will not go away for at least the foreseeable future.

The Bachelor of **Economics** (Energy) (Hons.)

Paving the Future of Energy Industry

s energy resources fluctuate unpredictably in the industry, it is absolutely vital to have energy economists to analyse, foretell and solve problems within the energy A have energy economists to analyse, foretell and solve problems within the energy industry. **Energy Malaysia** delves into the makings of an energy economist with insights from Dr. Nora Yusma Mohamed Yusoff, Head of Department and Senior Lecturer at Universiti Tenaga Nasional (UNITEN).



Recently introduced at UNITEN, the Bachelor of Economics (Energy) (Hons) is a pionering lating rogramme that has gamend the abrollion from students all over the ratio and even on an international scale it is the first university in Malaysia to offer this Bachelor cause to caller to the demanding growth of energy economics in Malaysia.

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Power Practice

Programme Structure

PROGRAMME DURATION

3 years (9 semesters)

AMONG THE COURSES INCLUDED IN THE PROGRAMME ARE:

- Energy Economics
- Energy Management
 - Energy Security
- Renewable Energy and Sustainability
- Energy Regulations and Policies
- Energy and Society
- Economics of International Oil & Gas
- Energy Audit & Reporting
- Green Energy and Environmental
- Low Carbon Economics
- International Energy Trade and Market
- Managerial Economics



JOB PROSPECTS

- Energy Economist
- Energy Auditor
- Environmental Consultant
- Environmental Auditor
- Green Industry Auditor
- Economic Specialist Officer
- Economic Researcher and Consultant
- Business Analyst
- Corporate Executive
- Lecturer

Source: UNITEN

The launch of this tertiary programme is in line with UNITEN's vision and mission which is to achieve its status as an energy university. This 3-year Bachelor's degree programme is designed to expose students to the specific aspects in economics discipline and energy sector. In doing so, it offers specialisation courses including energy economics, energy security, energy regulations and policies and renewable energy and sustainability, just to name a few.

According to Dr. Nora, prior to the establishment of this programme, UNITEN conducted various studies by referencing other countries to establish a benchmark for it. Further, Professor Ken Koyama, the Chair in Energy Economics of Energy Commission at UNITEN is the

member of the consultative council of the curriculum development.

This Bachelor of Economics (Energy) (Hons.) course is specifically structured to equip students with a strong theoretical and practical knowledge in economics and energy. These qualities are prerequisites to students before they can embark on the real world of energy service sectors. Additionally, students can also continue to pursue their studies to obtain the Master's Degree in Energy Management or in other Master's Degree in Business Administration (MBA) programmes.

A graduate of this programme can start their career as an energy economist, economic researcher and consultant or even a lecturer if they wish to dabble in the academia field. For those who wish to focus on the enforcement aspect, they can pursue taking special training courses to hold positions as an energy manager, energy auditor or environmental auditor.

With this newly offered course, it promises top notch graduates specialised in energy economics with a wide array of job prospects awaiting them. These specialised graduates would be a valuable asset in the industry by greatly enhancing the industry knowledge and know-how.



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