

nown as a nation of stem discipline, Germany never ceases to amaze. Apart from quick recovery from two world wars (albeit as instigator), the country recently played a key role in preventing financial crisis in the European Union by trying to bail out debt-laden Greece. As other neighbours like France, Italy or even Britan feel the severe pinch of economic meldown, Germany's economy is relatively robust.

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The real surprise is in the country's energy policy, After the word was dis-tressed by the nuclear accident in Japan last year, Chancellor Angela Merkel pub-licly announced a plan to end nuclear energy consumption in Germany, once famous as one of the major nuclear tech-nology exporters. By 2025, the country's last nuclear reactor will be closed.



Hans-Josef Fell, Green Party member of the German Bundestag, helped draft the Renewable Energy Sources Act (EEG), known as the world's most successful legislation advocating renewable energy business.

Meanwhile, the country — with full support from all political parties — announced a bold goal that by 2050, 100% of energy consumed in the country will come from renewable energy. Such a bold tack seems loffy. sk seems lofty.

More than 15 years ago, the rate of

renewable energy production and con-sumption was less than 10% before climbing up to almost 20% in the past few years.

The rational explanation is that the

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The rational explanation is that the country has invested money in research on renewable energy since the 1980s. Now, academic institutes in Germany have numbers of studies developing the quality of photovoltaic cells and the material of wind turbines with the aim to improve quality and reduce production costs.

As a result, the country now dominates renewable energy technology. The only worthy competitor is China, the source of more affordable photovoltaic cells and wind turbine parts.

But for Hans-Josef Fell— a Green Party member of the German Bundestag, or Germany's success with renewable energy is not only technology.

"It is a successful story in the last 10 years. We have universities and institutes which do research on renewable energy. But not only technology is important. We must look how we can organise the new economy."

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Sources Act (EEG), known as the world's
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As part of this law is a concept called the "Feed-in Tariff", a financial subsidy

law that helps producers of solar energy, biomass and wind energy to create a market.

The draft was floated in 2000, a time when renewable energy was not popular and faced strong opposition from the conventional energy sector. Fell admitted being a Green Party member he was viewed as a protester. "The Green Party is a party of protesters against nuclear, GMO, coal, But every time, we combine protesting with solutions. Only

uclear, GMO, coal. But every time, we combine protesting with solutions. Only protesting does not help?

After being convinced that renewable energy development will boost jobs, save the environment and hedge the country from rising oil and other energy prices, the parliament adopted and enacted the law in February 2000.

The Feed-in Tariff in Germany is unique in the way that it does not place a burden on tax payers or public expenditure. Germany's Feed-in Tariff is a big departure from conventional subsidy. Many countries including Thailand took subsidy for renewable energy and other projects for renewable energy and other projects from tax payers' money or public borrowing. The Feed-in Tariff in Germany is also

The Feed-in Tariff in Germany is also unique for its requiring consumers to pay a levy and setting the target so that the subsidy will drop constantly. Fell said the Feed-in Tariff leads to the reduction of price because the production cost has been lowered, thanks to research and development in this technology. "The law has active measures to introduce renewable into the market and help to boost research. If firms begin to make profit with innovations, they will then invest some of these profits in research as they seek to establish a lead in the competition to supply the best products. For petition to supply the best products. For instance, German companies are now putting twice as much money into photovol-taic research as the public sector is mak-

taic research as me possiing."

The law has been successful for promoting research and development in
renewable energy within the market process, not state subsidy, he said.

By the end of 2010, more than 340,000
jobs were created in the renewable energy
industry, helping strengthen the country's
economy amid the backdrop of world
scommic recession.

economic recession.

Fell said dependence on fossil fuel oil can place the national economy at risk.

Meanwhile, big energy businesses such



unious two declares of research have successfully improved German renewable energy technology in terms of quality with ower production costs. The country now is a eading exporter of photovoltaic cells for solar

as oil exploration in Sudan, Venezuela or Middle East were affected by political crisis, not to mention traditional fossil fuels are a major cause of carbon emissions.

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But convincing the world to embrace only clean and renewable energy is a daunting task. "Even in Germany, alot of companies oppose renewable energy," ou will find these companies working in nuclear and they speak against renewable energy. It is hard struggling." Fell—alos sopkesperson on energy policy for the Alliance '90/The Greens parliamentary group in the German Bundestag—travels to many countries to promote his Feed-in Tariff idea and zero-carbon emission concept.
He said one of the biggest obstacles he has found is the lack of correct and balanced information.

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"The big companies that are earning money from selling high-carbon emission energy avoid telling the truth," he said.

One example is the myth of nuclear



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Countries in Southeast Asia — such as
Myanmar, Vietnam and Thailand — have
planned to have nuclear energy plants.
Fell believes these nuclear projects will
never be built in these countries.
"The first point is all these nations
have no chance to finance. Look at the
EU, the last nuclear power plant which
was located in Finland is facing financial
disaster.

"But my point is how to highlight to

politicians politicians that nuclear will be a financial disaster. We must help throwing in new





THAILAND'S TAKE ON THE ISSUE

hailand needs a shot in the arm — similar to the German Renewable Energy Sources Act — if it wants to keep up with a global trend that moves to cleaner and more sustainable

renewable energy, according to Suphakit Nuntavora-karn, researcher at the Healthy Public Policy Foun-

state."
"Look at Germany, the country indeed does not have resources. It has a low sunlight rate. There is wind capacity only inland. There are not many plants for generating bio energy. On the contrary, Thailand has almost everything, much and plenty resources."

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