



Vietnam Initiative
for Energy Transition

VIET: why, who, what? Activities overview for year one

Minh Ha-Duong
VIET Launching Event
Hanoi 19 Sep 2019



Our common
GOAL

VIETNAM
in the
FRONTLINE
to
PROTECT THE CLIMATE



Climate Vulnerable Forum, [Marrakech Vision](#) (2016)

We strive to meet 100% domestic renewable energy production as rapidly as possible, while working to end energy poverty and protect water and food security, taking into consideration national circumstances.

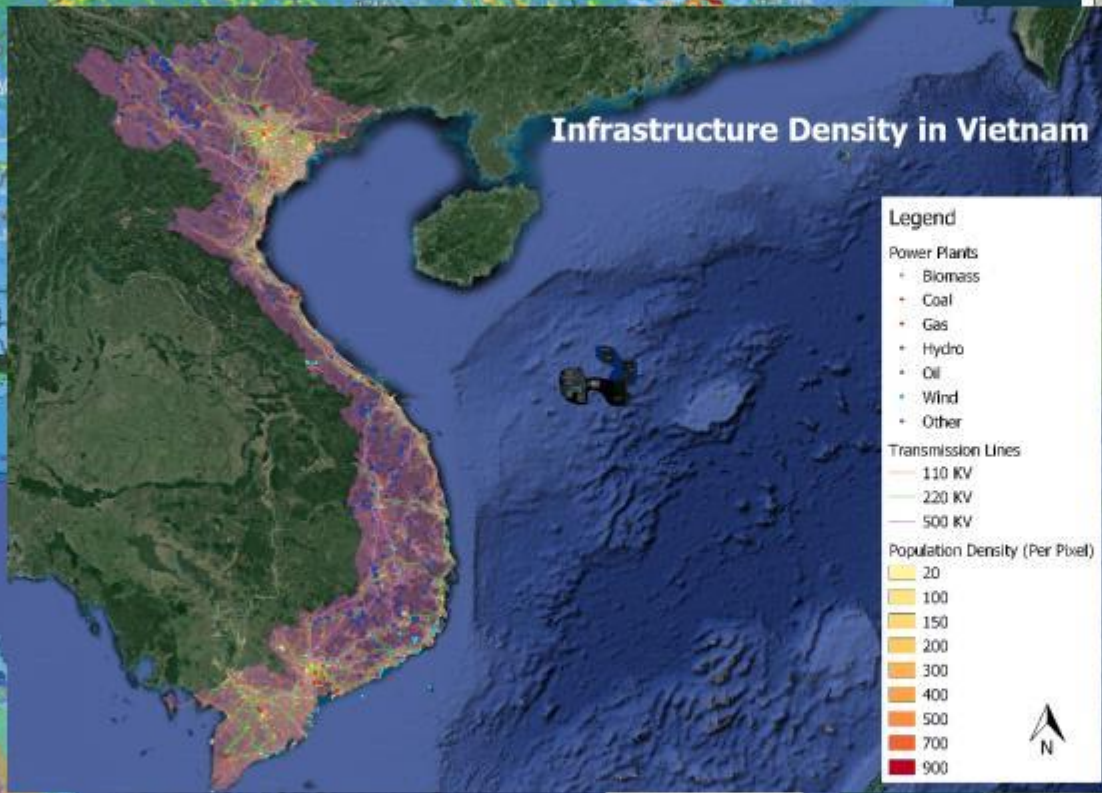
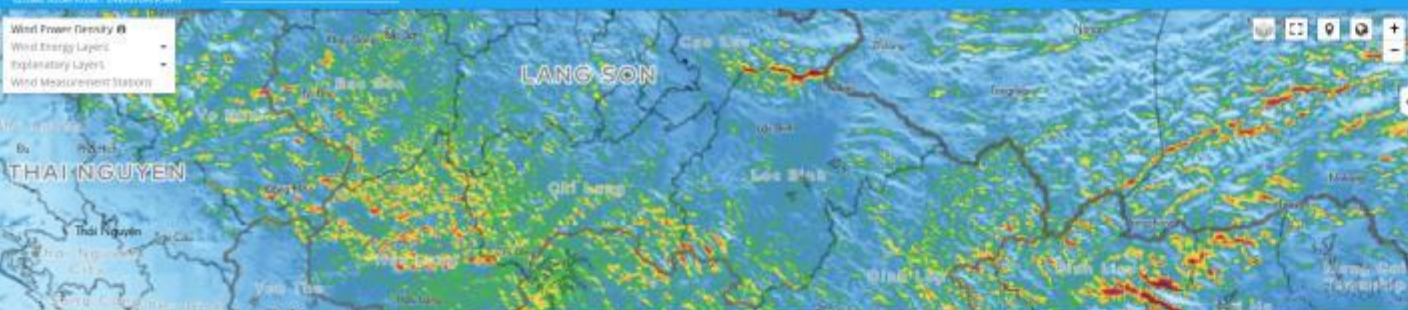
***We commit to
a 8% GHG reduction by 2030
(compared to 320% baseline increase,
not including industrial processes, [INDC](#))***

Minister Tran Hong Ha, MONRE



We see that

- World impressed at Vietnam renewable energy boom
- Germans pay electricity five times higher than VN
- Solar power curtailment rates in Xinjiang, China went from 39% to 10.6% in two years
- Power Development Planning is hard



LNG IMPORT PROJECTS



- FSRU LNG Terminal**
- Capacity: 0.2-0.5 MMTA
- Schedule: 2026 - 2030
- Cat Hai – Hai Phong LNG Terminal**
- Capacity: 1-3 MMTA
- Schedule: 2030 - 2035
- Son My – Binh Thuan LNG Terminal**
- Capacity: 6 MMTA
- Schedule: 2022-2025
- My Giang – Khanh Hoa LNG Terminal**
- Capacity: 3 MMTA
- Schedule: 2030 - 2035
- South East LNG Terminal**
- Capacity: 4-6 MMTA
- Schedule: 2022 - 2025
- Thi Vai – Vung Tau LNG Terminal**
- Capacity: 1-3 MMTA
- Schedule: 2020 - 2022



VIET

**VIETNAM
INITIATIVE FOR
ENERGY
TRANSITION**

An independent think tank to provide

1. Research
2. Expertise
3. Consultancy
4. Training



Vietnam Initiative for Energy Transition

is an independent think tank, acting as a bridge between research and policy, with a mission to accelerate the transition of Vietnamese energy system in a sustainable and reliable manner.

VIET's institutional independence is rooted in the individual independence of its scholars. As a **Social Enterprise**, any profit created from our activities will be used to reinvest in research & education.

01 Research

Our research topics cover national energy policy, climate protection, economics, development, and governance.

03 Consultancy

We provide consultancy, analysis and prediction related to energy and climate protection.

02 Expertise

VIET brings together leading experts in government and academia who provide quality research, policy recommendations and analysis.

04 Training

We receive interns and PhD students on energy and climate protection subjects.



MSc. Ngo To Nhien
Senior associate, Director

Dr. Ha-Duong Minh
Executive chairman, research

Dr. Nguyen Trinh Hoang Anh
Senior associate



MSc. Truong An Ha
Analyst

Dr. Nguyen Hoai Son
Analyst

MSc. Tran Hoang Anh
Analyst



MSc. Trung Quan Tran
Communication officer

Ms. Nguyen Hai Yen
Financial officer

Mr. Tong Minh Quan
Data intern



VIET

1 year

Achievements

Research

- Truong, Patrizio, Leduc, Kraxner, and Ha-Duong (Apr. 1, 2019). *Reducing emissions of the fast growing Vietnamese coal sector: the chances offered by biomass co-firing*.
Journal of Cleaner Production 215, pp. 1301–1311 ([pdf](#)).
- Hoai-Son Nguyen (2019) *Exploring the determinants of household electricity demand in Vietnam in the period 2012 – 16*.
PhD thesis.
- Truong (2019) *Sustainability indicators for biomass energy in Vietnam*.
PhD thesis.

Vietnam Energy System Modelling

All versions

Access Right

 Open (12)

File Type

 Zip (8) Pdf (3) Ods (1) Xlsx (1)

Keywords

 Vietnam (3) Energy (2) Carbon (1) Chuyển (1) Coal (1) Costs (1) Dịch (1) Efficiency (1)

Found 12 results.

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Most viewed

asc

View

May 16, 2019 (v2) Dataset Open Access

Viet Nam Technology Catalogue - Technology data input for power system modelling in Viet Nam

EREA; Institute of Energy; Ea Energy Analyses; Danish Energy Agency; Danish Embassy in Hanoi;

Today, innovations and technology improvements within renewable energy are taking place at a very rapid pace. Long-term energy planning is very dependent on cost and performance of future energy producing technologies. This technology catalogue provides estimates of costs and performance for a

Uploaded on May 16, 2019

1 more version(s) exist for this record

January 10, 2018 (v3) Dataset Open Access

View

Gross Regional Domestic Product (GRDP) data of 63 provinces in Vietnam from 2010 to 2016

General Statistic Office of Vietnam;

This directory contains: The Gross Regional Domestic Product (GRDP) data of 63 provinces in Vietnam annually from 2010 to 2016 by 4 economic sectors at 2010 price and at Current price. Data is collected from General Statistic Office Library, 52 Nguyen Chi Thanh, Hanoi. Data collectors:

Uploaded on May 31, 2019

2 more version(s) exist for this record

February 13, 2019 (v1) Dataset Open Access

View

Transmission network and Substations map of Vietnam (2016)

Clara Ivanescu;

Clara Ivanescu. (2016). Vietnam Transmission network and Substations map. Available from Energydata.info Website: <https://energydata.info/dataset/vietnam-transmission-network-2016> #VIETSE

Open access to
model dataset
and results.

Online access on [Zenodo.org](https://zenodo.org)

Expertise and policy briefs

- Ha-Duong and Ngô Tố Nhiên (June 4, 2019). *Policy briefs on RE Law and Auctions in Vietnam*. Tech. rep., p. 27.
- Ha-Duong, Truong (2019) *Seven insights for Vietnam's power sector energy transition*. Position paper.

Communications at

- 11th Vietnam Economist Annual Meeting (VEAM 2019) Da Lat University, 2019-06-17/18.
- 7th International Symposium on Environment and Energy Finance Issues (ISEFI-2019) 2019-05-23/24, Paris.
- ASEAN - China Think tanks network (NACT) 2019-04-16, Hanoi.
- Vietnam Sustainability Forum (VSF) 2019. Invited keynote. 2019-01-18, Ha Noi.
- Solar and Energy Storage World 2018. Keynote opening talk. 2018-11-08, Ho Chi Minh City.

Stewarding key Wikipedia pages

List of power stations in Vietnam

From Wikipedia, the free encyclopedia

The following page lists some of the **power stations in Vietnam**.

Contents [hide]

- Coal
 - Operating
 - Construction
 - Shelved
 - Cancelled
 - Permitted
 - Pre-permit
 - Announced
- Gas Turbines
 - Operating
 - Pre-permit/permited
 - Announced
- Solar power plants
 - Operation
 - Under Construction
 - Groundbreaking
 - Approved
- Wind power plants
 - Operation
 - Under Construction
 - Groundbreaking
 - Approved
- Biomass

Năng lượng tái tạo ở Việt Nam

Bách khoa toàn thư mở Wikipedia

Việt Nam có tiềm năng đặc biệt lớn ở việc khai thác các nguồn **Năng lượng tái tạo** như: Thủy điện, điện gió, điện mặt trời, điện sinh khối. Trong đó, thủy điện được tập trung phát triển gần như tối đa tại Việt Nam. Tính đến cuối năm 2018, thủy điện là nguồn năng lượng chủ lực của nước ta, chiếm tới hơn 40% tổng công suất điện quốc gia.^[1] Loại trừ thủy điện cỡ vừa và lớn, thủy các dạng năng lượng tái tạo khác

(bao gồm thủy điện nhỏ) chiếm phần lớn trong tổng sản lượng điện quốc gia, biến trước sự thay đổi của thời tiết.

Việt Nam đang hành, đóng lưới nhờ vào cơ cấu nguồn năng lượng quy mô không lớn được đầu tư.

Việt Nam có 4460 MW, chiếm hơn 8% tổng công suất điện gió trên Việt Nam.

Việt Nam đang trong giai đoạn xây dựng các nhà máy điện sinh khối, việc sản xuất điện thương mại.

Việt Nam triển vọng cho việc phát triển các nguồn năng lượng tái tạo rác thải đô thị và nông nghiệp.

mục đầu tư tái tạo để có thể

Mục lục [ẩn]

- Thủy điện

Energy in Vietnam

From Wikipedia, the free encyclopedia

Vietnam is a dynamic developing economy, with a relatively high growth rate. The energy sector plays a key role in promoting the country's socio-economic development. Vietnam has a diverse energy fuel resource of various types such as coal, natural gas, petroleum, hydropower and renewable energy sources such as solar energy, biomass energy, wind energy, etc.

Contents [hide]

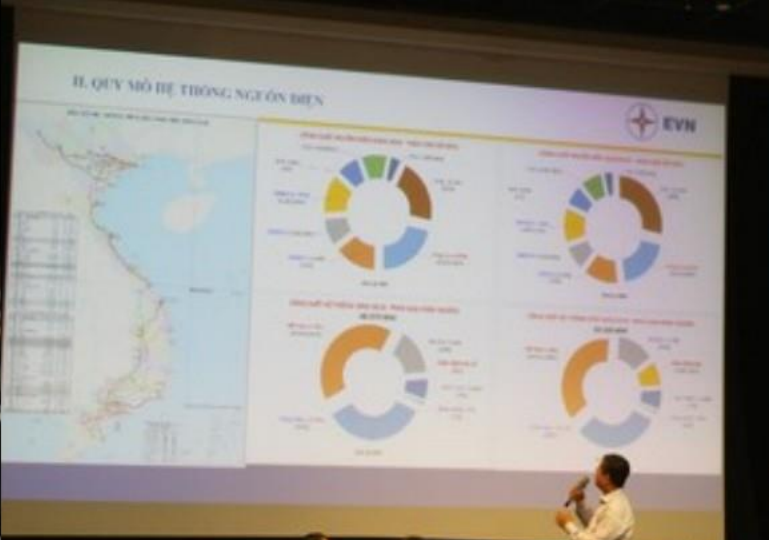
- Total primary energy supply (domestic, import) by type
 - Coal
 - Oil



Yaly Hydropower Dam

Six events organized

- TỌA ĐÀM CÂU CHUYỆN NĂNG LƯỢNG (The story of energy)
2019-08-24, Hanoi.
- Special session on Energy at 11th Vietnam Economist Annual Meeting
2019-06-17/18, Da Lat.
- Alternative power development plan modeling workshop
2018-12-12, Hanoi.
- Capacity building on energy, environment and climate
2018-12-01/02, Hanoi.
- Tọa đàm về Hội nghị COP24 và NDC Media Talk: COP24 & NDC 2
2018-11-24, Hanoi.
- Training Seminar on Energy planning and sustainable development
2018-10-18/19, Hanoi





VIET

What is coming ?

Power sector research

- Role of State management
- Formation of electricity market costs
- Transparency in determining electricity tariffs
- Impacts of climate change on supply and demand

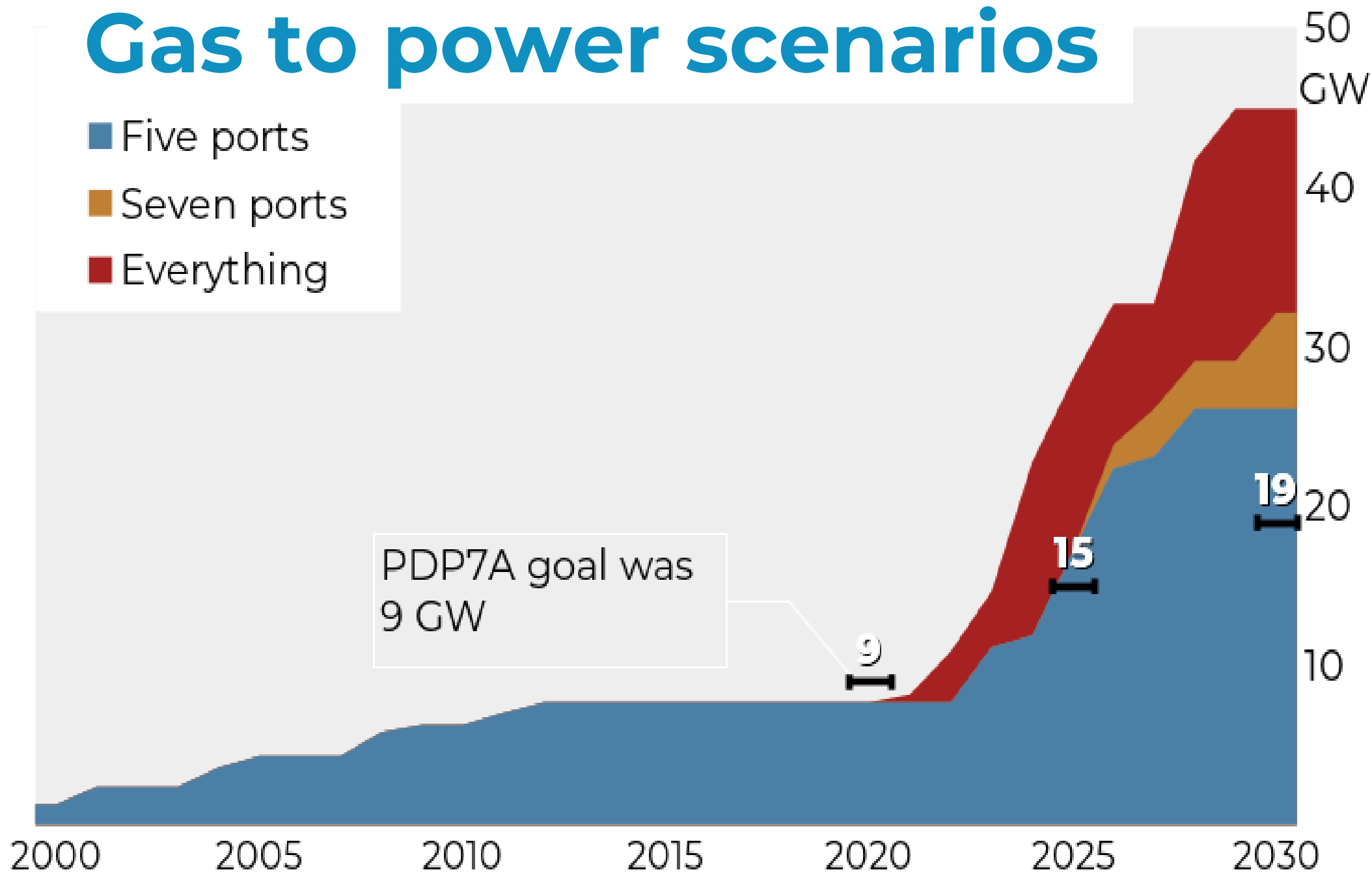
Sectoral scenarios

- Gas to power: where is Vietnam going?
- Three visions about coal power in Vietnam.
- Options for wind power in Vietnam in 2030.
- Renewable Portfolio Standards, co-firing & bioenergy targets.

Gas to power scenarios

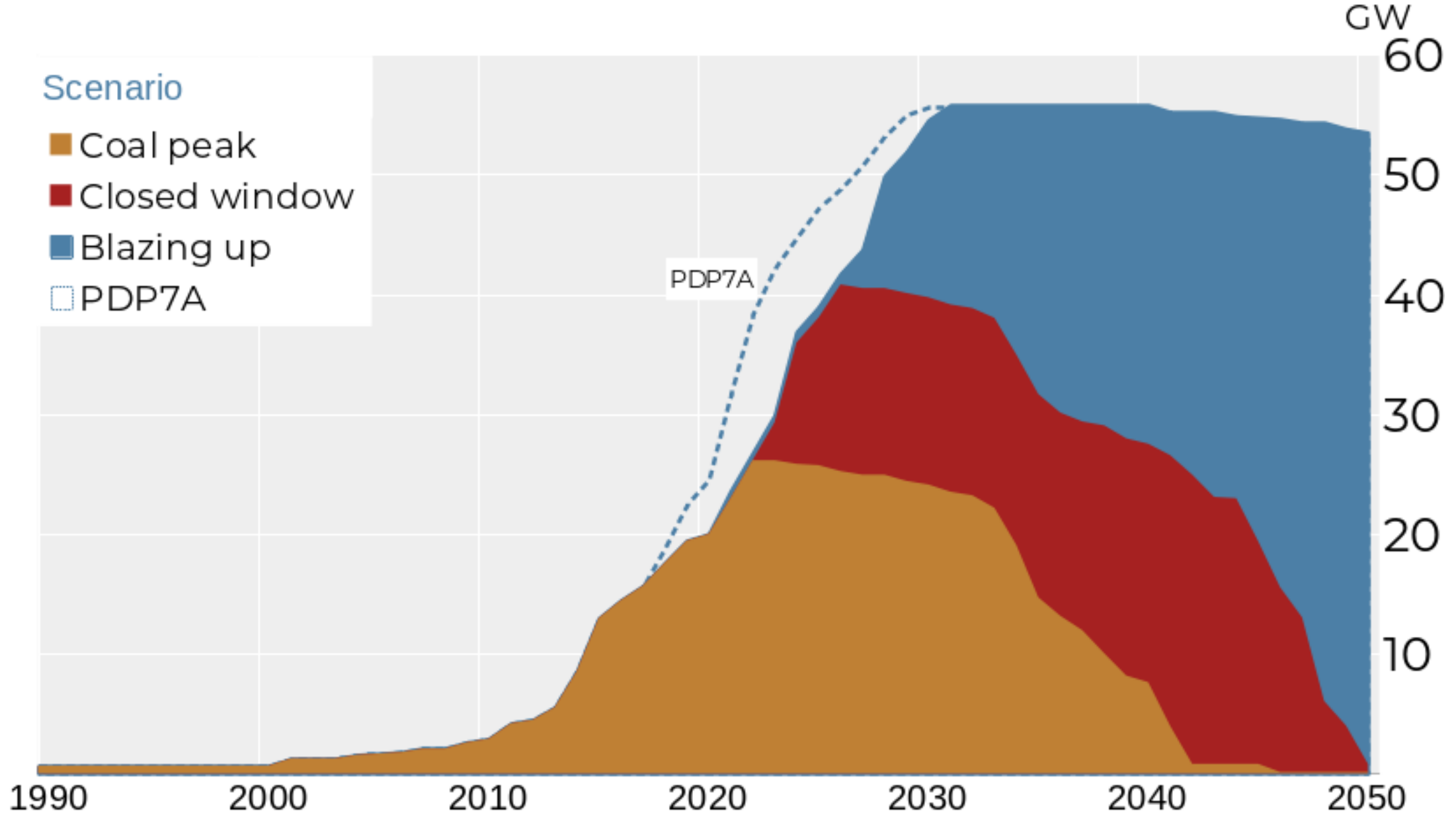
Source : VIET

- Five ports
- Seven ports
- Everything

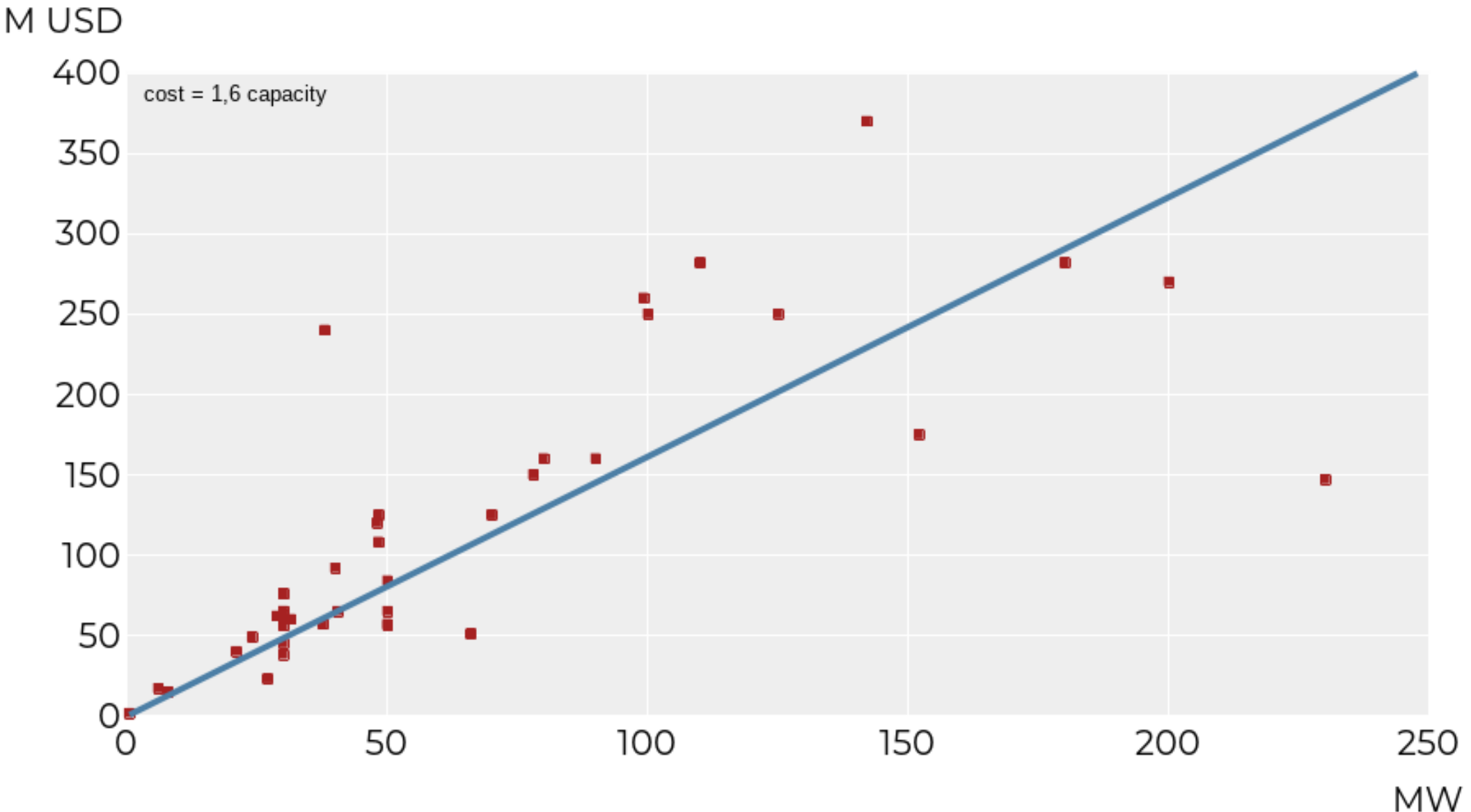


Coal power generation capacity

Source :
VIET



Wind announced at 1600 USD/kW

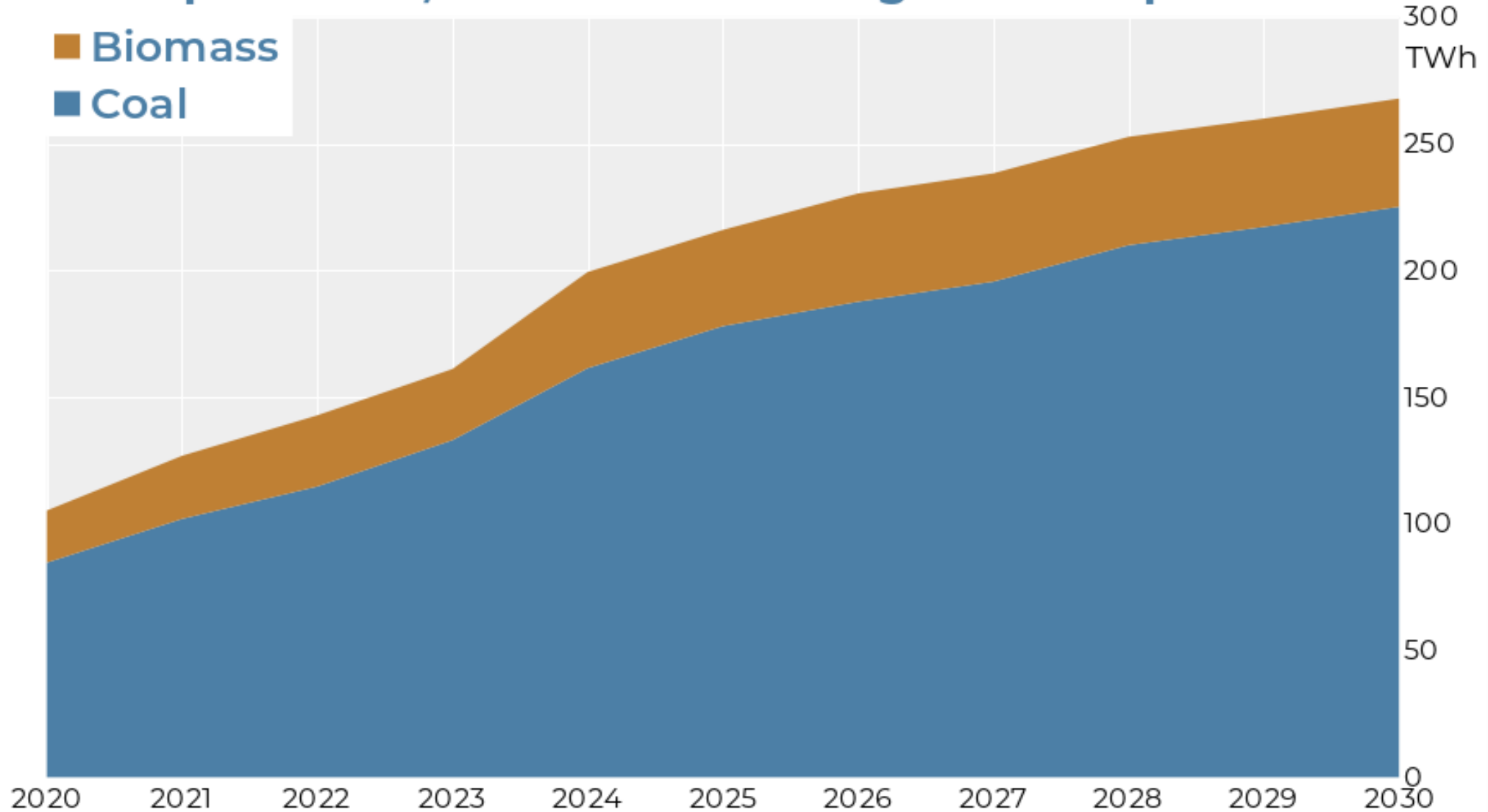


Source :
VIET

Biomass cofiring with coal

TWh produced, PDP7 revised + high carbon price

■ Biomass
■ Coal



Source :
VIET



Regulations
Planning
Biomass
Wind
Grid

Research
Expertise
Consultancy
Training

today a new
**INDEPENDENT
THINK TANK**
is active

Credibility
Excellence
Happiness
Responsibility
Interdependence

Dialogue
Scenarios
Modeling
Economics
Integrated
assessment
International
experience



**420MW
Tay Ninh
Open
Sep 7, 2019**

Thank you