

# OWN IT!

Swedish investments in the global energy sector and how capital affects climate change.

pwc

Summary based on the report "Swedish Capital Allocated to Global Energy Investments" (2014), by PwC, commissioned by WWF. How your savings impact climate change

In addition to our bank accounts, the majority of Swedes also save money through investment and insurance companies. Deposits are made by employers and through private savings in e.g. pension/ pension schemes, housing investments and savings for children.

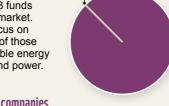
The banks and companies that we use then invest our savings into stocks and securities on the global financial market. Our total savings are 4,000 billion Swedish Kronor (SEK) (\$540 billion). Of that, 60% is invested outside of Sweden\* and about 9% is invested in energy companies. These companies are mostly active in the extraction, production and distribution of fossil fuel based energy: coal, oil and gas.

Through our savings we are all shareholders in activities that contribute to climate change, which threatens the lives of people as well as one third of species to extinction on our planet.

\* These figures refer to Swedish fund and pension companies, shares held by households and by companies in listed and unlisted equity and corporate bonds at the end of 2012.

# Swedish funds focused on renewable energy

There are 16,623 funds on the Swedish market. Of those, 106 focus on energy. Only 17 of those focus on renewable energy like solar and wind power.



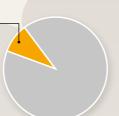
# Carbon-intensive companies in Swedish funds

Of Sweden's 501 funds, 250 are invested in at least one of the world's 200 most carbon-intensive companies.

> Source: Carbon Tracker (2011) Finansinspektionen (the Swedish Financial Supervisory Authority (2014) Forgaut (2014

# Swedish investments in energy

9% of total Swedish investment capital is in the energy sector. That's 50,000 SEK (\$6,750) for every Swede.



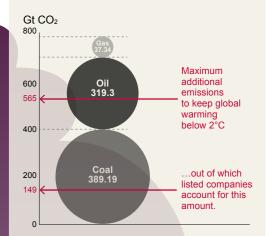
Future emissions from fossil fuel reserves

# tonnes/person during an active life span\*

Through all the different types of saving and investment accounts, everyday people hold shares in numerous companies on the world's stock markets. The Swedish share of listed coal, oil and gas companies has an estimated impact of 5,057 million tonnes of CO2 in future emissions if all those reserves are used. That is 753 tonnes of emissions for each of the 6,7 million pension holders in Sweden.

fossil fuel reserves are the known amount of coal, oil and gas that are conomically able to be extracted with today's technology. (IEA 2013)

# **FOSSIL FUEL RESERVES**



Scientific calculations show that we can only emit an additional 565 Gt  $\rm CO_2$  between now and 2050 to keep global warming below 2°C. The known reserves of fossil fuels amounts to 2,795 Gt  $\rm CO_2$ , or five times the amount that can be emitted

The fossil fuel reserves held by the most carbonintensive stock-exchange listed companies adds up to 745 Gt CO<sub>2</sub>. This alone exceeds the global carbon budget by 180 Gt CO<sub>2</sub>.

If the climate budget is equally divided between all reserves only 149 Gt  $\rm CO_2$  (one fifth of 745 Gt  $\rm CO_2$ ) of the fossil resources can be used up. The remaining 596 Gt  $\rm CO_2$  is what we call 'unburnable carbon', which creates a carbon bubble - resources that can't be used if we are to avoid increasing global temperature. As such, it also constitutes a financial risk for anyone investing in these companies.

Surce: "Unburnable Carbon", Carbon Tracker Initiative (2011)

# Emissions from annual energy production

The amount of coal, oil and gas production coming from Swedish investments on the world's stock markets is 53 million tonnes of CO2 per year.

That's 7.9 tonnes per person each year.

490 tonnes/persor

369 tonnes/person

during an active life spant

Transports including car: c. 3 tonnes/year

Food and drink: c. 2,5 tonnes/year

Housing and clothing: c. 4,5 tonnes/year

Emissions from annual energy consumption
The amount of energy used by Sweden as a whole produces 98 million tonnes of CO2/year. That's 10.6 tonnes per person each year.

Swedish Environmental Protection Agency (2012)

10 years 20 years 30 years 40 years 50

\* Emissions from consumption are made throughout our lives. When we start working, typically at the age of 20, our occupational pension scheme begins to accumulate. This is often supplemented with private savings for future investments. Given an average life span of 82 years (Statistics Sweden) the active period of accumulating capital is 62 years.

50 years

60 year

70 years

80 years

A globally fair and sustainable share of greenhouse gases per person is <1 tonnes/year.

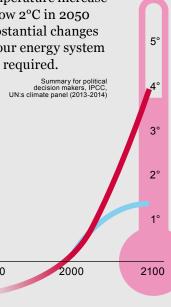
tonnes CO<sub>2</sub>

WORK

# WHAT CLIMATE SCIENCE TELLS US

The human influence on climate is evident. Continuous emissions of greenhouse gases will cause additional global warming. To keep the

temperature increase below 2°C in 2050 substantial changes in our energy system are required.



Parallel to a substantial increase in fuel production, primarily oil too. This means that necessary transformation of the world's energy systems isn't happening at the pace that climate science dictates.

 More than \$1,600 billion are annually invested to provide the world with energy. Out of this, \$ 1,100 billion are invested

Fossil fuels 78.4 %

Billion dollars (2012

in renewable energy investments. and gas. investments in fossil fuel are rising, • The share invested in renewable

energy has increased substantially and now amounts to \$250 billion per year However this is only 15% of the global energy budget. World Energy Investment Outlook, IEA (2014)

World Energy Investment Outlook, IEA (2014)

decrease in economy growth – a rather modest cost at a growth rate of 3%.

'It doesn't cost the world to save

he planet!

Dr Ottmar Edenhofer, IPCC WGIII AR5 co-chair (2014)

The parliament, the government and its agencies, and the EU establish the framework for the financial market

# Who makes the decisions that lead us to investing in the problem?

**ASSET OWNERS** 

actors

companies 52%

Insurance

Banks and

funds 27%

(D)

National Pension

Funds 21 %

# OWNERSHIP POLICY

# STRATEGIC CAPITAL ALLOCATION

# States how investments are allocated between different assets (listed

- States acceptable risk levels and management costs
- Capital allocation policy is the responsibility of the board but it is often designed by the fund's manager

• Minimum 30% in fixed income instruments

• Maximum 5% in unlisted securities

• Maximum 40% to be exposed to

• Restrictions on direct investments

Not allowed to invest in commodities

exchange rate risk

 Aims for a high return on investment for its customers and unlisted stocks, bonds, loans, • States the company's obligations commodities, etc.) according to external rules, owner's

- States how to act within, and influence, the companies in which one holds shares
- The Annual General Meeting (AGM) elects a board that decides on the ownership policy

• Deliver a return that contributes to

national pension scheme payments

and environmental considerations

without compromising on returns\*

Regulated by law prepared by

by the multi-party Pension Group

the Ministry of Finance, agreed

and decided by Parliament

Act for longterm gain and take ethical

vision and ethical principles

# INVESTMENT STRATEGY

# There are many different ways

- Any strategy for investment that capital.
- investment managers who have a mandate for a certain part of the fund's or bank's capital.



# to achieve the results desired by whoever owns the capital.

- starts with an ownership policy and guidelines for how to invest
- Investments are usually made by
- The AP pension funds are obliged to use external managers for at least 10% of their capital.



R Fund managers lack incentive to include climate change data in their investment decisions.

Fund managers lack a mandate to develop climate change compliant investment strategies.



Fund managers have no or low competence about the relationship between investments and climate change.

1/3 of animal species are at risk of extinction

from climate change impacts.

150,000 people die prematurely

Increased risk of catastrophic flooding.

Harvests of wheat, maize and

rice become reduced at 1°C

global warming, resulting in

reduced food security.

Rising sea levels 🏻 🏂

water and increase

coastal erosion.

will place land under

every year as a consequence

# "SUBSTANTIAL REDUCTIONS OF EMISSIONS REQUIRE SUBSTANTIAL CHANGES IN INVESTMENT FLOWS." Global energy consumption 2012

Renewable energy 19 %

of Swedish investments in the energy sector. Swedish investments

globally: SEK 4000 bn (\$540 bn).

which SEK 370 bn (\$50 bn)

Fossil reserves. investments in energy is

Funds focusing on Russia are without equal the most fossil intensive – more than half (52%) of the reserves in Swedish portfolios are Russian. ollowed by USA (34%) and EU (10%).

# Fossil fuel companies investments in renewable energy

One argument sometimes heard for investing in large Fossil fuel companies is that they also invest heavily in renewable energy. However, PwC's analysis shows that only 0.5-4.0 % of investments from energy companies such as BP, Shell, and ExxonMobile are directed towards renewables



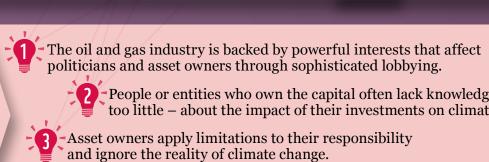
adds up to SEK 4000 bn (\$540 bn).

People or entities who own the capital often lack knowledge – and ask too little – about the impact of their investments on climate change.



Short-term financial return is by default prioritized over long-term responsibility.

in the investment decision process:



6 - Narrow definitions of "risk" omit the connection between investments and climate change. Investment regulations on risk and solvency currently favor listed fossil fuel companies.

[5] Investors minor shares in fossil fuel companies

limits the effects from "engagement".

# Invest in renewables and increased energy efficiency for a living planet.

# PARLIAMENT AND GOVERNMENT

## Make CO2 disclosure mandatory

Help customers make active decisions and make it mandatory for all banks, funds, and insurance companies in Sweden to disclose the carbon footprint of their investments.

## Climate-proof the AP funds

Assign the AP funds to immediately phase out their holdings in coal companies and to develop their management in line with the findings in climate research in order to keep global warming below 2°C.

# **ASSET OWNERS**

## Climate-proof the management of your assets

Chose managers who offer measurable strategies to keep global warming below 2°C with viable investments in energy efficiency and renewable energy according to climate change science.

# Be transparent towards customers and politicians

Take the initiative to build an open dialogue with both politicians and investors regarding what it takes to steer the capital flows in society to limit global warming below below 2°C..



# **ASSET MANAGERS**

# Climate-proof your asset management

Develop strategies and internal incentives for asset management in line with climate change science in order to keep global warming below 2°C.

# Be transparent towards customers and politicians

Help institutional and private investors to take active decisions by disclosing the climate change impact of your investments.

# INDIVIDUAL SAVERS

# Make your savings climate safe

Ask your fund manager or bank how your own savings impact – and are impacted by – the climate change. Ask for investment options that consider both your capital and the future of the planet.

### Raise your demands

Call on the government and parliament to commission the AP funds to develop their management in line with climate change science in order to keep global warming below 2°C.



## Why we are here

To stop the degradation of the planet's natural environment and to build a future in which humans live in harmony with nature.

wwf.se

SUMMARY BASED ON THE REPORT "SWEDISH CAPITAL ALLOCATED TO GLOBAL ENERGY INVESTMENTS" (2014), PWC, COMMISSIONED BY WWF. ALL FACTS ARE FROM PWC'S REPORT IF NOT OTHERWISE STATED.

## THANKS TO:

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