



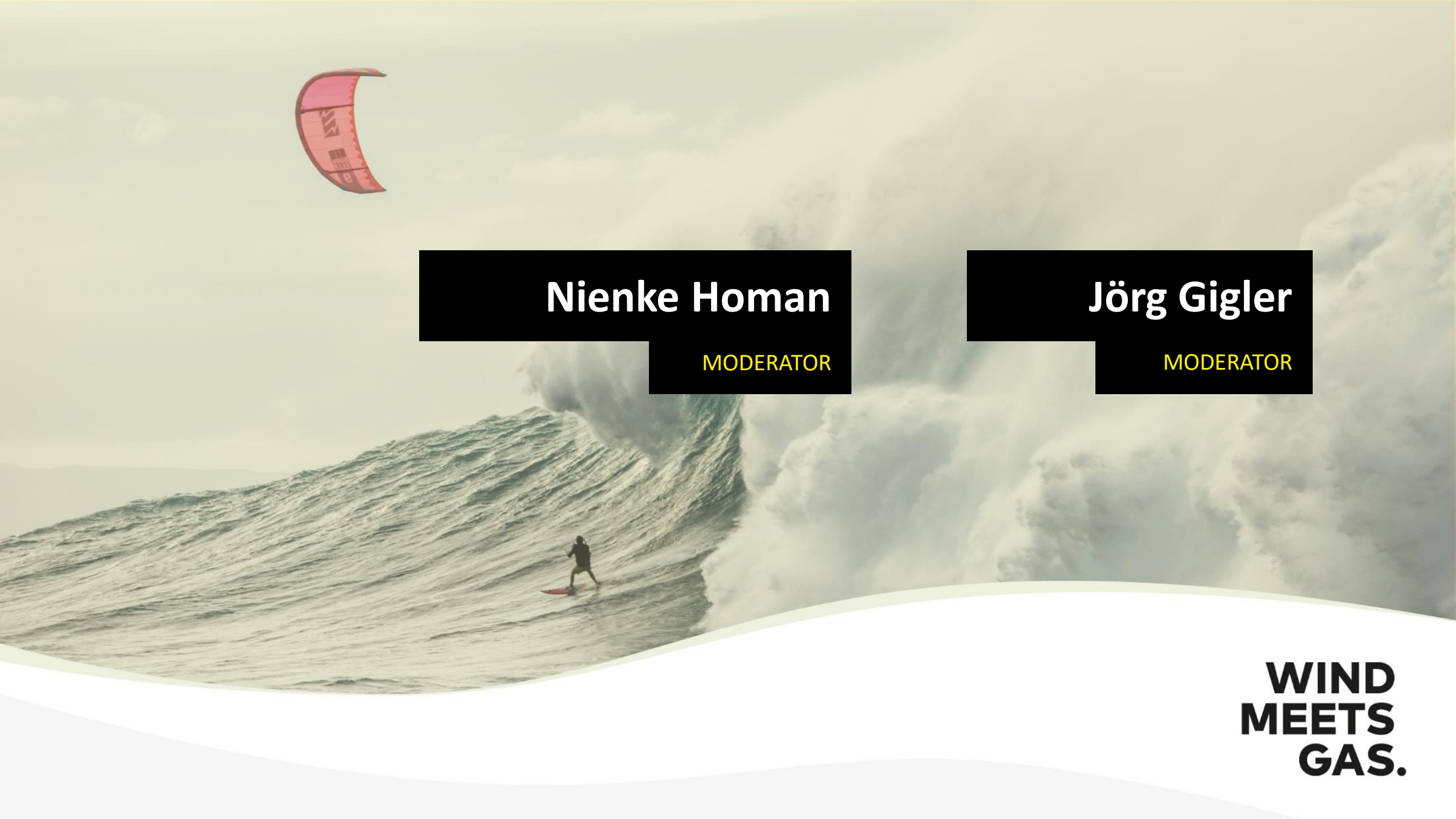
WIND MEETS GAS.

North Sea United towards net-zero

#WindMeetsGas23

New
Energy
Coalition

Drivers of Change



Nienke Homan

MODERATOR

Jörg Gigler

MODERATOR

**WIND
MEETS
GAS.**

Regional governmental perspective



Koen Schuiling

Mayor of the municipality of Groningen



Henk Jumelet

Regional minister of the province of Drenthe



Johan Hamster

Regional minister of the province of Groningen



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#WindMeetsGas23



Drivers of Change

Perspectives on green industrial activities in the Northern Netherlands



Hans Coenen
Gasunie



Patrick van de Voort
Vopak



Grete Tveit
Equinor



Roger Miesen
RWE



Pierre Devillers
ENGIE



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Drivers of Change



WIND MEETS GAS SUMMIT

13 October 2023

Let's Connect Hydrogen

nnect Hydrogen Let's Connect H



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Drivers of Change

Workshops 11:15 – 12:30

Session A: Hydelta 2: Overcoming barriers in the upscaling of hydrogen
Forum Groningen - Rabostudio

Session B: From ideas to impact: Energizing the entrepreneurial ecosystem for the energy transition
House of Connections

Session C: LIHYP – North Sea cooperation on regional hydrogen chains – Supply and demand platforms
Martinikerk – de Kapel

Session D: Hydroports as umbilical connection between the Northsea powerhouse and the onshore backbone
Martinikerk – de Librije

Session E: Groningen Airport Eelde – The first Hydrogen Valley Airport
Groningen Airport Eelde

**WIND
MEETS
GAS.**

Break

10.45 - 11.10

North Sea United towards net-zero

#WMG2023

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GAS.**



WIND MEETS GAS.

North Sea United towards net-zero
#WindMeetsGas23



Drivers of Change



Ibren Feijen

NEW ENERGY COALITION

**WIND
MEETS
GAS.**



Lorenzo Squintani

University of Groningen

**WIND
MEETS
GAS.**



Towards adaptive energy law

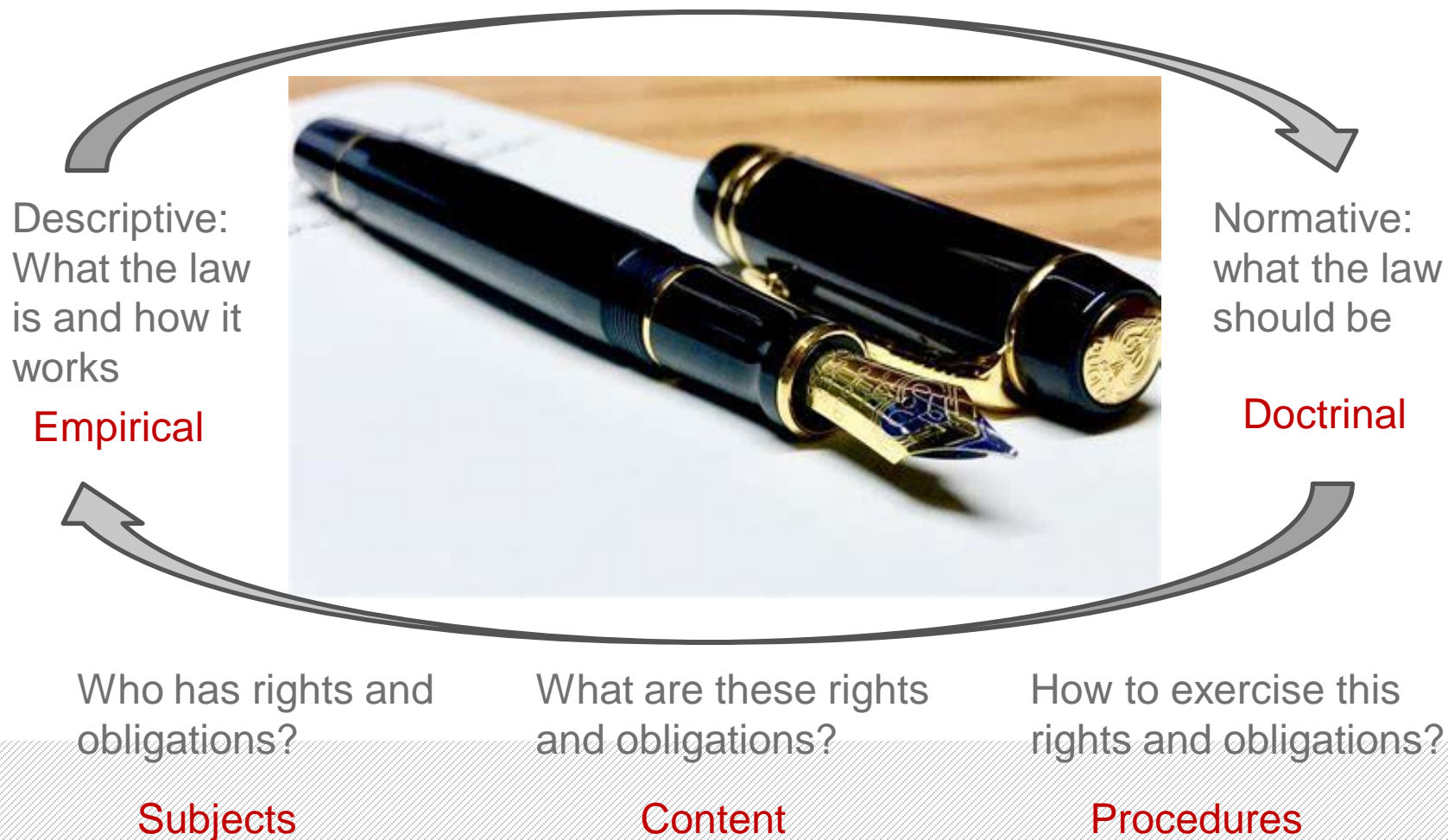
Prof. Dr. Lorenzo Squintani

Groningen Centre of Energy Law and Sustainability,

Wubbo Ockels School for Energy and Climate



What is (energy) law?



A theoretical framework for energy sustainability (Gaines, 2014):



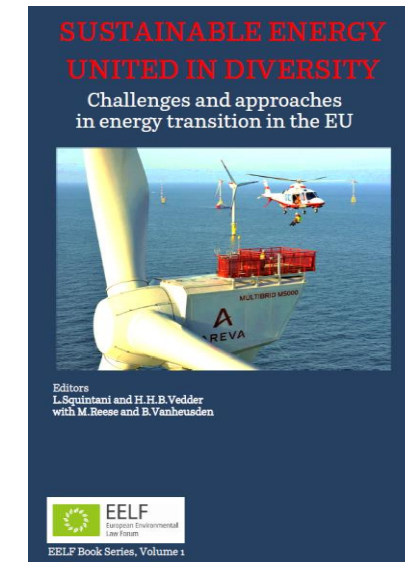
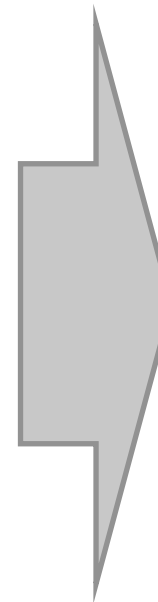
Brundtland
Report



Social-Ecological
Resilience



Millennium
Ecosystem
Assessment





A theoretical framework for energy sustainability (Gaines, 2013):



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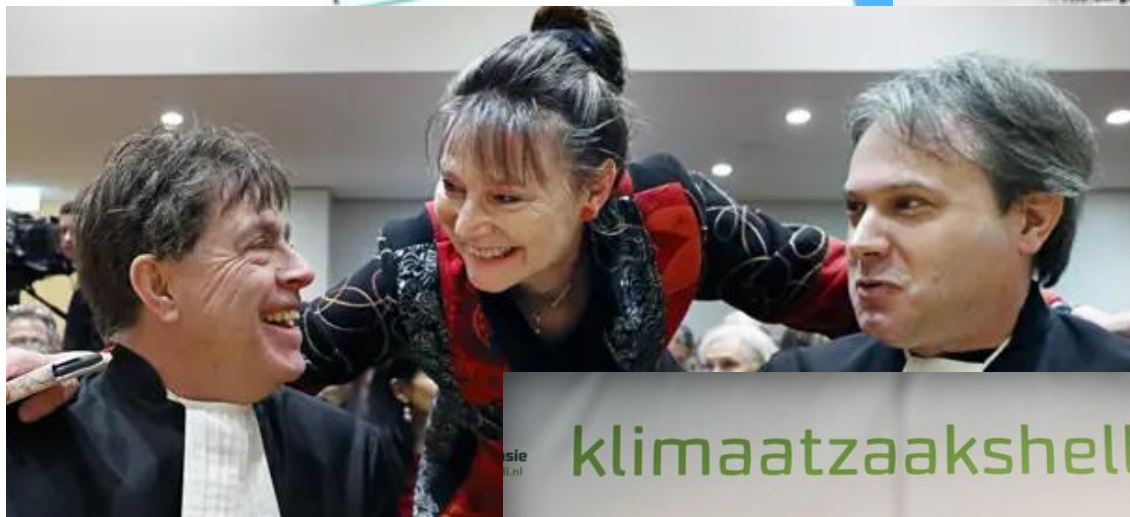


Copyright: Federica Fortunat



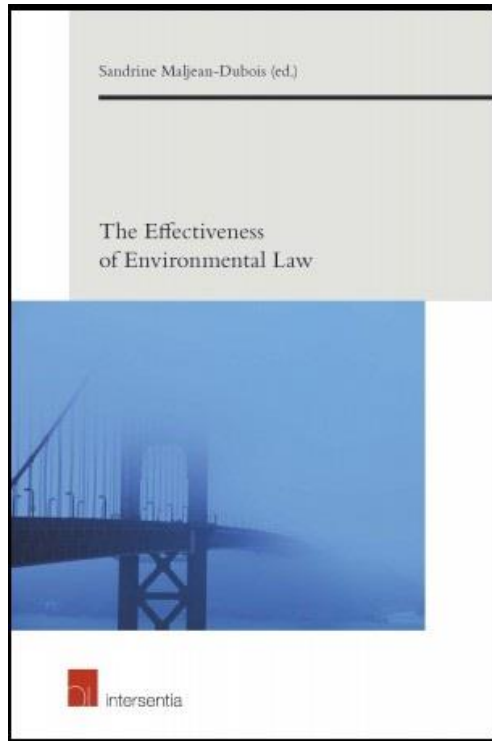
Adaptability of regulatory frameworks:

- › Ability to cope with developments in understanding of the 3Ps
- › Ability to cope with developments in understanding of how law influences 3Ps



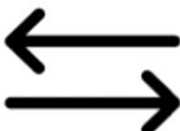





Law vs Reality



- › Legal effectiveness
- › Behavioural effectiveness
- › Real-life effectiveness

Even the most progressive frameworks can become conservative (Aarhus C., 1998):

Aarhus	Escazú	IBSA			Aarhus	Escazú	IBSA
V	X	X	Dialogue	Decision-making power	X	X	X
Aarhus	Escazú	IBSA			Aarhus	Escazú	IBSA
X	X	X	Diversity	Deliberation	X	X	V



WIREs Climate Change, Volume: 13, Issue: 1, First
published: 16 November 2021, DOI: (10.1002/wcc.749)



Source: Nieuwe Rotterdamsche Courant (NRC)



Source: Dagblad van het Noorden (DvhN)

Trouw

DIEPING DUURZAAMHEID&ECONOMIE RELIGIE&FILOSOFIE OPINIE CULTUU

Bodem

Het plan om waterstof op te slaan in holtes na zoutwinning zorgt voor nieuwe onrust in Twente



Source: omroepbrabant.nl



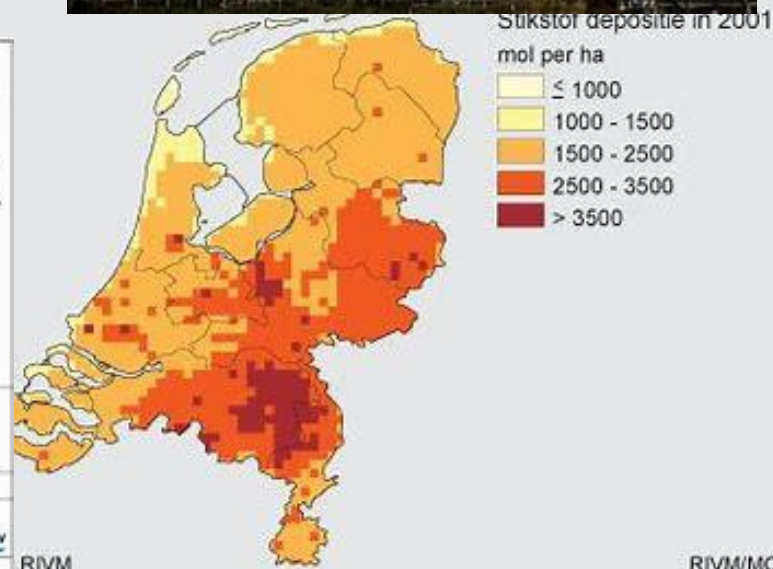
Source: Nieuwe Rotterdam



Source: Trouw



onderdelen Porthos,



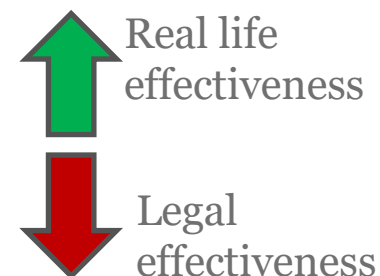
RIVM

RIVM/MC/okt02/0181

Where it goes wrong:

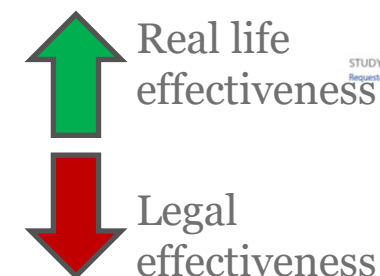
› Regulatory approaches:

- Quality Standards (nature and water law)
- Immission limit values (air quality law)
- Emission limit values (climate law)
- Technical standards (energy law)

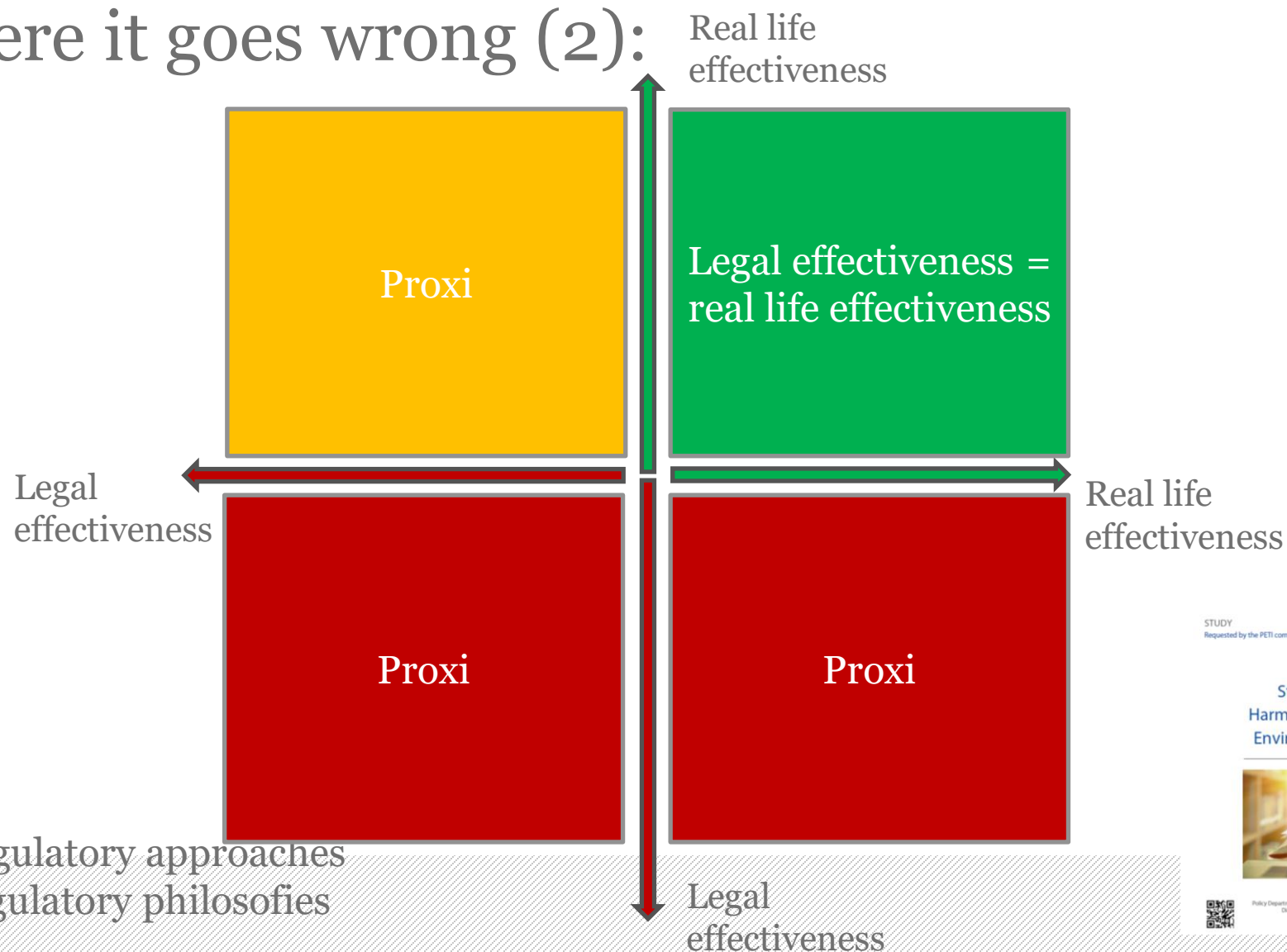


› Regulatory phylosofies:

- Ecosystem based (nature and water law)
- Science based (air quality law)
- Policy based (climate law, energy law)
- Market based (cliamte law, energy law)

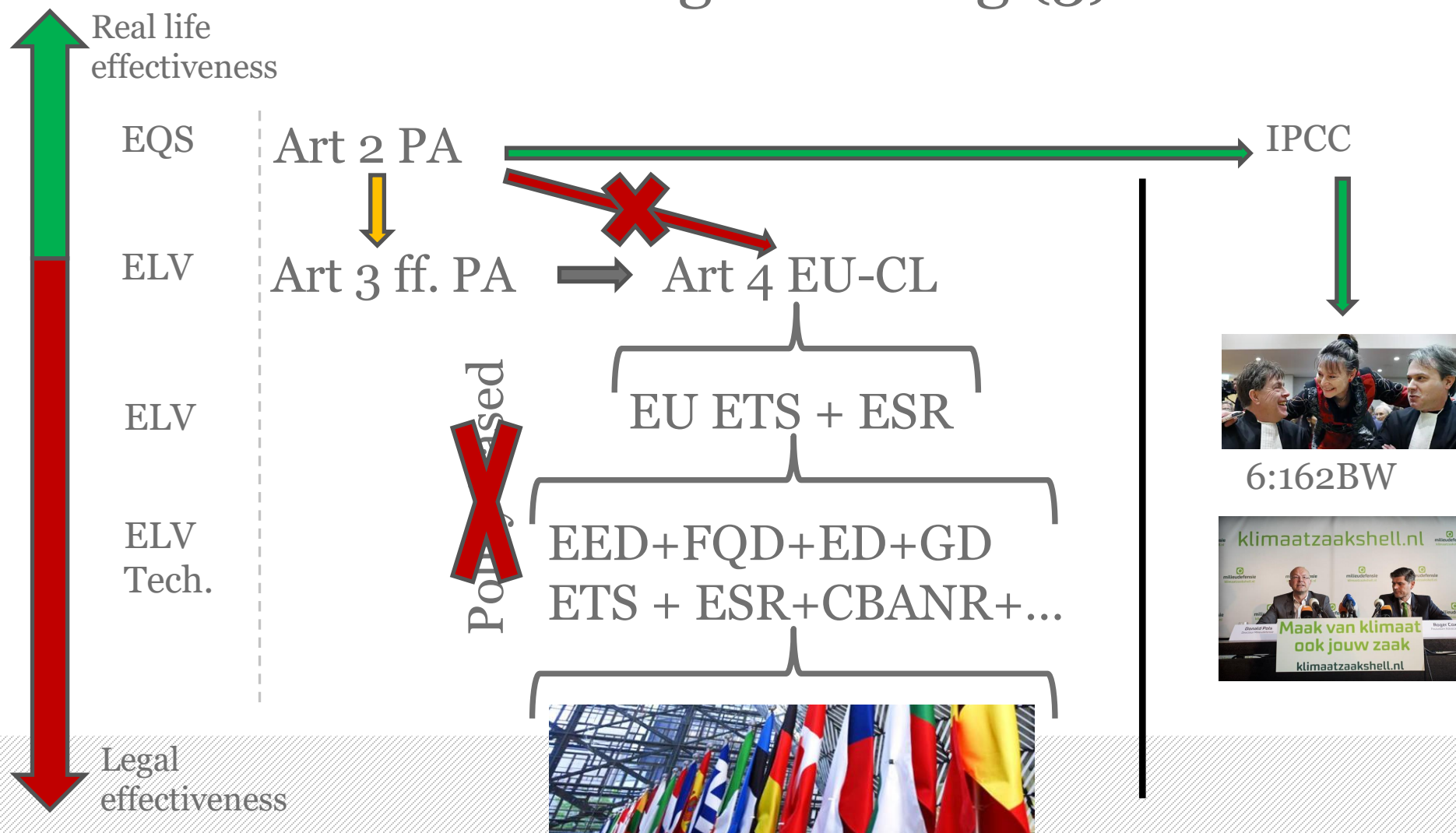


Where it goes wrong (2):



X = Regulatory approaches
Y = Regulatory filosofies

Where it goes wrong (3):





How to make energy law more adaptive?

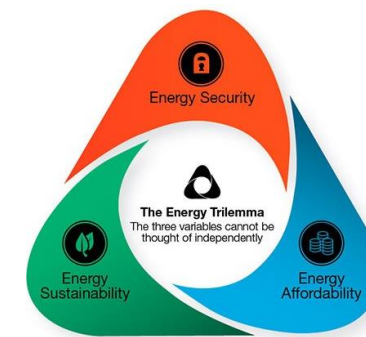
- › Step 1: choose a modular normative paradigm for balancing the 3Ps



‘a safe, environmentally sound, and economically viable energy pathway that will sustain human progress into the distant future is clearly imperative’

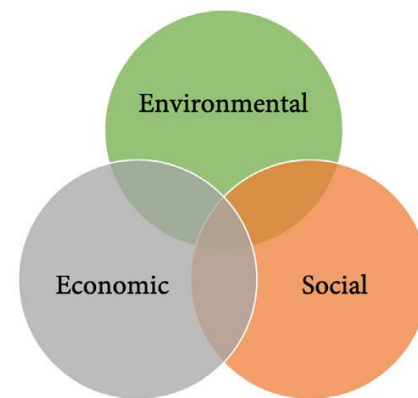


Sustainability

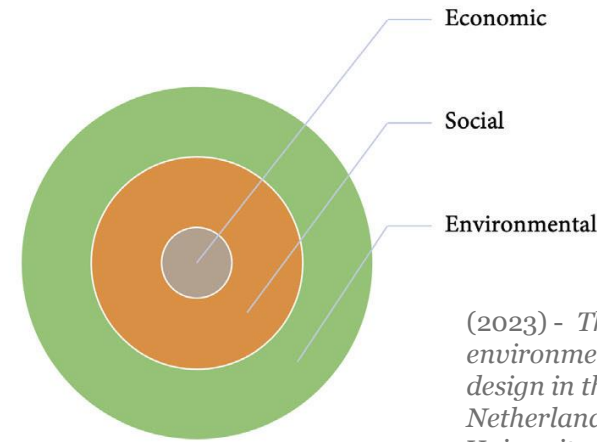


Energy Trilemma

EU law does not understand sustainability



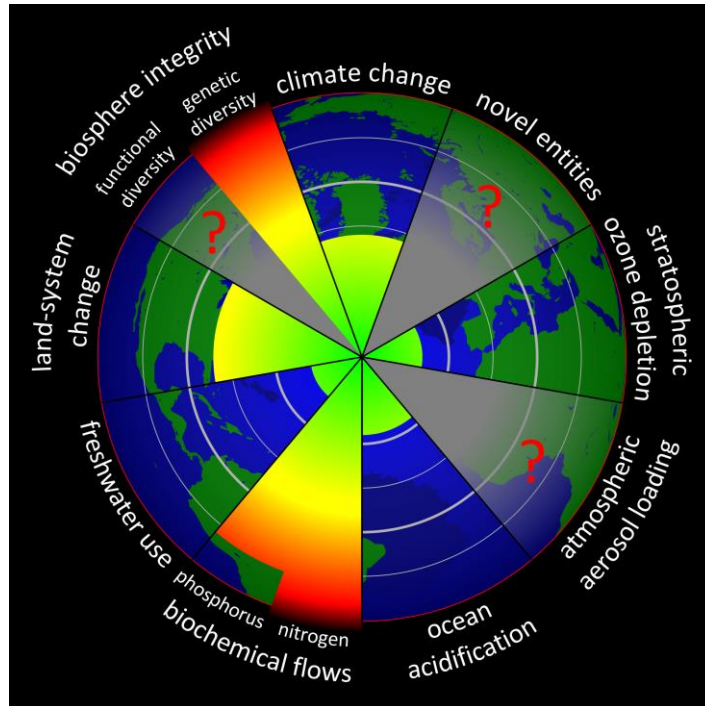
'Weak Model'



'Ecological Model'

(2023) - *The programmatic approach in environmental law: towards a legal design in the European Union and the Netherlands that pursues sustainability.* University of Groningen.
<https://doi.org/10.33612/diss.615117804>

From rigidity to modularity:



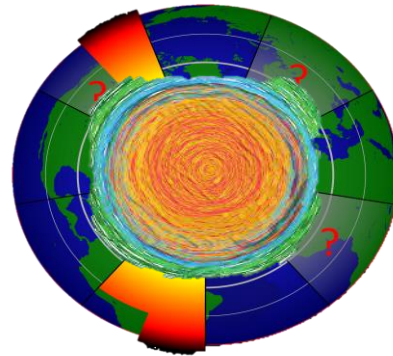
Source: Steffen, W., et al., 2015. Planetary boundaries: Guiding human development on a changing planet. Science 347
Image from, [kosmosjournal.org](https://www.kosmosjournal.org)



(2023) - The programmatic approach in environmental law: towards a legal design in the European Union and the Netherlands that pursues sustainability. University of Groningen.
<https://doi.org/10.33612/diss.615117804>

How to make energy law more adaptive?

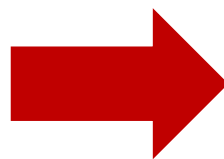
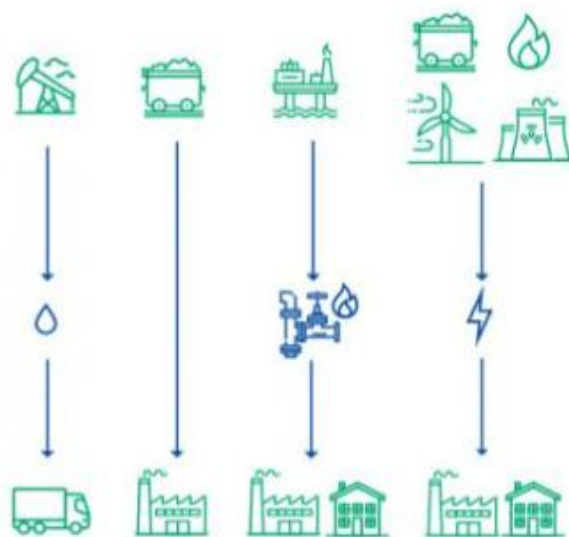
- › Step 1: choose a modular normative paradigm for balancing the 3Ps
- › Step 2: from sectorial to integrated energy law



From sectorial to integrated:

The energy system today :

linear and wasteful flows of energy,
in one direction only



Future EU integrated energy system :

energy flows between users and producers,
reducing wasted resources and money



Source: European Commission, EU Energy System Integration Strategy.

How to make energy law more adaptive?

- › Step 1: choose a modular normative paradigm for balancing the 3Ps
- › Step 2: from sectorial to integrated energy law
- › Step 3: base the system on principles



Principles based Energy Law



Black et al.

“...moving away from reliance on detailed, prescriptive rules towards more on high-level, broadly stated principles by which regulated firms must conduct business”

- broad-based standards in preference to detailed rules;
- outcomes-based regulation;
- increasing senior management responsibility.

Principles-based energy law:



Heffron et al.

Table 3. The seven principles of energy law

Principles of energy law

1. The Principle of National Resource Sovereignty
2. The Principle of Access to Modern Energy Services
3. The Principle of Energy Justice
4. The Principle of Prudent, Rational and Sustainable Use of Natural Resources
5. Principle of the Protection of the Environment, Human Health & Combatting Climate Change
6. Energy Security and Reliability Principle
7. Principle of Resilience

Table 2. Principles of climate change law

Principles of climate change law

1. Principle of Common but Differentiated Responsibilities
2. The Precautionary Principle
3. Principle of Intragenerational Equity
4. Principle of Intergenerational Equity
5. Principle of developed states to take the lead and protection
6. Sustainable development concept
7. Principle of cost-effectiveness
8. Principle of cooperation and knowledge transfer
9. Principle of accountability and transparency
10. Principle of the Common Concern of Humankind

Table 1. Principles of environmental law

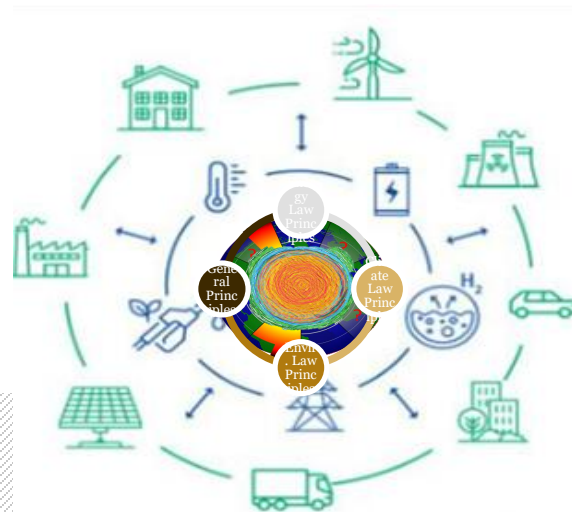
Principles of environmental law

- The principle of a high level of environmental protection
- The polluter pays principle
- The principle of prevention
- The precautionary principle
- The principle that environmental damage should, as a matter of principle, be avoided
- The principle of responsibility for transboundary harm
- The principle of public participation
- The principle of sustainable development
- The principle of integration
- Intergenerational and intragenerational equity
- Access and benefit sharing regarding natural resources

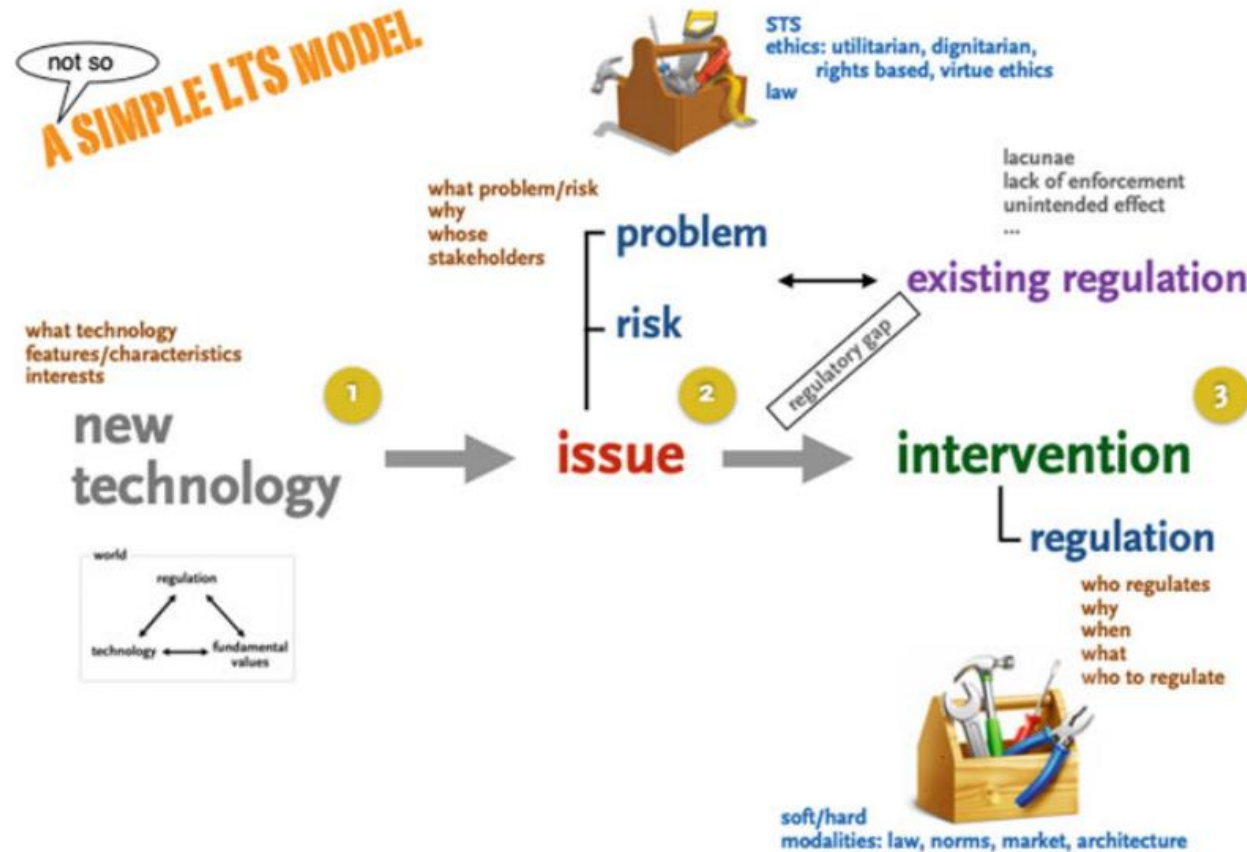


How to make energy law more adaptive?

- › Step 1: choose a modular normative paradigm for balancing the 3Ps
- › Step 2: from sectorial to integrated energy law
- › Step 3: base the system on principles
- › Step 4: socio-technical-economical innovation oriented rules

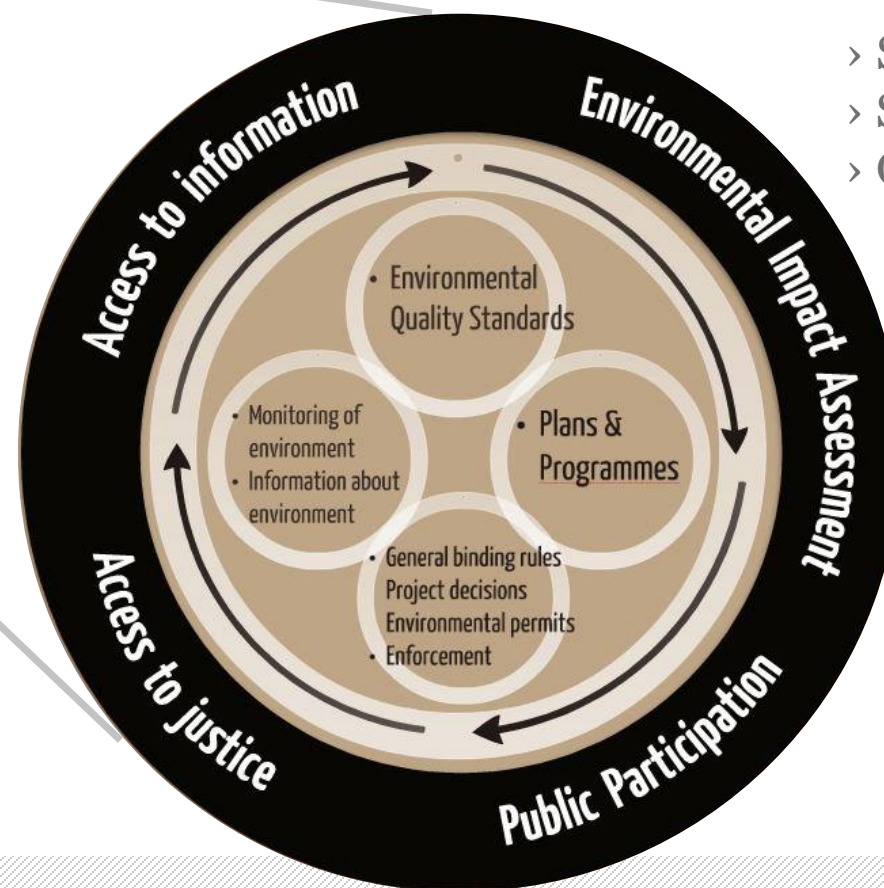
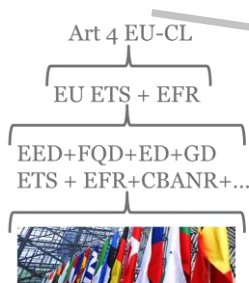


Socio-technical-economical innovation



Leenes

Full regulatory chain approach:



- › Sunset clauses?
- › Sandpits clauses?
- › One-in one-out clauses?

How to make energy law more adaptive?

- › Step 1: choose a modular normative paradigm for balancing the 3Ps
- › Step 2: from sectorial to integrated energy law
- › Step 3: base the system on principles
- › Step 4: socio-technical-economical innovation oriented rules
- › Step 5: automatize the system



Models to adapt regulations:



› IPCC → Science based model



› BREFs → Stakeholders based model



› COPs → Policy based model

Automatize the system:



› IPCC → Science based model



› BREFs → Stakeholders based model



› COPs → Policy based model





Model-based decision-making already exists!

[Home](#) > [AERIUS](#)

AERIUS



Je bent hier: [Home](#) / [Nieuws](#) / [Uitspraak kort geding over gebruik AERIUS Calculator](#)

Uitspraak kort geding over gebruik AERIUS Calculator

23 maart 2023

Afgelopen dinsdag, 21 maart jl., heeft de Rechtbank Den Haag uitspraak gedaan inzake het kort geding dat door Stichting Stikstof Claim (SSC) samen met een veehouder was aangespannen tegen de Staat, over het gebruik van de AERIUS Calculator. De rechtbank komt tot de conclusie dat de zaak in een bodemprocedure inhoudelijk moet worden behandeld en wijst de vorderingen van SSC in het kort geding af.

Verloop van de zaak tot nu toe

De SSC stelde de betrouwbaarheid van de AERIUS Calculator ter discussie en eiste dat er een betere methode voor stikstofberekeningen moet komen en er tot die tijd geen gebruik gemaakt kan worden van dit rekenmodel. De Staat heeft daarop gesteld dat het meten van de stikstofuitstoot vooraf niet mogelijk is en met behulp van een model moet worden berekend. Er is op dit moment geen alternatief voor de AERIUS Calculator, aldus de advocaat



AERIUS



AERIUS
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AERIUS Register voor bevoegde gezagen verwerkt stikstofgegevens voor de boekhouding van het gebruik in stikstofbanken.

[Start AERIUS Register](#)



AERIUS
MONITOR

AERIUS Monitor laat de huidige en verwachte stikstofdepositie in Natura 2000-gebieden zien.

[Start AERIUS Monitor](#)



AERIUS
CHECK

Design for an adaptive energy law system:



1. Ecosystem based
2. Integrated
3. Principles based
4. Innovation oriented
5. Automatised, where appropriate



Let's make *energy law* a better
place!



WIND MEETS GAS.

North Sea United towards net-zero

#WindMeetsGas23

New
Energy
Coalition

Drivers of Change

Energizing the future



Denisa Kasa
Future Energy Leader



Pierre Devillers
ENGIE



Roger Miesen
RWE



Hans Coenen
Gasunie



Akhilesh Goveas
Future Energy Leader



Damilola Adeyanju
Future Energy Leader

“Let’s talk about the Green Deal!

Bringing the youth voice into the dialogue to ensure longevity

A predictable and
simplified regulatory
environment

Faster access to
Funds

Pillars:

**Green Deal
Industrial
Plan**

Enhanced skills

Open trade for resilient
supply chains



Audience Question (poll open)

**What is the biggest challenge we
can anticipate in making the
Green Deal a reality?**



Audience Question (Agree/Disagree)

**Adequate mechanisms are in place for
youth voices and participation in the
Green Deal Industrial Plan.**

Dialogue 1

How can we amplify youth voices in the Green Deal decision-making and ensure meaningful participation through specific mechanisms?

Dialogue 2

Youth are emerging green innovators. How can we support them in boosting youth-led clean-tech start-ups in the green economy?



Audience Question (word cloud)

How can skill development programs be tailored and refined to align with youth's needs, aspirations, and contexts, ensuring relevancy and engagement?

Dialogue 3

Given the potential impact on jobs during the green transition, how can the industry effectively up-skill and re-skill workers in strategic industries?

Dialogue 4

How can youth influence a mindset shift in VC, moving from 90% investment in software to increased funding for clean tech and hardware, supporting the Green Deal?

Dialogue 5

How can global youth networks collaborate on climate solutions and advance the Green Deal Industrial Plan through international cooperation and best practices?"



Audience Question (poll close) - Panelist viewpoint

What is the biggest challenge we can anticipate in making the Green Deal a reality?

How can we navigate the challenges?



Reserve Audience Question (Agree/Disagree)

In Europe, there is four times more wind capacity caught in permitting delays than under construction.

Reserve Dialogue

How can we slash permit approval times to enhance clean technology scalability through simplified, fast-track processes?

**WORLD
ENERGY
COUNCIL**

**FUTURE ENERGY
LEADERS**

THE NETHERLANDS

Launch Moment

Meet

Future Energy Leaders, the Netherlands

WORLD
ENERGY
COUNCIL

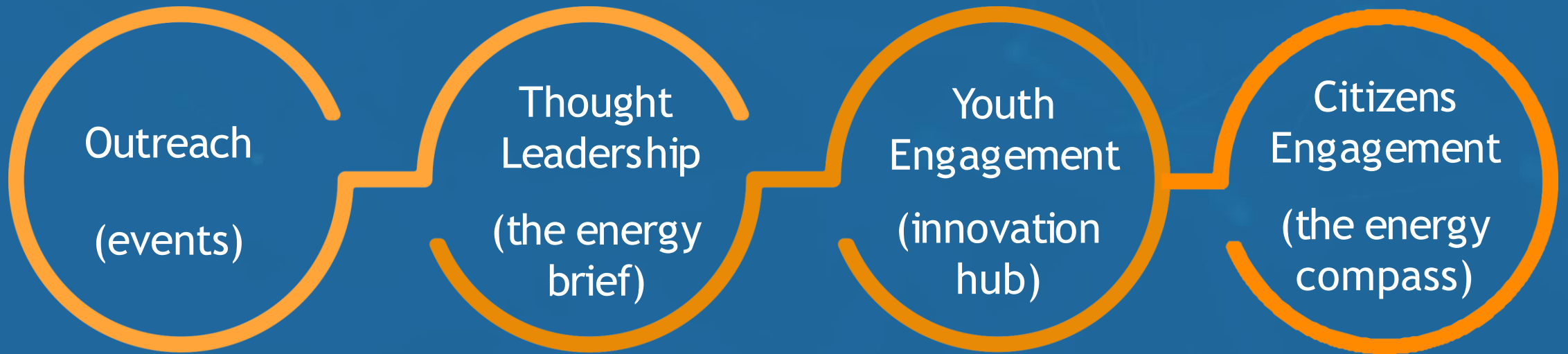
FUTURE ENERGY
LEADERS

THE NETHERLANDS

*"Creating a platform that empowers
young people to make an **impact** in
the **energy** landscape through
intergenerational dialogue."*



Our Activities



Some Impressions

WORLD ENERGY COUNCIL
4th CONGRESS ROTTERDAM
21-25 April 2024
Redesigning Energy
for People and Planet



It's time for Energy Advocacy
by Thaddeus Anim-Somuah

Board Member Future Energy Leaders, World Energy Council

“I'm excited to invite you to join me on the #RoadtoCongress to advocate for Redesigning Energy for People and Planet. I have some ideas, maybe you do too. Together we can create the transparency, build trust and deliver the transformation needed.”

WORLD ENERGY COUNCIL
4th CONGRESS ROTTERDAM
21-25 April 2024
Redesigning Energy
for People and Planet



**“REFLECTIONS ON RECHARGE
EARTH CONFERENCE & EXPO 2023”**
BY DENISA KASA


NATIONAL FUTURE ENERGY LEADER,
THE NETHERLANDS

WORLD ENERGY COUNCIL
4th CONGRESS ROTTERDAM
21-25 April 2024
Redesigning Energy
for People and Planet

THE ENERGY INSIGHTS FROM LEADERS

“It seemed to me that our generation is rather eloquent in systems thinking as the presentations were versatile in nature and involved multi-faceted researches.”

WORLD ENERGY COUNCIL
4th CONGRESS ROTTERDAM
21-25 April 2024
Redesigning Energy
for People and Planet



(Re-) Claiming Energy's Leadership
by Ivo Wakounig

Future Sustainability Leader of Y45 at Masdar, Impact & Sustainability Adviser at World Energy Council

“ADSW, COP 28, and the World Energy Congress are intermediate, but essential steps into redefining the energy sector's role in climate debates – it is not the bad guy in class but the enabler for human wellbeing.”

WORLD ENERGY COUNCIL
4th CONGRESS ROTTERDAM
21-25 April 2024
Redesigning Energy
for People and Planet



Embracing Collaboration for a Sustainable Future
by Damilola Adeyanju

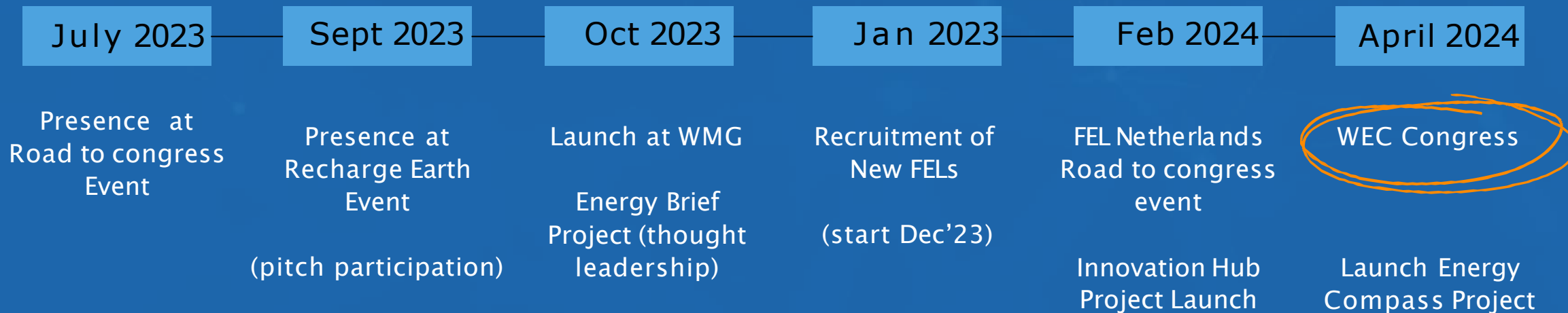
Executive Coordinator at Arctic Basecamp
Global Future Energy Leader, World Energy Council
Co-Lead, Future Energy Leaders The Netherlands

“Embracing a sustainable energy future should not merely be a goal but a shared responsibility. Hence, it is essential that we work together towards a greener, more prosperous tomorrow. As we embark on the transformation of our energy systems, collaboration, youth empowerment, and citizen engagement are paramount.”

The World Energy Congress in April 2024 at Rotterdam will provide a pivotal opportunity to explore and deepen these crucial aspects of redesigning energy for people and the planet.”



Activities in Pipeline



WORLD ENERGY COUNCIL



**26th CONGRESS
ROTTERDAM**
22 - 25 April 2024

Redesigning Energy
for People and Planet

7,000+
INTERNATIONAL ENERGY
STAKEHOLDERS

18,000+
TOTAL
ATTENDANCE

150+
COUNTRIES

70+
MINISTERS

250+
SPEAKERS

60+
SESSIONS

100+
EXHIBITORS

1,200+
MEDIA
REPRESENTATIVES

Visit the website to learn more <https://worldenergycongress.org/rotterdam/>

follow us!



lets continue the energy conversation

Thank you!



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**FUTURE ENERGY
LEADERS**

THE NETHERLANDS

**WORLD
ENERGY
COUNCIL**

**FUTURE ENERGY
LEADERS
THE NETHERLANDS**

THE ENERGY BRIEF

INSIGHTS FROM LEADERS OF TOMORROW

THE ENERGY COMPASS

Engaging Citizens in the Energy Dialogue



**Innovation
Hub Project**

**WORLD
ENERGY
COUNCIL**

**26th CONGRESS
ROTTERDAM
22 - 25 April 2024**

**Redesigning Energy
for People and Planet**



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Drivers of Change

Matchmaking

North Sea United towards net-zero

#WMG2023

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Drivers of Change