ICSDP 2015/ T1 :Sustainable Energy and Climate Change

ENERGY & SUSTAINABLE DEVELOPMENT: THE REALIZATION OF A NEW GLOBAL COMPACT ON ENERGY ARCHITECTURE DEVELOPMENT.

REAL AND EVIDENCE-BASED RESULTS FROM OUR EXECUTIVE ENERGY EDUCATION CLASS-ROOMS AND CONSULTANCY

THIS PAPER IS A SEQUAL TO THE PRESENTATION MADE AT UN SDSN/ ICSDP 2014 CONFERENCE .

FOCUS OF THIS PAPER IS ON PROPOSALS FOR ORGANIZING OURSELVES ON THE AGENDA OF ENERGY & SUSTAINABLE DEVELOPMENT

Paper by Adriaan Kamp- Founder of Energy For One World

www.energyforoneworld.com

(updated version 6- extended version)

By defining our goal more clearly, by making it seem more manageable

and less remote, we help all people to see it, to draw hope from it,

and to move irresistibly towards it.

President John F. Kennedy, 1963 and quoted by Professor Jeffrey Sachs, 2014

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Abstract

Our world civilization is experiencing an accelerating and dynamic change- in technology, in innovation and in social changes. Our world is also under rapid construction and development, with new wealth and wealth distribution being created, every day, and at an unprecedented speed. Energy is vital and essential to modern day life; the wealthier people are, the more energy is used.

Over the coming two to three decades some 3 billion people across the developing world are expected to join the new global middle-class and are prognosed to enjoy the same consumption patterns in their homes, in their offices and in their transportation now so much taken for granted in the OECD and upper middle class families in the emerging and developing nations. By the middle of the century, it is projected that there will be 9 billion people sharing this planet.

Right now, 1.2 billion people are living beyond the grid and without access to energy. For millions, night-time brings darkness or the dim lighting of a kerosene lantern or candle. In Africa, these challenges disproportionately affect those living in rural areas. In Africa, over 290 million people use kerosene as their main source of lighting. Even for those living with access to electricity, this is often insufficient or unreliable.

The role access to energy plays in development, and particularly sustainable development, has only recently been fully recognised. The year 2015 will see the end of the Millennium Development Goals and the establishment of the Sustainable Development Goals, with a real focus on energy, it will also see the latest in climate change negotiations; impacting on energy policy and strategy going forwards. The Sustainable Energy for All work has focused on energy access as a human right, and this will shape future decisions and actions.

Our goal is and can best be to realize universal energy access for all.

So the question is:

How best can we organize ourselves in order to ensure that everyone on the planet can enjoy affordable, reliable and sustainable access to energy?

Earlier this year we could listen to the voice of Pope Francis, the G7 Political Leadership- and learn from Professor Jeffrey Sachs and John Rockstrom that we are accelerating ourselves crossing planetary boundaries and - perhaps also a little bit ourselves.

So in essence- Religion, Politics and Science have spoken and are asking us- the Energy Professionals- men and women- to do better.

To work better together, and to create the better energy architectures and better economies such that we, humanity- can stay out of trouble, grow the social justice and harmony in and between ourselves and truly steward and enjoy this wonder called planet Earth.

Now and in the Future.

So, over the next decades, the energy industry and sustainable development practitioners will have to make some important decisions and create new solutions and architectures – in energy and economy- that can last.

The purpose of this paper is to encourage ourselves some new possibility thinking in the way we organize ourselves and share some evidence-based examples of how we can go about this.

Contact Information:

AdriaanKamp@energyforoneworld.com

Norway: Energy For One World

(**Office Norway No:** +47 40767156)

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1.. The Sustainable Development Goals, Energy & Sustainability: Re-minding ourselves of what we are after: What do we need to change and re-organize in the Energy Sector in order to help realize the Sustainable Development Goals and build Vibrant Sustainable Societies?

*"**Every Energy Company** and **Every Energy Architecture** in this world **can be improved upon** in order to raise the **availability, affordability** and **sustainability** of **energy to all**".- Adriaan Kamp, 2015*

The **post-2015 UN Sustainable Development Goals and Agenda**, including the climate change negotiations- offer us ("the world") a golden opportunity to raise the (types and levels of) conversation we have on Energy and build the better (industrial) capabilities for more **integrated** energy architectures, befit to the 21st century.

In our transportation and cars, in and around our houses and offices, and in agriculture and industries we build.

In essence: changing the (business, national) game(s) we are in.- on energy security, sustainability, availability and affordability concerns.

How can we do that?

Well, first of all, parties (governments, business community) , in general terms, already acknowledge the fact that in order to have or attain truly sustainable economies and societies- we need to have **sustainable energy architectures.**

We cannot deliver **on the Sustainable Development Goals** if the **underlying (world) energy system** is unsustainable, volatile or unreliable.

It's that simple.

The Energy For One World practice works from the simple belief and understanding that "our organisational forms" determine to a large degree also our abilities to execute and deliver on this vision and strategies.

"Function (Results) follows our Form (Organisation)".

As we are transiting from the MDG towards the SDG (including Climate Change goals)- and we acknowledge

In the words of Amina J. Mohammed, the Secretary-General's Special Adviser on Post-2015 Development Planning:

"For the first time, we're not putting a band-aid on the problem. We're looking at the root causes. And unless we make the investments to look at those root causes, we are going to continue to have the conflicts escalate, we're going to continue to see the damage in the environment, and more and more people are going to be excluded," said Amina J. Mohammed, the Secretary-General's Special Adviser on Post-2015 Development Planning. In a recent

that we are shape-shifting from an agenda solely focussed on the "bottom of the pyramid" towards an agenda focussed on the "whole and the aggregate of the pyramid"- it is clear that we may have to change our organisational form (or functional deliveries) as well.

As the order and magnitude of the program is so much "bigger and all encompassing"- we may want to open the conversation on how we want to go about this large new change challenge- as it will require new working pacts in and between businesses, governments, academia, and society.- and across our national borders.[12]

And these working approaches and organisational forms may be different in the East and in the West, in the North and in the South.

Surely- this work has been done- in the many working groups[3] preparing for the goals and the agenda- but as with everything- the conversion from vision/strategy to reality and realisation- in and over time- does need leadership, experience and imagination- perhaps beyond the machinations of bureaucracy and our today's working habits.

Earlier I have given a brief and presentation- on what may be needed in the field of Energy & Sustainability. At UN Level, and at the national and energy corporations level.

If of interest- I encourage you to read my briefing papers- Go to UN SDSN briefing papers- or to contact me in person.

For this note, and this conversation- I will stay focussed on where we may want to improve on our organisational forms to realize and execute this hope and dream.

The transition from MDG to SDG's - actually asks and invites us to *Re-write*, *Re-form* and *Trans-form* some of the existing beliefs, rules and experiences.

Let our business community please better listen to the voice of the people: it's much better to build vibrant and sustainable societies than to see tired or angry people- willing to act on it all.

As such- we are invited to build the better bridges and across the various silo's in the energy value chains, and we are invited to assume the better leadership and stewardship styles- creating the positive progressive changes and places where no harm is done - and we all long for. Here and there. Now and tomorrow.

The consequences and implications of further "poor or defensive corporate strategies" in the main energy corporations over our energy sector ('keep our heads down or looking the other way') - in order to just hold-off and sustain- are no longer an issue of self-interest. [45]

They are and have truly become an issue of the global common good, and the geo-politics of emotions.

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[1] The Coming Multi-Trillion Dollar Climate Change Investment Drive- Steward Taggart
[2] New forms and formats to boost e.g. renewable are being created as we speak
[3] E.g. UN SDSN Deep-de-carbonization project
[4] The voice of an elder: Sir Mark Moody-Stuart
[5] The unrealized horror of population explosion

As such- the calls for Climate Change and Social Justice are not only a Pandora's box in between people and companies, it is and has also become a Pandora's box in the hands of the politicians and military: from China and India, Africa and Russia to the OECD : it *can* become ugly and nasty: un-healthy.[6] [7] [8]

Money, guilt and international relationships. And it's 'brewing'. And with all the continued and contentious attention and issues on it- will keep 'brewing' if we don't find the better pathways of “talking and walking”.

So- it's much better to build and embrace the new post-2015 UN Sustainable Development Goals full-heartingly - and get "real" about them.

It's much better to be honest, reach-out of our ivory towers- and become much more open and willing to learn and embrace modernity, innovate and realize the better social and energy architectures: from well and mill-to- electric wheel, from mill and panel to socket- and between society and business.

As an Energy professional - you may feel pride for your country, your company and passionate about your individual trade. But please let us be clear about this: the better pathways forwards are about in and between ourselves.[9]

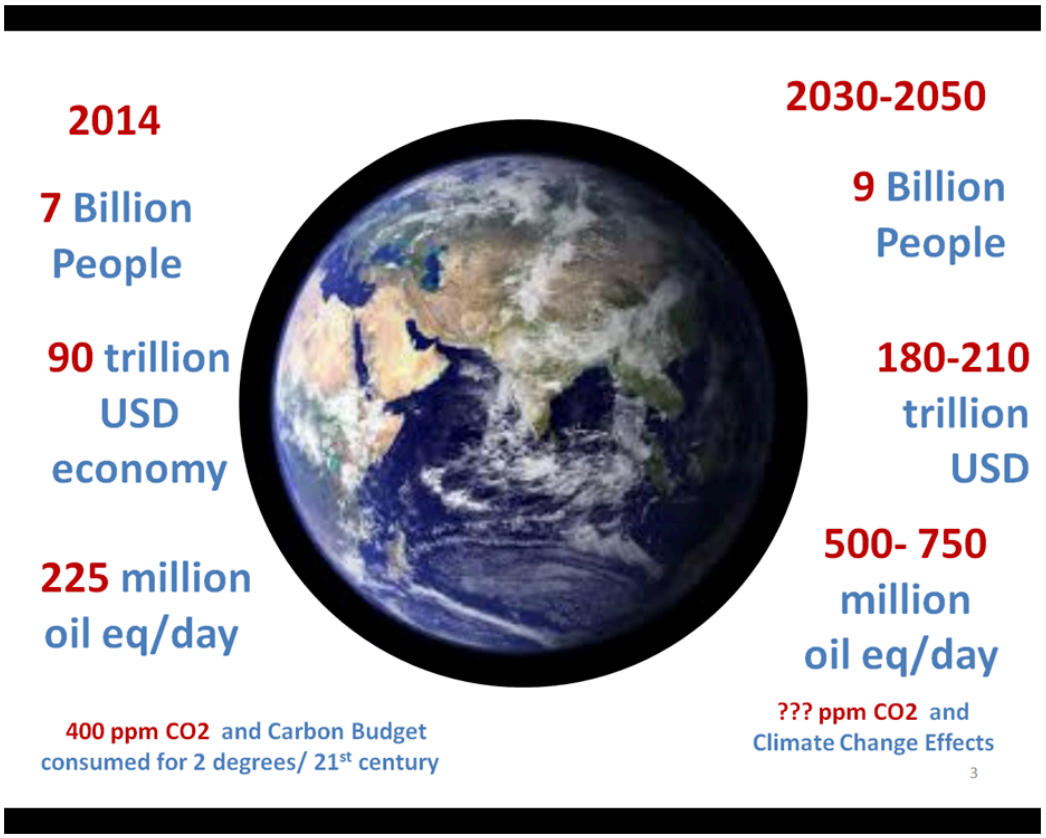
Let's stop the arguments, let's stop the pointing fingers, let’s stop the protective or putting blame on politicians or the ignorance of people: No more need to protect what cannot be protected. No more blames on politicians, lobby, the international situation or instruments (e.g. CCS, ETS) - which are actually "smoke and mirrors" - hiding our own responsibilities[10].

Let's simply lead and build the better bridges- the better co-alitions of the willing- and help to build the better energy architectures- for the people- and in and between the sector and nations: crossing-borders, crossing silo's.

That is the key call and topic of this working paper.

I believe that the energy professional will find it actually quite inspiring to choose to become "a force for good".: a force of unity- not polarity.A force of finding the better organisations and roles to play in the business of energy architecture developments.

[6] Chatham House
[7] The unrealized horrors of the population explosion
[8] Paris Climate Negotations; West must pay up
[9] Are you in it to win and serve your own self interest? Or are you in it to build sustainable societies?
[10] The Voice of a Wisdom Leader, Sir Mark Moody-Stuart


2014
7 Billion People
90 trillion USD economy
225 million oil eq/day
2030-2050
9 Billion People
180-210 trillion USD
500- 750 million oil eq/day
400 ppm CO2 and Carbon Budget consumed for 2 degrees/ 21st century
??? ppm CO2 and Climate Change Effects
3



The way we "act and speak" about Energy & Sustainable Development does matter: A shift in minds and mind-sets. Evidence-Based Leadership

*"**Every Energy Company** and **Every Energy Architecture** in this world **can be improved upon** in order to raise the **availability, affordability** and **sustainability** of **energy to all**".- Adriaan Kamp, 2015*

Earlier[11] I have made the observation- on some of the typical arch-type behaviours and mind-sets out there- when we speak about progressing our economies or our (self) interests:

Worldviews from **Energy for One World**

Very much simplified:-

As you may understand, different world views- or ideologies- affect our believes, our relationships, our inter-actions and our decision making - and determine to a large degree how prepared we are to make "acts" in order to advance our and our neighbours societies.

[11] In workshops and executive energy classroom engagements.

Personally - I like to think in the term - "building" sustainable societies, or sustainable organisations and communities.

And as we speak about this process of "building"- we are actually also to include in our plan-making and considerations- the different and local perspectives (around the globe) on the ways and methods by which societies progresses itself.: The hard-ware and soft-ware of the whole constellation we find ourselves in.

In the more developed economies we may clearly see the invitation to re-form, transition, and transform our past achievement towards a more balanced and sustainable lifestyles and form within and between our societies.: “To dampen some of our problems and make some room for the new.”

This is also very much true in the sector of Energy & Sustainability: a re-orientation and overhaul in the ways by which we power and transport ourselves is clearly needed- and can be done:

Climate science is real. We live in One World- shared between many people- and the West or oil/gas rich nations (most developed nations) uptake of fossil fuels is clearly un-sustainable and in no relation to its’ share in global population. [12]

Evidence-Based, Innovative and Inspired (Spirited) Leadership

It is perhaps in our *Minds* and *Mind-sets* that we can and will find our biggest hope.

With everything said and done- "*sustainability*"- is something which runs "deep" and comes from within": It's a conscious awareness and choice.

So- the UN (and our) ambitions to rise to the occasion and develop the world to a next realm or realization- can, and to our mind, cannot solely be based on scientific goals and targets, but has also very much to do with an effort to maintain and raise the Minds and Mind-sets of our diplomats, of governments, of leadership in corporations, and in our (UN) organisations of campaigns- on the goals and results.

It is this new "State of Being", this true and honest way and inspired “spirit or leadership”- which in effect may create the better hopes and have the biggest effect on us all.

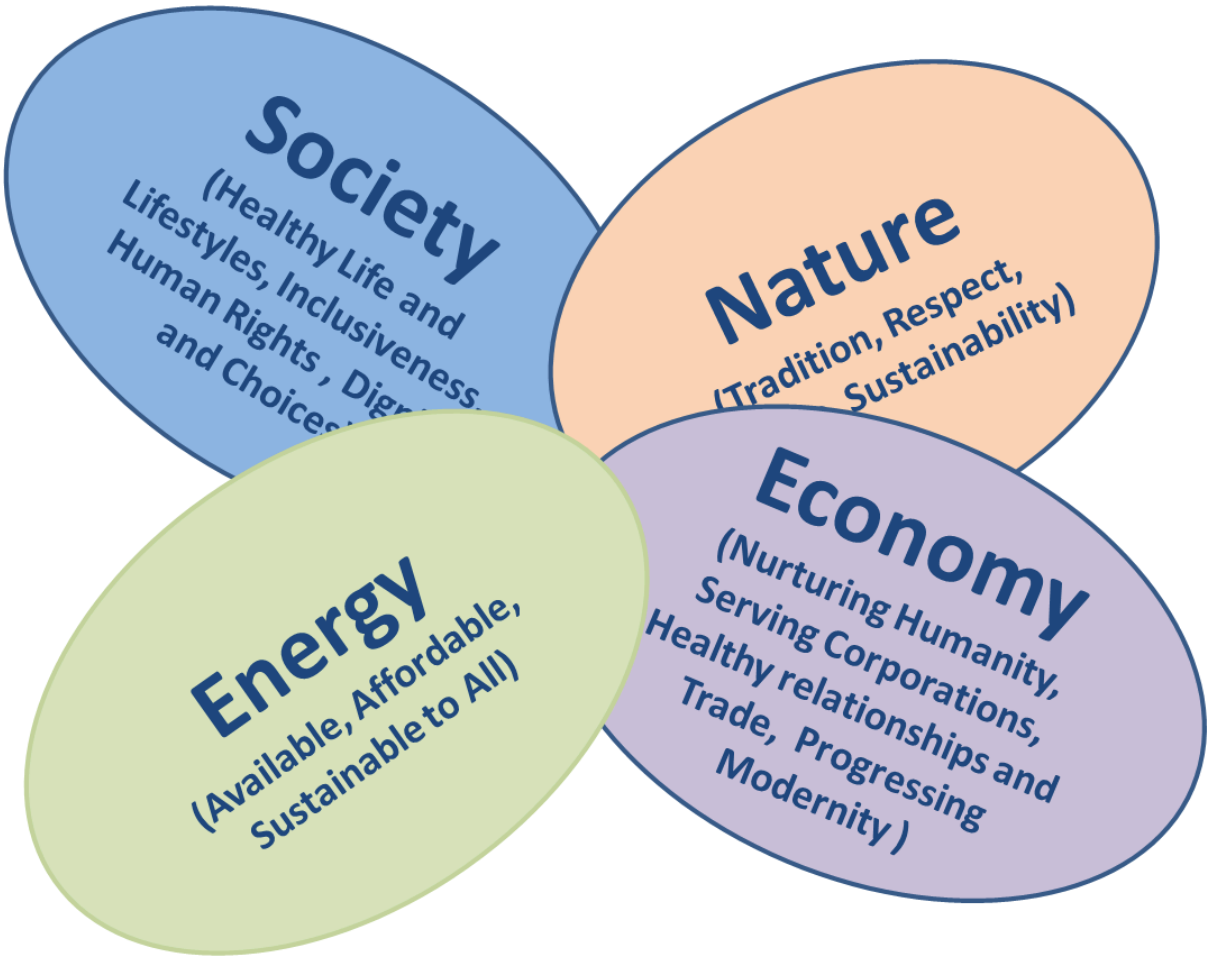
When everything is said and done- the good news is - you are not alone[13]:

[12] This also relates to the ways the (state/free-market) conventional oil and gas industry carries our business development in emerging and developing nations.
[13]

Laudato Si ! Go directly to the Encyclical

Pope Francis has spoken similar styled words. And as his words deeply resonates with my practice believes and understandings- I can only ask you to take a moment of your time to read and familiarize yourself with the words of his Encyclical.

God of love, show us our place in this world
as channels of your love
for all the creatures of this earth
for not one of them is forgotten in your sight.
Enlighten those who possess power and money
that they may avoid the sin of indifference,
that they may love the common good, advance the weak,and care for this world in which we live.
The poor and the earth are crying out.
O Lord, seize us with your power and light,
help us to protect all life,
to prepare for a better future,
for the coming of your Kingdom
of justice, peace, love and beauty.
Praise be to you!



Our minds and mind-sets matters in our choices - in and over our society, our economies, in our relationship towards each other and nature.

It matters in and over our choices in Energy and Energy Architecture development. It' matters in nurturing our next level of consciousness- in and between each other.

As such, the energy architecture on location is a reflection of the socio-political, economic, ecological and business philosophies, leadership and interests exercised on location.

Inspired (Spirited) leadership may help to shed lights over the shadow sides in these today's realities and may help "to bring inspiration and light"- to the people and the things we want or need do-ing".[14] As such- an open conversation on Sustainable Societies (we want) does matter.[15]

[14] Energy transition, energy architecture re-forms and transformation
[15] A good example is Bhutan- where the gross national happiness index is leading: go to article

Of course, and not of unimportance- it is of course of importance that you are safe and secure and can speak-up.[16]

When we move from "Me to We"[17]- everything changes. And everything becomes so much simpler.

On the moment that we "let go" of our thoughts that energy resources be-gifted to a nation, region or taken by a corporation are "a sole owners proprietary and exploitation right"[18]- - , but rather start looking this as gift as an invitation to "serve and build sustainable societies- for humanity- **in essence helping to make energy a human right**[19]- our ways of making (energy business/ government/ political) decisions- changes.

On the moment we realize we are part of nature, and we have found peace, dignity and respect for the others and nature, we can attain true sustainability.

On the moment that we stop talking about Energy Security (for our country or region), but start talking about Energy Availability to All (or our neighbours)- we have moved beyond the ordinary into the extra-ordinary and more hopeful.

For those with "eyes to see"- they will understand that nurturing our societies and economies in balance with nature- is a rather urgent, pressing and balancing act.

In the East and in the West. In the North and in the South.

The speed and accelerations by which our societies and economies are presently galloping - including all new economic realities and needs, rivalries, craving for (unsustainable) consuming behaviours and thirst for modernities- are simply mind-boggling.

As such- we may be in need of some serious re-forms and transformations.

You only have to look at the figurative clover depicted in these notes- to understand that to guide (this more healthy and balancing act) is a major task and requires truly the unfolding of a new form and style of leadership.

A better tone of voice. In and between ourselves.

[16] China Medical News
[17] From self-interest or competition to shared interest and collaboration
[18] an opportunity to take an opportunistic position and make best rent for the self
[19] In own countries, regions and overseas countries of energy extraction and exploitation

Sometimes , and I joke here - the energy sector would grossly benefit if we could cross-breed Pope Francis with Jeffrey Sachs with a (energy) business (innovation) leader such as Carlos Ghosn (or e.g. PM Modi):

The simple truth is: We are all invited to join, and walk on this path.

Nation Building: End of Poverty- Creation of New Wealth and Jobs with Energy

In the under-developed and rapid developing world- the change challenge (or the "building" of sustainable societies) will require different programs and skills.[20]

Erik Solheim, a be-friended relation and good optimist, spoke most recently at an annual working conference of Norfund(The Foreign Aid Fund of Norway) [21].He always makes me smile at the (many) positive and enthused examples of "how things are being great and going right".

Erik's opening examples were the history and success stories of Singapore and South-Korea. In addition- and also looking with hindsight over his career- Erik concluded that sustainable development practitioners, governments and businesses now all agree: The idea that (main-stream) business cannot be part of the solution is simply passed .

In fact, and looking at the examples of Singapore and South-Korea (no matter the eco-footprint)- a simple observation can be made:

How to build a nation into prosperity?

Today - three (simple, core and) key ingredients are seen and needed for it's success:

1. Leadership (state/ authoritarian or more benign, inspired and democratic)

2. A vibrant Market--based economy

3. Education

The 'pact' that has being created in the Addis Ababa Finance for Development Conference (Ethiopia)[22] between big-banking (e.g. Sumitomo, Citibank), big-business and (UN) government officials is creating the conditions for private, and mainstream business finance into developing nations- such that this form of magic can be done.

[20] A good example of developing a roadmap for whole energy programs for the poor
[21] Norfund annual conference
[22] Addis Ababa outcome document

In other words:

Big Mainstream in a Big Sustainable Development Pact- with/from China/BRICS/NDB and also the West.

It is obviously important that we make the better decisions in these Big Mainstream interventions- and truly build the sustainable societies we want and are to last.

Over the course of this working conference day[23]- also some numbers were being shared. I like to quote some of these numbers here - so you get a little bit of a feel in what frame we are - today:

- The UN budget is 45 Bn USD every year; The role and function of the UN in our ever more complex world constellation cannot be over-estimated.
- The Foreign Direct Investment (Formal Aid) of all our countries to alleviate poverty is about 150 Bn USD per annum.
- The same (or a little bit less) is expected from the Finance for development/ Climate Change Negotiations.
- Overall- and in aggregate- the world invests 20,000 BnUSD (and growing) in mainstream infrastructure, energy, houses, manufacturing plants, etc. . Every year. Mainstream (Oil, Gas, Coal) Energy takes at least over 10-15 % of this sum.
- This size of the global economy is 100,000 Bn USD. and again : Mainstream (Oil, Gas, Coal) Energy takes at least 10-15 % of this sum.
- The world population is going to 9 Billion People- and with 190 million youth coming out of schools in Sub Sahara Africa- seeking for jobs- every year. The population of Sub-Sahara Africa expected to grow to 2 Billion by mid-century.

So- the observations can be:

How *tiny yet are our contributions* to keep our common house in order (peace, human dignity, conflict resolution, climate change, economic stability, sustainability, etc.) in relation to our ever growing main-stream businesses and economies.

How *tiny yet our voice* to seek a new balance in our ever growing ambitions in our economies, new wealth and power - versus the ways by which we - in aggregate- maintain our house in order- from a natural and sustainability perspective and humanity development (inter-relationship) point of view

[23] Norfund working conference

How *tiny yet the voice of the community leader* who embraces community-scaled development versus the mainstream (national and business) drive to build and export urban cities, large corporate businesses, infrastructure, etc.

It is refreshing to listen also to the words of e.g. a Mr. James Mwangi- the present CEO of Equity bank in Kenya[24]: Perhaps a good example of a community development scheme build from the ground-up, and enabling local people, starting local SME entreprises- helped by a community owned bank. Local - not Big Corporate. This bank started 20 years ago with a balance sheet of 300 USD and has now 3 Bn USD written in it's books. Similar line of thinking in and over Energy Architectures are very much relevant and applicable.

Sustainable Energy to All (Sustainable Development Goal Nr. 7)

First of all- we are to applaud the great work and achievements of the UN Agency – Sustainable Energy For All.

In their words and open invitation to us:

The Sustainable Development Goal 7 on Energy has been set; now it's time to show how to achieve it by 2030. A series of high-level Sustainable Energy for All events around the United Nations Summit (25-27 September) will discuss how to finance, implement and track progress on SDG7. Leaders of governments, businesses, civil society and international organizations are invited to join the thousands of SE4All partners who are already geared up to make sure the Energy SDG succeeds in the crucial years to come.

1. Financing and Tracking Progress of Sustainable Energy for All

2. Role of Partnerships in Achieving Sustainable Energy for All
(co-hosted by the Government of Denmark with SE4All)

3. Achieving Sustainable Development Goal 7 on Energy by 2030: Implementation of Sustainable Energy for All

A couple of simple insights and observations on the general nature of our "change challenge" here:

If you want to help or improve the World (On Energy & Sustainability) - Change Yourself (your company, your nation)[25]

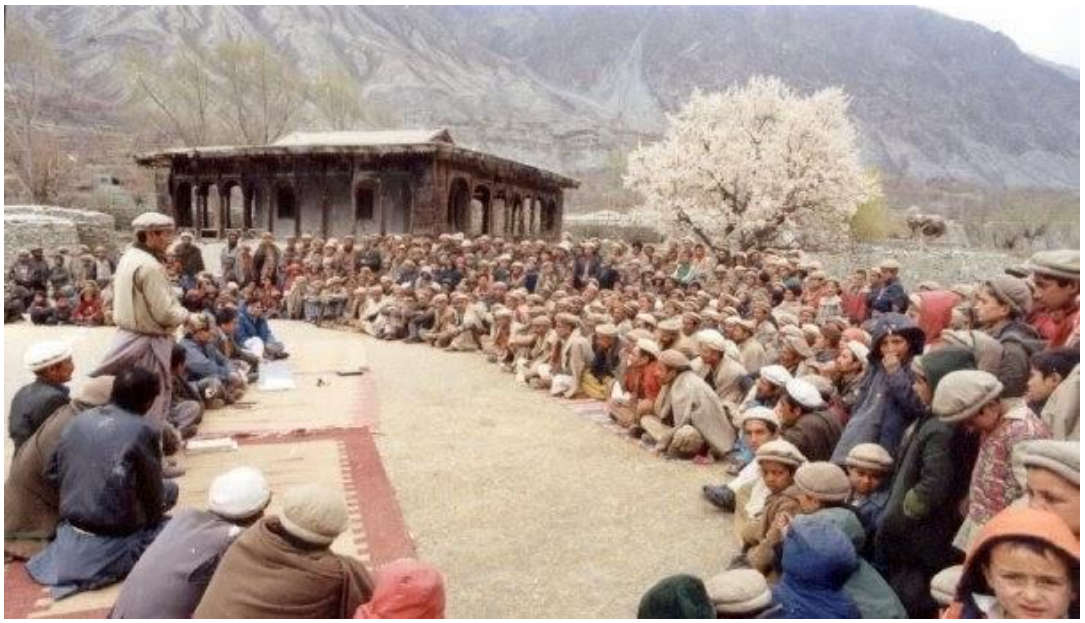
If you want to help the Poor- Change the Rich and the Elite.

[24] Kenya Equity Bank
[25] And stop finger-pointing to others, or put conditional conditions to your change.

Any intelligent fool can make things bigger, more complex, and more violent. It takes a touch of genius – and a lot of courage – to move in the opposite direction." – E.F. Schumacher

It was Kandeh Yumkella- the United Nations Under-Secretary-General and the Special Representative of the Secretary-General for Sustainable Energy for All- who once said:

Giving power (energy) to the poor and deprived- without giving them the means and ways to improve their own lives and incomes (in the ways sustainable and bespoke to themselves) - is not aid or help but is actually extending or increasing the (local) suffering.



So- in our mind- the role and responsibilities for the people and professional organisations who want and like to participate in the "UN energy for All" program and initiatives are to have "eyes and ears"- a kind of **sixth sense** and **discernment** - of *how* to lift people out of poverty- and *how* to put power, human dignity and economic possibility (and responsibility) in the hands of those left behind.

A Good Example of how to roadmap this and to give Energy to the Poor- and in our minds- can be found in the recent work of Practical Action Organization:

Go to publication

This form of approach helps to create the *local communities* who can (again) thrive in well-being without being enslaved by obligations of payments or commitments to new roles or tasks (jobs) which does not serve their own lives or community but those who seek rent from cheap labour.

Community and environment *are to drive* Economy- and - not the other way around.

If you want to read some other opinions on this- I suggest you read some of the words of

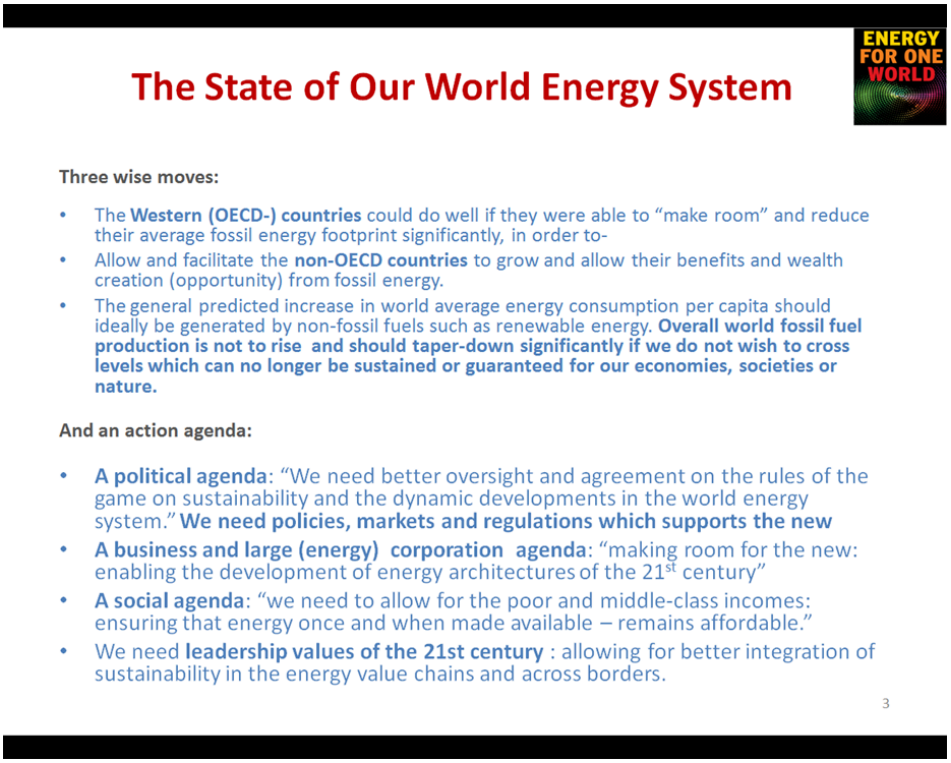
Fayyaz- a Pakistani Professor and ex- UNDP official and May East - an UNITAR Senior Education official:

How to build sustainable societies
Eliminating poverty in two simple steps
May East report on Brasil

In May's words:

We are taking a different route from the traditional concepts of growth and progress. In our strategy, community and environment drive the economy, not the other way round."
(my note: *and of course- if good entertainment and a TV sets belongs to all this- let it be!)*

Without going into much details-but overall, and in the aggregate of our world energy system - we have written the earlier observations of what we may consider the *better* paths in and over our decision making over coming decades:



A bit of theory: Energy & Energy Architecture development (continued from last years' conversation)

Stewardship over the Energy Architecture[1] in a global-, local- and corporate setting is a new and urgent business leadership role to learn .

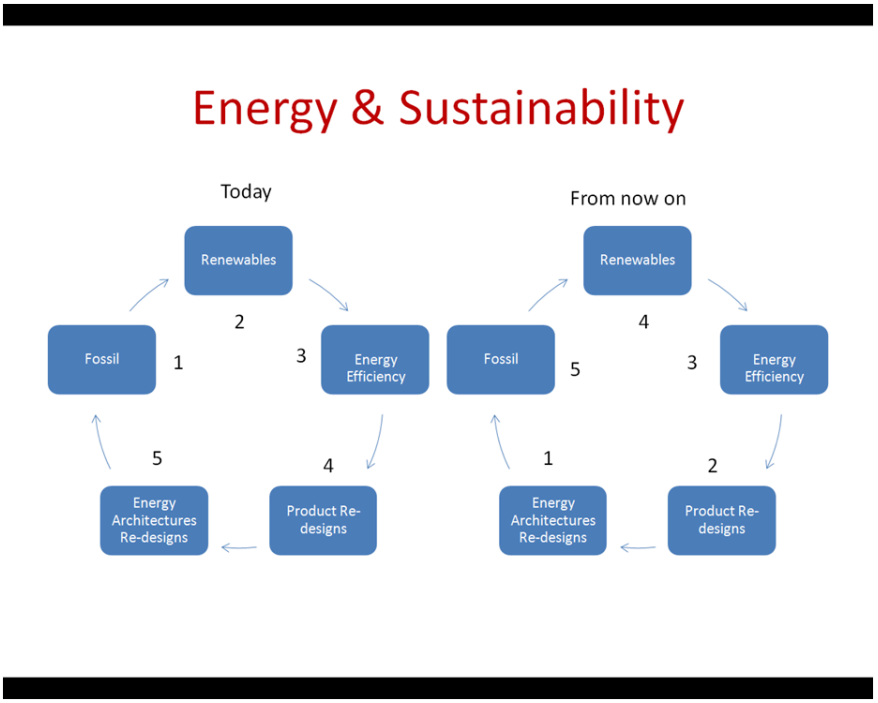
It's this learning of this **Stewardship (role) over the Energy Architecture** that's where our key focus of attention is: and where we focus our client programmes and interventions on.

In **the Energy Architecture**- we both include the soft- as well as the hard- factors shaping the constellation:

Thus the (technical) ways by which energy is brought from well to wheel or turbine to home- but also the organisational constitution in and between the actors and the market and business models functioning in the constellation.

A good, healthy and fresh **vision** on the new blueprints of our shared "Energy Architectures" and a good and fresh vision on our (individual) role(s) in these energy architecture developments, will help us to accelerate and diffuse the better blueprints and practices- and is a great contributing factor determining if we are to thrive over next decades, or whether we are go-ing to get ourselves into trouble.[26]

To frame it quite simplified- the following may be- what we may consider:



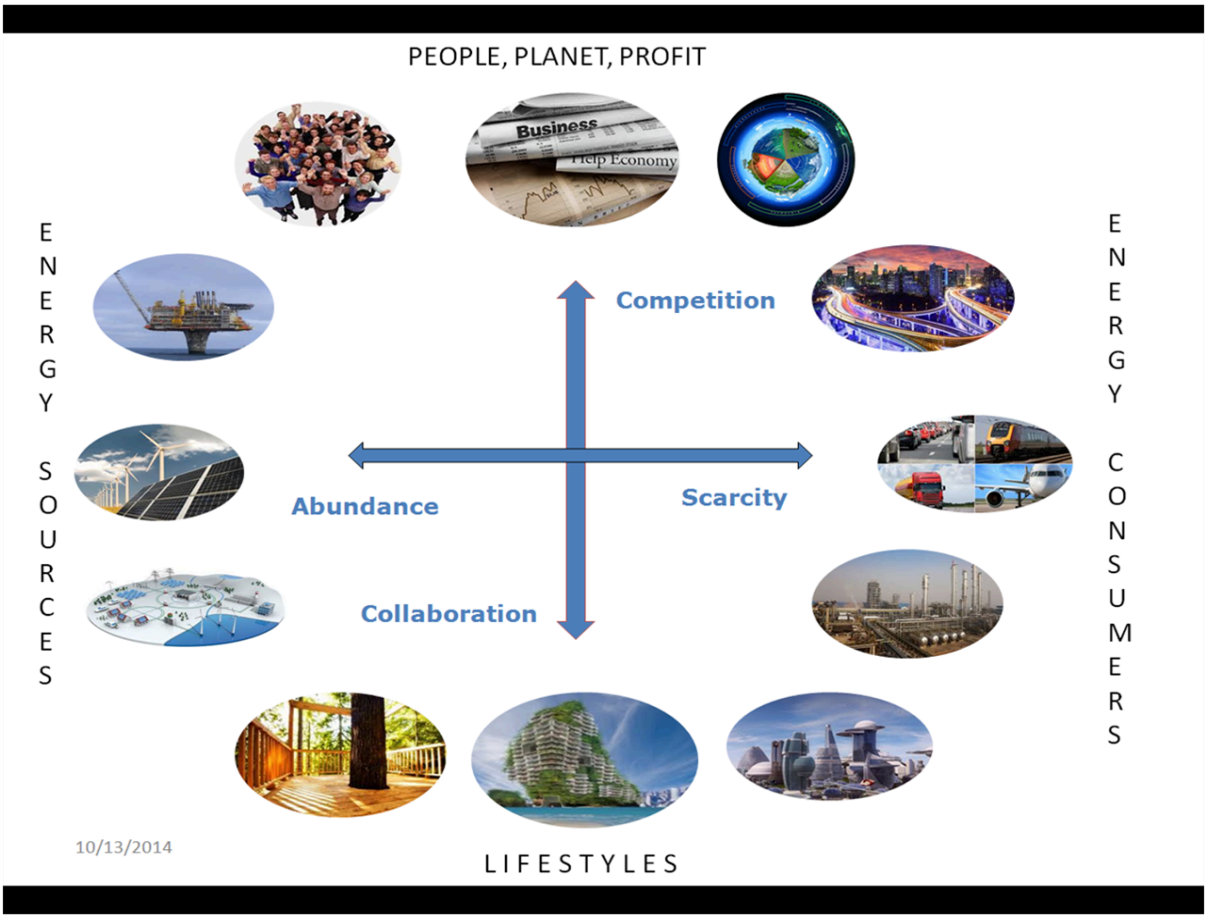
[26] Energy scarcities or unsustainabilities.

In the past, and still very much today- the energy sector is and was much supply-side orientated.

With the upstream (coal,) oil and gas sitting on top-of-the-value chain, and making and attracting the largest talent, capital investment and government income- they *are* and were de-facto determining the markets and the game we are in. Oil & Gas ruled. The Fossil Fuel industry the un-contested leader of the pack - and the rest was following

Nevertheless and over the last decades, each of the "other" elements in the energy value chains - from re-designing our homes and cars (Product- Redesigns) towards energy architectures re-designs[27] (Energywende and E-on in Germany , Denmark), Sun and Wind, etc. - have demonstrated their potential.

So- the *change* challenge we face today, and in order to *serve* sustainability, our economies and our societies- is to change challenge and question our mainstream energy industry habits, our mind-sets, our (energy) business development and project framings:



In our near future, we may best come to grasp with a new frame of "Energy Architecture" in the energy sector-

[27] Germany's energy architecture and grid development

A frame based on (at least) **12-dimensions**.

- **People & Societies, Economy, Planetary Boundaries**, Conventional Oil, Coal and Gas, Renewables- Sun, wind and bio,

- **Local, smart, de-central and distributed energy networks, including roll-out of energy efficiencies**

- **Our choice over lifestyles**: **Eco-conscious lifestyle-** such as we can find in the Eco-villages in the west and in e.g. the rural communities of Africa and Asia, but also the **Cities or Sustainable Cities Lifestyles.** And we see a lifestyle connected with **High-Technology Advancement**: A World Future Vision based on Science Fiction, but now also more and more supported by some key research institutes: our science and technology is going to help us to create a complete new world order based on AI and perhaps abundance.

And last but not least

- **the 3 key consuming dimensions** of **energy**

  Cities – and/or Sustainable Cities with energy-plus/ zero-carbon sustainable housing designs (including better materials)

  Transportation – in the air, on the water and on the road

  Industry- a selection and range of petro-chemical industry, agri-culture, etc.- now more and more in competition with nano-technology, miniaturization, 3D-printing, new material science based on AI/big computing.

In other words:-

So- *developing and investing in* an (national/ local) energy architecture becomes a little bit more than only *investing or developing* a point-solution, or the supply side, be it the oil, gas and coal side of the equation.

Investing in an Energy Architecture now becomes **a 12-dimensional frame**, and whereby the stewards and stakeholders carefully review the best places to invest (or change) their time, money and resources in – in the community- and in order to achieve the best possible impact and sustainable conditions for the relevant economies and societies – not only for the short-term, but for the years to come. And not only for the own location- but also taking the needs and demands of others and elsewhere in considerations.

This new balance in investment and development in and over an Energy architecture- asks (government and business boardrooms) to change focus from a sole supply-sided focus (traditional) or business-to-business towards a much more balanced approach including into the realms of Economy, LifeStyle and the construct of sustainable houses and cities.

And in this world of And-And - the players in the energy architecture value chain sit (willingly) around the table, to better share and i*ntegrate their* investment and development portfolio's towards the best viable and sustainable energy architecture development concepts and solutions. [28]For the whole.

Not only a private business matter, not only a pure-state or free market play, not a play of state and governance. **It is truly a new public-private compact**.

And that is a little bit different game than the traditional games that are being played in the silo's of the established large-scale energy and utility corporates – today- be it in state hands or in public listed company firms.

So :

Our today and tomorrow's energy landscape asks and invites us actually to re-invent ourselves and to become a little bit more imaginative in our working approaches and business collaborations in order to empower our societies and sustain our near future.

The new role of the Energy Sector and Energy Professional envisioned is to become the new stewards, the new orchestra leaders- over these 12 dimensions.

The way this (actually) works ("what the top essential needs are" and "big improvement and change drivers are") are different in Rwanda, Ghana and Nigeria- are different in Argentine, Mexico or Brazil, US or Europe, Pakistan, India or Bangladesh than Saudi Arabia, Emirates or Egypt, Turkey or Indonesia, Vietnam and China.

That we know.

This form of Stewardship over the (Integrated) Energy Architecture is not only a new balancing act between Economy, Society, Sustainability, Technology and our International relationships (on location, in the region).- but also asks us to rapidly adapt a better tone of voice and method of collaboration across the energy value chain of our leading energy corporations.

[28] Examples of where this process has been done are e.g. the EnergyWende of Germany or some of the smart Cities built in China and now also India

Energy & Sustainable Development: The realization of a new global compact on Energy Archtiecture Development . Four practice examples and an open invitation- for your use and guidance.

(UN SDSN) Centre of Excellence on Energy and Energy Architecture Development

We have the unique opportunity to create and grow a neutral and independent

- multi-national
- multi-party

organisation "for and by" business which can serve and aid the international energy sector to serve and build truly sustainable energy architectures – globally.

This Centre of Excellence is and can:

- Raise business capabilities and capacities for building energy architectures of the 21st century: supporting the rise and development of global vibrant sustainable societies.
- Aid Energy Executives a new balancing act- and to raise a shared vision, awareness and stewardship over the new needs and possibilities in the energy architecture.
- Assist in the creation, evaluation, oversight or mediation of multi-lateral energy working programs- crossing borders, crossing sectors, and crossing working interests.
- Produce and assist in the creation of new "forms and formats" benefitting the global energy industry.

This centre could ideally be positioned to work and function between and with the IEA, OPEC, IEF, WEF and WEC.

The simple idea being:

What if we bring some of the best and brightest together on:

- Global Change
- Sustainable Development
- Energy & Energy Architecture/Transition Management
- Conscious Leadership
- Organisational Leadership for Change :

What would or could happen?

Could we create the form and forms which can rapidly generate 'new coalitions of the willing' – who could amplify projects and efforts?

What if we would create this Centre of Excellence as part of the UN SDSN outgoing programs, projects and outreach- and in essence – be the quarter-maker for a possible UN Energy and Sustainable Development Organisation?

Open conversations on Energy & Sustainable Development (Education & Outreach)

(Executive Energy) Education and Outreach

This open conversation/lecture series helps leaders and leadership teams to reflect on their role(s)- to build the value case for business and change (on location, and in their established constituency) , and to see clear and attractive opportunity pathways forwards, whilst also helping to progress their position and relationships towards their organisation, the stakeholder community, the wider world and themselves.

This new-styled series is fresh and specifically launched in the year 2015- to help the energy professionals, knowledge partners and decision makers to partner and operate in a responsible and responsive way across to the energy value chains: delivering energy architectures and energy projects befit to the 21st century.

This Open Conversation Series has become available (also as a 2-day working event) within the Global UN SDSN/ MDP/ ICSDP outreach and curriculum.

Please visit the slideshare presentation to get a first impression

Performance Platforms

The Energy For One World practice is available to create with you small, neutral, and independent dream-teams with expertise from industry, academia and around the globe[1]- and which can “accelerate, diffuse, support and help” the major project and energy transition projects (smart cities, O&G/energy architecture, utilities, infrastructure) in an energy-architecture, both in your company as well in your country .

In our frame and realization – we will seek with you the relevant business, academic and administrative partners- the dream-team so to speak- which can help you in your journey.

A contribution to the Sustainable Development/ Sustainable Energy agenda, supporting

1. Smart Cities,
2. O&G/ Energy Architecture developments
3. Utilities and energy distribution
4. Infrastructure

Our *small, elite integrated* dream-teams help there where relevant- to analyse, design, develop, change, implement or evaluate the systems, purposes, means, solutions and pathways “for stepping-up” in and between (international) business and (local) practices and needs. We combine this with a hands-on investment advise arm.

Please visit a pro-forma description of these platforms

Coaching and Advise

Leadership over Energy corporations, today- be it in Coal, Oil & Gas, Utility, Renewables, Distribution or Energy Support firms – requires a new balancing act: attuning "corporate strategies, business innovation and organizational forms and formats" with that of the " dynamic context change" they are in.

Leaders are requested to re-balance established business beliefs and performances with the new (societal) needs or demands "seen or experienced" in the economy, society or nature.

We are organised to help leaders and organisations in their process of strategy, execution, organisation and change.

Energy For One World- Team and Beyond Borders

***"Every Energy Company** and **Every Energy Architecture** in this world **can be improved upon** in order to raise the **availability, affordability** and **sustainability** of **energy to all"**.- Adriaan Kamp, 2015*

Year 2015 is a Pivot Year in Energy Land. First of all, and at the end of 2015, we will experience the results of years' of climate change negotiations in Paris.

Secondly, and in September of 2015, the UN is to agree and embark on a ground-breaking program of capacity and capability building in the realms of Sustainable Development.

In both programs- Energy and the Energy Sector are crucial and vital element for its' success. Stewardship over the Energy Architecture[1] in a global-, local- and corporate setting is a new and urgent business leadership role to learn.

Our practice focus is simply helping our customers to integrate the UN sustainable development agenda into the energy and energy architecture developments.

As no other- we understand that every Nation and every company has his own history, culture and natural needs for progression.

Stewardship over the energy architecture is hence a new balancing act between Economy, Society, Technology, Sustainability and our International relationships.

In September 2014, and at the UN SDSN/ICSDP conference in New York- Adriaan Kamp, Founder of Energy For One World tabled and presented his proposal and plans for a fresh, hopeful and new-styled global outreach (education/ workshops) program which deeply connects with the post-2015 Sustainable Development Goals and the deep de-carbonization project and is to help and assist with the directional change and agenda.

Ref. New roles for business in the sustainable development agenda- UN SDSN…

In February 2015- and in a follow-up, and on invitation of Dublin Trinity College, Kamp presented a first module in a class of MDP students.

The results of these forms of (open conversations and) engagements, and the (early) EFOW practice consulting engagements in countries as wide and diverse as Netherlands, Germany, Norway, NW-Europe, Turkey, India, Nigeria, Pakistan, Argentine, are also included in this paper.

Helping our customers to do this- we combine and unlock some of the best academic[29], business leadership and industry capabilities around, and make this available to you in consultancy, business-matchmaking, project development, education and finance.

We recognize as no other that "Our Tone of Voice" matters if we want to progress and advance our own interests, whilst also taking care of the whole[30].

We are proud to announce **Three Practice Services** specifically focused on better integrating the UN Sustainable Development goals into the Mainstream Energy Sector:

Executive Energy Education and Outreach

Coaching and Advise

Performance Platforms

with special thanks the expanded EFOW team, support, partners, peers and customers , the Eneco Group (Utility Group in the Netherlands) Rajesh Mehta (India), Mauricio Dardain (Argentine) , Kenny Adesodun (Nigeria), Shaz Bilal (Pakistan, Ana Marques (Brazil) , Piet Klop (Senior Partner in Big-4 accountancy firm, Netherlands), Henk Koopmans (Netherlands), Bert Stuij (VP Energy Transition Manager, Dutch Government, Netherlands) , Nanne Bakker (Program Manager EDI/ Gas Institute, Netherlands) , Diederik Slob (Nyenrode Business University) , Prof. Atle Midttun (Oslo BI, Norway),), Robin Waaler (Norway) , Miguel Dias (Founder CEO World, Portugal), Frauke Diedrich (Student, Germany), Ahmad Reza Mir Mohammadi (Senior Researcher, Iran), Ass. Prof.. .Susan Murphy (Trinity College, Ireland), May East (UNITAR), Prof Fayyaz (Pakistan), Marc van Baal (Energy Journalist, Netherlands) , Karel Beckman (The Netherlands, Founder Energy

[29] See separate folder on EFOW organizational cluster and partners
[30] In complex multi-stakeholder arrangements, but also : our Common Home (re. Pope Francis).

Post), Prof Guus Berkhout (Delphi Foundation), and all other working peers and numerous colleagues in academia, business and government administration.

Only Good can come from Good

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