

RGI ANNUAL REPORT 2016



Renewables 
Grid Initiative



About RGI

The Renewables Grid Initiative is a unique collaboration of environmental NGOs and transmission system operators from across Europe. We promote transparent, environmentally sensitive grid development to enable the further steady growth of renewable energy and the energy transition.

More information:
www.renewables-grid.eu

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The Renewables Grid Initiative e.V.
Krausenstraße 8 – 10117 Berlin – Germany

WINNING PUBLIC SUPPORT



Dear readers,

2016 has been full of surprises, many of them complex and with potentially far-reaching consequences. The trend towards nationalistic and populist sentiments is a widespread phenomenon. We have been surprised by the Brexit, by the result of US elections and by other political events across Europe. At a moment when we need more Europe, many seem to be ready to disregard it.

Thankfully, it is not all bad news. On the positive side, 2016 has seen large investments in renewable energy and the electricity sector is learning to better integrate renewables thus enabling the energy transition as well as the utilisation of local resources. New ownership structures are being experimented with, big efforts are put into improving electricity markets and, finally, citizens and consumers are considered in new energy policies. All of this can provide a new opportunity for Europe and its citizens. Energy can and should become a new engine for inclusion; a bridge that connects the big visions developed at European level with the very basic and legitimate needs of local populations.

Power lines provide us with an incredible opportunity to reconnect policies with people's needs and wants. To enable this and to lessen the reasons for often still fierce public opposition, we need to better convey the opportunities inherent in an enhanced grid infrastructure. I am very proud of what RGI and its partners have learned in this regard in the past years and hope that we can systematically design and carry out more robust, transparent and efficient stakeholder engagement processes. These should

contribute to the development and utilisation of local resources while also providing the backbone for these resources to be optimised at a reasonable and affordable cost for all users.

In this report, you will read about RGI's work in 2016 and our effort to bring together innovators who are redefining the way we think about grids and the opportunities connected to them. At our 6th European Grid Conference, for example, RGI discussed the social dimension of grid investment including co-ownership with the US based Citizens Energy Corporation, who invests in the build-up of urgently needed new grids and dedicates 50 per cent of the profits generated into charitable energy assistance programmes helping low-income residents. We want to have the same possibility in Europe and need political support to move ahead.

As usual, RGI looks to the future optimistically, confident that, if we understand that collaboration is more important than ever, we have the ability to find the solutions needed to address the many challenges of our time. RGI will continue to push for policies that respect and support individuals' energy preferences. Local development and local success will ultimately fulfil the European dream and not the other way around. Looking forward, my hope is thus that 2017 will deliver clarity and regulatory recognition for public engagement and environmental protection measures, which also play an essential role in the acceptance of new infrastructure.

We will keep being committed and know that we have strong partners by our side. Thanks to all of them for the steps we have jointly taken in 2016. I am convinced that our collaboration will be increasingly relevant and fruitful in the future.

Sincerely,

Antonella Battaglini,
CEO Renewables Grid Initiative



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OUR MAIN ACHIEVEMENTS 2016

Grid needs to integrate renewables

- Structured work on the need for grids initiated. Officially kicked-off at the internal RGI workshop on future scenarios with studies presented by 50Hertz and Swissgrid. Special attention was paid to those scenarios that included ambitious renewables generation targets (>80%). More on page 8.

Best practice implementation and knowledge exchanges

- The 'Good Practice of the Year' award competition received 19 applications from Europe and beyond (USA, Kenya and Chile).
- Three winning cases of the 'Good Practice of the Year' were awarded at the Energy Infrastructure Forum in Copenhagen. The keynote was held by Energy Commissioner Miguel Arias Cañete. More on page 12.
- In September, ten delegates joined the second tour of the 'Energy Regions in Transition' programme to New York City and California. The one-week programme included meetings with policymakers, grid operators, utilities emerging businesses and NGOs. More on page 14.

Advocacy work

- RGI received official observer status of the International Renewable Energy Agency (IRENA).
- RGI and its partners met with Vice-President of the European Commission, Maroš Šefčovič. Topics discussed included digitalisation, public acceptance, Projects of Common Interest, market design.

- A Memorandum of Understanding was signed between RGI and ENTSO-E to work more closely together to promote a responsible reinforcement of the power grid that is needed to achieve Europe's climate and energy targets.
- Director-General for Energy Dominique Rostori appointed Antonella Battaglini to the EU Commission's expert group on the electricity interconnection target.
- More about our advocacy work on page 16.

Communication and events

- RGI's first Annual Report was published.
- RGI launched its newly designed website and three new social media channels (Twitter, LinkedIn, Instagram) at its office warming party. More on our social media activities on page 17.
- RGI co-organised three sessions during the European Sustainable Energy Week's Policy Conference in Brussels together with DG Energy.
- RGI published the brochure 'Community Payments – Case Studies from across Europe', showcasing different practices from Germany, Ireland, France, Italy and Scotland.
- The 6th European Grid Conference took place in September with keynotes from Vice-President Maroš Šefčovič and Joseph P. Kennedy II, founder of the Citizens Energy Corporation, and speeches from ENTSO-E's Secretary-General Konstantin Staschus and Director-General for Energy, Dominique Rostori.
- More about our events on page 9.

Interna

- RGI welcomed two TSO new partners in 2016: German Amprion and Irish EirGrid.
- As part of the renewal of the European Climate Foundation (ECF)/Stiftung Mercator grant, URSUS consultants evaluated RGI very positively and testified to a great and ongoing need for RGI's work in the coming years. As a result, ECF and Stiftung Mercator renewed the grant agreement for another 2.5 years.



NEED FOR GRIDS

Full clarity on the need for grids in the electricity system to integrate an increasing share of RES

In 2016, a new RGI work package on “Full clarity on the need for grids in the electricity system to integrate an increasing share of RES” was formed to address RGI’s first Strategic Objective, which reads: “[...]develop a comprehensive narrative which resonates with and is supported by its own partners and other external stakeholders and is communicated to all relevant European and national institutions.” This work consequently looks to develop a joint narrative on why large amounts of renewables need grids to be integrated into the European electricity system, and to communicate this need consistently and effectively.

RGI started by setting up a process to collect and share information about a set of “Future Scenario” studies that are currently being modelled by TSOs and others. This process looks to organise a number of workshops at which modelling experts present their studies to a mixed group of TSOs, NGOs, academics and independent research institutions. The ambition of such an exchange is threefold:

1. to increase the joint understanding of how different scenario and modelling assumptions impact future grid needs and through this enhance the technical capacity of NGOs to engage on the matter;
2. to positively inform the TSOs’ future modelling exercises by making the expectations of stakeholders on future modelling more explicit and
3. to derive joint communication messages about grid needs to integrate an increasing shares of renewables.

The first of these events was held on July 8th, with 50Hertz presenting their “Energiewende Outlook 2035” study and Swissgrid their “Strategic Grid 2025”. Feedback received on the event was very positive, with a number of draft key messages resulting from the discussion, ranging from the importance of cross-border interconnectors to the eco-

nomic viability of even the most ambitious green scenarios. RGI will continue its work into 2017 with the organisation of more “Future Scenario” workshops. The collation of pro/contra arguments for new grid infrastructure has also been initiated to assist in the development of a powerful set of accurate and positive messages on the need for grids.

Beyond this work RGI has been active at the European level in cooperating with ENTSO-e and the European Commission in the area of grid needs. We hosted a set of productive meetings with NGOs and ENTSO-E throughout the summer where NGOs gave valuable input to the creation of ENTSO-E’s TYNDP 2018 storylines.



RGI EVENTS IN 2016

Building room for an exchange of experiences

Events have always been at the core of RGI's activities. We like to bring people together, build room for the personal exchange of ideas, thoughts and experiences, and jointly work on new approaches with different stakeholders.

In 2016, our events were organised in the spirit of collaboration. We teamed up with several organisations, such as the European Commission and the International Renewable Energy Agency (IRENA).

With its first Innovation Week on "The Age of Renewable Power" in Bonn in May, IRENA provided an innovation mapping exercise for the power sector, and explored the complex relationships among different kinds of innovation and how they depend on policy. 238 participants from 41 countries attended the three-day conference. RGI moderated both a deep dive session on new market designs and a plenary session on "systemic innovation".

Together with DG Energy, RGI also organised three sessions at the EUSEW in June. While all three sessions dealt with grids, the first one started off with a more global view on "The future of the power system: technology scenarios and electricity infrastructure requirements", the second continued with a closer look at "European grids: benefits and challenges", and the third rounded off the day with a more local view on "Implementing grid infrastructure: best practices on stakeholder dialogue".

Another example of a similarly fruitful collaboration with the European Commission was our 'Good Practice of the Year' award ceremony at last year's Energy Infrastructure Forum. For more information, please refer to page 12.

One of the big highlights in 2016 was once more the European Grid Conference, this time in its sixth edition. We looked across the pond again and invited the non-profit company Citizens Energy to shed light on their approach to social investments in grid infrastructure projects. Both their founder and



President, Joseph P. Kennedy II, and their CEO Pete Smith explained their model on using the return of grid investments for charitable projects, such as the "Solar Homes Program" that equips low-income households with rooftop solar collectors. Further distinguished speakers of the conference included Vice-President of the European Commission, Maroš Šefčovič, Director-General for Energy, Dominique Ristori, and Secretary-General of ENTSO-E, Konstantin Staschus.

Finally, in 2016, we started to organise informal brown bag lunches on a regular basis. Speakers included the CEO of the California ISO, Steve Berberich, Christian Redl from the think tank Agora Energiewende, and Sven Teske, Research Principal at the University of Technology in Sydney. As with our other events, we aim at bringing people with different backgrounds together to learn from each other. We understand our office as a learning, meeting and networking space and are happy to host many similar events in the coming year.

INSPIRE-GRID

Multidisciplinary project on stakeholder engagement successfully concluded



For the past three and a half years, RGI has been part of the project INSPIRE-Grid, which was funded under the 7th European Research Framework Programme (FP7). It brought together a very diverse group of experts from different fields. The international team included scientists from various disciplines (engineering, social science, psychology), and practitioners from TSOs. While this set-up was equally challenging and rewarding, it led to a number of very valuable, science-based recommendations for different actors involved in grid development projects, which are available in different formats on the INSPIRE-Grid website (www.inspire-grid.eu):

- Synthesis and recommendations: report that summarises the main findings and recommendations of the project in a detailed way;
- Brochure: gives an overview of different project activities for a non-technical audience;
- Policy briefs: main recommendations of the project for TSOs, authorities and policymakers in a condensed format.

During the project's lifespan, the consortium worked on eight different work packages: at the beginning, the German research institute IZES took a close look at different stakeholder groups that

Project structure

WP1	Project management
WP2	Stakeholder concerns and needs
WP3	State of the art and critical review
WP4	Methodologies for the assessment and comparison of grid infrastructures
WP8	Communication/Dissemination

WP = work package

Project partners included:

- RTE
- ETH Zürich
- Poliedra
- Armines
- PIK
- Renewables Grid Initiative
- IZES
- Statnett
- National Grid



are normally involved in grid development projects - from citizens to environmental groups, farmers or planning authorities. At the end, they came up with a stakeholder map that captures their main findings (an interactive version can be accessed on the INSPIRE-Grid website). Also during this early project phase, social scientists from ETH Zurich analysed existing best practices regarding public participation and stakeholder engagement in both electricity infrastructure projects and projects of other industries. And, finally, researchers from Italian institutes Poliedra and RSE looked at methodologies to support the decision-making during grid projects, namely Multi-Criteria Analysis (MCA) and Web-based Geographic Information Systems (Web GIS), while French-based Armines developed an approach that uses the Life-Cycle Assessment (LCA) in order to evaluate the full environmental impacts and benefits of new power lines.

In a second project phase, researchers collaborated closely with the two TSOs Statnett and RTE and went out into the field to collect data in three different case studies - Bamble-Rød, Aurland-Sogndal (both in Norway) and Cergy-Persan (France). Social scientists from PIK (Germany) and engineers from Poliedra jointly conducted interviews and tested assumptions on MCA, Web GIS and LCA. In the end, researchers from ETH Zurich validated the conclusions drawn in the other work packages with the help of different workshops: one with staff from the British TSO National Grid and one with stakeholders that were previously involved in a grid development project in Southern Germany. RGI was strongly involved in the communication of the project and the dissemination of its results. This was done via various stakeholder workshops, the publication of easy-to-read material and the organisation of the final conference that took place in Brussels in January 2017.



“GOOD PRACTICE OF THE YEAR”

Practices on flexibility, marine ecosystem protection and landowner involvement win trophies in 2016



2016 marked the third year that RGI awarded prizes for the 'Good Practice of the Year'. The award shall reward those who make a positive difference in grid development. This difference can be new approaches to integrate stakeholders in the planning and development process, innovative forms of citizen dialogues, new communication tools or compensation measures, innovative thinking in technology and design, or outstanding practices in nature and biodiversity protection. We are always looking for success stories from all areas of the grid development process. Our ambition is to give them a platform through which they can reach new audiences and thus hopefully receive the acclaim they deserve. In the best case, they also find peers from across Europe who want to replicate or even further advance the practice in their regions.

Since its inauguration in 2014, the 'Good Practice of the Year' competition has matured quickly and is now a regular part of the 'Energy Infrastructure Forum' hosted by the European Commission and the Danish Ministry of Energy, Utilities and Climate. In 2016, RGI and high-level representatives from EU institutions, TSOs and other stakeholders celebrated the winning practices from Italy, Denmark and Germany in the beautiful halls of Moltkes Palæ in



Copenhagen. Awards were given out in the three categories 'Technology & Design', 'Environmental Protection' and 'Communication & Participation'.

RGI's CEO Antonella Battaglini moderated the ceremony, while Catharina Sikow-Magny (Head of Unit B 1 at DG Energy) presented the winners with their trophies on behalf of the jury. The first award of the evening, for 'Technology & Design', went to Next Kraftwerke for their 'Virtual Power Plant Next Pool', an undertaking that uses cloud-computing technology and decentralised generators to combine the flexibility of both power producers and consumers

EAR” AWARD

into a single virtual power plant. It won its category because the jury saw it as an immense asset in the transformation of the power grid: both supply and demand flexibility will be increasingly necessary to accommodate fast ramping periods and to address corresponding supply forecast errors.

Italian grid operator Terna received the award in the ‘Environmental Protection’ category for innovative technological solutions adopted in laying undersea cables for the electrical interconnection between Italy and Malta. The newly developed approaches helped to significantly reduce the impact of the project on the ecosystem and seabeds of the Mediterranean, in particular protecting *Posidonia Oceanica*, a sea grass giving shelter to numerous marine species and protecting the coast from erosion.

As the ‘Communication & Participation’ winner, the jury chose a project that perfectly shows how important it is to utilise local knowledge and engage with stakeholders when building new grids. Danish grid operator Energinet.dk involved landowners in the corridor planning in a simple but innovative way: relevant landowners were asked to explore grid location concerns in group discussions, using a map and a string. It is an easily replicable showcase for meaningful stakeholder involvement in potentially challenging and controversial projects and has been very positively evaluated by the citizens involved.

We are very proud of the amazing practices our winners implemented as well as the other great practices that were entered into the competition and thank our incredible jury of experts who donated their time and knowledge to select the very best applications. We also thank the international audit and advisory company MAZARS for once again accompanying the evaluation process in a most helpful and accomplished way.



“ENERGY REGIONS IN TRANSITION”

RGI and European energy experts journey to NYC and California



In 2016, RGI brought a delegation of European energy experts to the United States for the second time. They visited the energy transition frontrunner states New York and California to meet professionals from the other side of the pond and talk about best practices in improving the reliability of renewables-based electricity systems, reducing costs and improving regional cooperation – among many others.

The tour included meetings with leading environmental groups, such as The Nature Conservancy, the Environmental Defence Fund (EDF) and the Center for Energy Efficiency and Renewable Technologies (CEERT); visits to the NYC office of Bloomberg New Energy Finance and the Tesla factory in Silicon Valley; and discussions with main decision-making bodies, such as the New York Public Service



Commission and the California Public Utilities Commission, utilities ConEdison and PG&E and grid operators National Grid and California ISO.

New York and California were chosen as destinations because both states have set ambitious targets for the expansion of renewables, the reduction of CO2 emissions and energy efficiency by 2030. It became clear very soon during the trip that Europe and the US, while facing many common challenges such as acceptability of new grids, have set some different focal points in their approaches to the energy transition. The quick development and roll out of storage solutions plays a much bigger role in the American discussion. In addition, the US has started to take a lot of action with regard to enabling prosumers, e.g. creating IT platforms and promoting demand side solutions. As a result, new business models, for example surrounding microgrid solutions, have quickly evolved in the past years. Experiencing first hand which effects different regulatory frameworks can have in helping the energy transition reach new heights was a big takeaway from this journey.



RGI's CEO Antonella Battaglini affirms the importance of such learnings, saying: "Our energy system is currently going through fundamental changes. Since we are all entering new territory, it is all the more important that frontrunners constantly exchange knowledge and share experiences to learn from each other. Our continuous work with successful energy regions in transition supports pioneers and shows that change is possible and already happening."

RGI has been in regular dialogue with American energy professionals since 2013 and has organised a first tour to California under the banner of 'Energy Regions in Transition' in 2015. We strongly believe that this sort of mutual exchange is a fundamental contribution to a comprehensive global learning exercise with the objective of improving reliability, reducing costs and limiting the environmental impacts during the energy transition. Our goal of such an exchange is for many of the energy transition's most involved players to look beyond their own horizon with respect to technical, financial, regulatory and societal solutions and to deepen their understanding of the transferability of solutions to and from other regional contexts.



ADVOCACY ACTIVITIES

Bringing our messages and spirit of collaboration to Brussels and beyond



In 2016, RGI has been able to further increase its presence with relevant institutions in Brussels and we can see that the collaboration is valued on a variety of levels. Examples of such fruitful relationships in 2016 included bilateral meetings, contributions to RGI events, or RGI input to procedures and consultations.

We are very happy about the opportunities to meet with Director-General Dominique Ristori and Vice-President Maroš Šefčovič early in the year, in order to discuss, amongst others, current market design debates, grid tariffs, public acceptance and PCIs. Following the kind request of Mr. Šefčovič, more detailed input from RGI on these topics was also delivered in written form.

Moreover, we were honoured by Miguel Arias Cañete holding the keynote speech for our 'Good Practice of the Year' award ceremony at the European Energy Infrastructure Forum. On top of this, the Commission confirmed that they want the award to become a regular element of the event. And, finally, Dominique Ristori, Maroš Šefčovič and Secretary-General of ENTSO-E, Konstantin Staschus, all gave valuable input at the 6th European Grid Conference in September.

In the second half of 2016, the Commission initiated a new process to identify PCIs that intends to be more transparent and thereby also more legiti-



mate. RGI has long been promoting that both the TYNDP and PCI processes need revision if they shall become more useful tools to drive the needed European grid infrastructure development forward. Evidently, we have achieved full political awareness about the role of grids and the difficulties with public opposition by now, but there is also an increasing understanding that public support can only be obtained if proper processes are put in place.

In August, it was revealed that Antonella Battaglini was one of the few experts being appointed to the 15% interconnection target expert group, which the Commission established in the course of 2016 to review the methodology that determines how interconnection targets are calculated.

And, finally, RGI has been a member of the ENTSO-E Network Development Stakeholder Group for several years and a closer exchange between ENTSO-E and NGOs has been established to increase the joint understanding of transparency and further development needs of the TYNDP. In May, ENTSO-E and RGI signed a Memorandum of Understanding formalising our joint ambition to work closely together in promoting a responsible reinforcement of the power grid needed to achieve Europe's climate and energy targets. We are looking forward to jointly realising the principles laid out in the MoU in the coming months and years.

HERE'S LOOKING AT YOU:

Follow us on our social media channels!



Our Twitter channel @RenewablesGrid delivers most current updates about our work, discussions about the electricity grid and (European) energy policy.

Are you part of the professional network **LinkedIn**? Did you know that we have a company page that you can follow? Search for Renewables Grid Initiative and stay informed about our work.

Are you more into pictures than text? Take a look at our **Instagram** page [renewables_grid_initiative](#) or our **flickr** account.

HOW DO WE WORK?

Take a look at our governance structure



Christoph Bals
Policy Director at Germanwatch



Olivier Feix
Head of Nature Protection and Permitting at 50Hertz, Co-Chairman of the RGI Board



Bente Monica Haaland
Executive Vice President at Statnett



Daniel Pérez Varela
Director of Sustainability and Innovation at Red Eléctrica de España



Dr. Stephan Singer
Head Global Energy Policy at WWF International, Co-Chairman of the RGI Board



Edoardo Zanchini
Vicepresident Legambiente

OUR BOARD

The Board is the decision-making organ of the association in between Members' Assemblies. It consists of at least six voting members, with an equal number of TSO and NGO representatives.

A new RGI board has been elected at the Members' Assembly in November and consists of:

- Christoph Bals, Policy Director at Germanwatch
- Olivier Feix, Head of Nature Protection and Permitting at 50Hertz

- Bente Monica Haaland, Executive Vice President at Statnett
- Daniel Pérez Varela, Director of Sustainability and Innovation at Red Eléctrica de España
- Stephan Singer, Senior Advisor Global Energy Policy at CAN International
- Edoardo Zanchini, Vicepresident Legambiente

The RGI secretariat would like to thank Paul-Georg Garmer from TenneT and Jörg Spicker from Swissgrid for serving as board members and greatly contributing to RGI's success in previous years.

RGI is an association registered in Berlin, Germany. The organs of the association are the Members' Assembly and the Board. The Members' Assembly is the highest decision-making organ of the association and consists of the Secretariat and all RGI partners.

It decides on everything that influences the general set-up, governance structure and strategy of RGI. Each RGI partner has one vote.



Interview with newly elected board member Daniel Pérez Varela, REE



1. *What motivated you to engage deeper in RGI's work by becoming a board member?*

I believed it was the proper time for me and for my company to move forward in our commitment to RGI. Since we joined RGI, the perception of the value of this organisation has grown steadily and it's now largely spread throughout the company.

2. *As a director of sustainability and innovation – what do you consider a major development of the electricity sector in 2016 that will positively impact the future?*

It's maybe too soon to tell, but I have great confidence in the potential impact of the "Clean Energy

For All Europeans policy package" (the very well-known Winter Package). I agree that there are many aspects that must be improved, and some of them might need to be corrected, but I'm optimistic – as we say in Spain: "I see the glass half full". Empowering customers and prosumers by putting them in the centre of the clean energy system is good news, so is trying to improve the energy market. From my perspective it is also a great opportunity for RGI and its members because a robust and integrated transmission network will be essential to achieve the goals of this policy package.

3. *How could RGI and REE work together to develop and implement more socially innovative approaches?*

This is an easy question because we're already working in that direction. This year we will be launching an important project focused on stakeholder engagement and public participation, and we count on RGI's expertise and support. Sustainability plays a very important role in REE's brand new innovation strategy; so more opportunities of collaboration will come up in the short term.

Funding

RGI has three different funding sources: firstly, partners pay annual membership fees; secondly, RGI gratefully receives an operational grant from the European Climate Foundation and the Stiftung Mercator, which has been renewed in 2016; finally, RGI received project funding for work done within INSPIRE-Grid via the 7th European Research Framework Programme (FP7) in 2016. The project came to an end in January 2017.

MEET THE SECRETARIAT

The Secretariat

The RGI Secretariat manages and coordinates all RGI activities, develops and implements strategies and action plans, administers approved budgets, publicly represents RGI, networks and conducts background briefings.

We would like to thank Kristina Steenbock, Amelia Strzepek and Julien Sialelli who left the Secretariat in 2016 for their great contribution to our team – both professionally and personally!



Antonella Battaglini
Chief Executive Officer



Antina Sander
Deputy Executive Director



Nikola Lesinski
Financial Manager



Theresa Schneider
Senior Project Manager



Stephanie Bätjer
Project Manager



Andrew Carryer
Junior Project Manager



Ivan Scrase
Advisor



Matilde Doni
Personal Assistant to the
Chief Executive Officer



Sylvia Kessler
Office Administrator

OUR PARTNERS

RGI is a membership organisation with 18 partners from across Europe. They include the following grid operators and NGOs:

TSOs



NGOs





Imprint

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