

# Annual Report

2013



REGIONS OF  
CLIMATE ACTION

## R20 Hubs

Geneva Los Angeles Beijing Sao Paulo  
Dakar Oran Jakarta Jeddah Vienna Pretoria



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... the bottom-up approach, through regions, with private companies and investors, can really make the difference in saving our planet Earth.”

The year 2013 was an important milestone for R20, firmly establishing our young organization within the international landscape and scaling up activities and operations from R20 version 1.0 to version 2.0.

R20 version 1.0 was initiated in December 2009, at UNFCCC COP 15 in Copenhagen, when Governor Arnold Schwarzenegger, after evaluating the failure of the United Nations negotiations, decided to create a new coalition of Regions committed to action. Based on his Californian experience of AB32, and being able to convince 30 other US States to take similar action, enabling President Obama at Copenhagen to come with a 17% Accord CO2 emissions reduction proposal, regardless of any agreement at the federal level, and encouraged by UN Secretary General Ban Ki Moon; Governor Schwarzenegger met with a number of heads of regions, including Governor Uduaghan from Delta State, Nigeria, President Charet from the Province of Quebec, Canada, President Huchon and Vice President Michèle Sabban from Region Ile de France, and 17 other representatives from other Regions who decided to create R20 Regions of Climate Action.

In September 2010 in Sacramento, Governor Schwarzenegger organised the Third Global Governors Climate Summit where he launched the R20 Charter, signed by representatives of Regions, national governments, NGOs, foundations, private companies, and finance institutions. He demonstrated the power of unifying forces from different horizons and sectors, all sharing the same willingness to demonstrate that Action is possible in spite of unsuccessful talks at the international level.

In September 2011, the First constitutive General Assembly of R20, organised in New York, allowed R20 to get its official constituency launched, with Headquarters in Geneva and the first liaison office in Los Angeles. The California Environmental Protection Agency State Secretary, Linda Adam, was officially elected President of the R20 Board. Terry Tamminen was nominated as R20 Special Advisor to Governor Schwarzenegger, the Honorary Founding Chair of R20.

Based on an agreement between Governor Arnold Schwarzenegger, United Nations Secretary General, Ban Ki Moon, and United Nations Development Programme Administrator, Helen Clark, Dr. Christophe Nuttall, Director of the UNDP Hub for Innovative Partnership, was given a Special Leave Without Pay to join R20 as the first Executive Director. He officially joined R20 in January 2012.

The DNA of R20 Regions of Climate Action started to take form in 2012, shaping R20 as an organisation that enables the green deal flow to happen. R20 connects the dots between i.) sub-national authorities within which decisions for green infrastructures can take place with proper pro-low-carbon economic policies , ii.) private companies which can deliver solutions thanks to their technologies and services to be deployed within cities and regions and iii.) finance institutions, be they private (equities, banks, family offices, etc.) or public (development banks, pension funds, sovereign funds ...) which, through investments and loans, can allow the implementation of projects.

For that purpose, R20 decided to focus on a number of active regions (Morocco, Mexico, China, Brazil and Nigeria) with specific technologies in the field of renewable energy (solar thermal and solar photovoltaic), and energy efficiency (LED streetlighting) and waste conversion.

That year, 2012, also saw the development of a portfolio of some 20 very concrete projects, thanks to very rigorous feasibility studies, amounting USD 1 billion. Based on this new credibility, R20 was able to undertake a survey of finance institutions, which thanks to their profile in addressing specific technologies in different parts of the world with different requirements (ROI, Ratio equity debt, junior or senior debt, minimum and maximum investment, etc.), would allow us to better channel potential investors to R20 projects.

Last year, 2013, has then successfully seen the outputs and results of two years of hard work in demonstrating that real projects can take off on the ground.

The January 2013 event in Vienna, with Austrian Chancellor Fayman, EU Commission President Manuel Barroso, Executive Director of UNIDO Kandeh Yumkella, and a number of Heads of Government with Governor Arnold Schwarzenegger has given a very high visibility to R20. A similar event in June 2012 in Brussels at the EU Parliament in front of hundreds of European Mayors sharing the willing for green growth confirmed the popular approach of R20.

A first batch of R20 projects were financially secured for up to USD 150 million thanks to different investors (including PEGASUS) who trust the R20 approach.

Another very important recognition was given by the Government of Algeria, who asked R20 to develop a zero waste conversion strategy and action plan in its second most important region: the Wilaya of Oran. The three-year partnership agreement should not only secure concrete waste conversion and energy efficiency projects, but also showcase good practices to cities and regions of the Mediterranean basin through the R20 Med hub in Oran.

Significant progress in other regions demonstrated the power of R20 methodologies in sealing the green deal flow between sub-national governments, green tech companies and investors. Small-scale community or town-based projects have been implemented in Nigeria, Burundi, and China. Major pioneering projects have also been secured: i.) Mali with a 50 MW solar PV plant, the first ever project of this magnitude in western Africa, ii.) Brazil with a structured LED streetlight retrofit plan in 12 cities through the creation of a local ESCO; iii.) USA with the biofuel production from waste.

Thanks to these great successes in the year 2013, R20 is ready to move on to the next stage, R20 2.0, where strong innovative finance mechanisms will enable replication and scaling up.

Upstream negotiations with the United Nations (UNOPS) and private investors (Pegasus, Bloomberg, Greenwish etc) allow us to be optimistic with regards to the establishment of a R20-UNOPS Pre-Investment Facility. This facility will allow the design of robust feasibility studies, thereby reducing risks of the portfolios of potential projects, and increasing their attractiveness to private investors. Private investors will invest via a private equity platform managed by an independent asset manager, thus increasing access to a larger pool of capital and a more diverse profile of investors interested in first-class green technology infrastructure projects.

This will open the door to securing large-scale green deal flows, enabling the replication of the 50 MW Malian project to a 1 GW renewable energy plan for Africa, the 12-city LED streetlighting project in Brazil to many more regions in Brazil and Latin America, etc.

This strong record enables R20, with the support of the French National Government, to lead the bottom-up approach Road Map to COP 21 in December 2015. R20 is preparing, with many other partners and networks of cities and regions, a bottom-up declaration committing to large actions, replication and scaling up.

These very promising results would not have been possible without the leadership of our unique and passionate R20 Founding Chair, Governor Schwarzenegger, our tireless Board President, Michele Sabban, and the expertise and guidance of our Strategic Advisor Terry Tamminen.

Let's not forget the most important talents, without whose tireless efforts and work, day in and day out, all this would not have happened: the 50 R20 staff and personnel in Geneva, Los Angeles, Oran, Sao Paolo, Dakar, Jakarta, Vienna, Pretoria and Beijing. Many thanks to these dedicated unique talents!

Last but not least thanks to all our active members and partners who believe in the R20 approach, to our sponsors and financers who trust the R20 vision and mission.

2014 will see the concretisation of our first results, showing the world that the bottom-up approach, through regions with private companies and investors, can really make the difference in saving our planet Earth.

Rendez-vous at the World Climate Summit of Regions in Paris October 10 – 11 for strong commitments demonstrating that the Green Economy is not a dream but a reality for a better world!

Christophe NUTTALL  
Executive Director

## R20 REGIONS OF CLIMATE ACTION

### THE GLOBAL PARTNERSHIP ORGANIZATION ON CLIMATE ACTION AT THE SUB-NATIONAL LEVEL

Inspired by how successful action at the sub-national level is (state/provincial/regional/local), R20's Founding Chair, former Governor Arnold Schwarzenegger, and other sub-national leaders decided to create an organization around their working relationships, and based on partnership and collaboration: R20 Regions of Climate Action.

R20 is a global partnership organization, bringing together sub-national governments; private businesses; financial institutions; academic institutions; non-profit organizations; intergovernmental organizations, and United Nations programmes from across the world

*to develop and implement measurable,  
large-scale, low-carbon, and  
climate-resilient  
economic development projects*

at the sub-national level. This transdisciplinary approach seeks to simultaneously solve the climate crisis and build a sustainable global economy. Solutions already exist, have been proven at scale, and can now rapidly be deployed on a global scale.

R20 is an international non-profit organization with headquarters in Geneva, Switzerland, and regional offices in Algeria, Austria, Brazil, China, Indonesia, Saudi Arabia, South Africa, Senegal and the USA. The organization currently liaises with more than 500 sub-national members (including associations of local governments), and over 70 private and civil society partners from across the world that are committed to taking action against climate change.

### THE R20 MISSION STATEMENT

*“To help states, provinces, regions and other sub-national governments around the world develop, implement, and communicate low-carbon and climate resilient economic development projects, policies, and best practices.”*

R20's bottom-up approach enables local governments to implement a multitude of projects that can only be managed at the local level. Sub-national priority areas may include: clean public transportation, energy-efficiency in public buildings, LED street lighting, wind energy, micro-hydro power, solar energy, and waste-conversion projects. Such projects often fall in the hands of mayors and/or leaders of districts, regions or provinces. Moreover, recent research published by UNDP shows that 75% of potential solutions for a low-carbon economy lie with sub-national governments.



## R20 ACHIEVES ITS MISSION BY

- *Aggregating low-carbon projects* to a scale that will make these projects both technologically and financially feasible, where they otherwise would not be;
- *Catalyzing partnerships* between regions for fast-track actions; and
- *Mobilizing and leveraging technology, public funding, and private sector finance* where appropriate.

R20 believes that many low-carbon projects can be completed at “no net cost” and, in fact, will generate new economic benefits. Promoting climate resilience and adaptation will similarly result in significant cost savings, and generate economic benefits and opportunities for sub-national governments. In this respect, the R20 sees the green economy concept as a real alternative for sustainable growth and development, consistent with the need to reduce GHG emissions globally.

## R20's UNIQUE MODEL

R20 helps build an effective green deal flow at the sub-national level. This is made possible by connecting together *Regions*, *Technologies* and *Finance* to build sustainable low-carbon projects. R20 is an impartial and independent organization, playing an intermediary role on behalf of private and public entities interested in taking concrete steps to developing green economic activities and projects.

In the first 24 months of activity, R20, by applying this unique business model, has already managed to identify and present around one billion dollars' worth of sustainable and bankable sub-national projects to potential investors.





## HOW DOES R20 IDENTIFY AND DEVELOP ITS PROJECTS?

R20 is focused on action; not just policy debate or knowledge sharing or lobbying action; dedicating its resources to low-carbon economic development projects where it can add measurable value. In many cases this means providing policy, technology, or finance that make complex projects viable.

R20 projects are identified, developed and implemented through five project phases:

**PHASE 1: Initial Mission.** R20 staff conduct an “initial mission” for member governments in their regions to learn about low-carbon economic development goals (i.e. energy efficiency of buildings and municipal lighting retrofits; alternative fuels and renewable energy development/deployment; waste conversion opportunities; and carbon market design).

**PHASE 2: Project Assessment.** Out of the projects identified during the initial mission, R20 selects those that can add significant, measurable value. Those projects are then assigned to relevant technical, policy, and financial staff, partners, or advisors to assess the feasibility of the projects and make recommendations to improve economic and environmental outcomes.

**PHASE 3: Project Development Plan.** For those projects found to be viable from a technical, policy, financial and environmental standpoint, the R20 then:

1. Determines the project development budget;
2. Secures the necessary funding and other resources for personnel time, travel, and the initial due diligence process by appropriate staff and advisors from its members and partners;
3. Works with its member government, technology providers, project developers/owners, and other stakeholders to create the Project Development Plan (the Plan).
4. Shares the Plan during the drafting process with advisors and potential investors/lenders so that the final document can serve as a roadmap to the prompt implementation of the project.

**PHASE 4: Submission to the R20 Green Finance Network.** The final Plan is presented to relevant members of the R20 Green Finance Network (GFN), a group of more than 160 global and regional financial institutions representing all classes of debt and equity investors and lenders. Because R20 has pre-screened GFN members, it can quickly identify those institutions that are a good fit for the project and help develop financial support for implementation.

**PHASE 5: Project Implementation and Measurement.** When financing has been secured, the project is implemented and results are measured over time to ensure they are consistent with the original goals. This phase also involves standardized measuring, reporting and verification of carbon emissions’ reduction, environmental goals, and economic development benefits.

## REGIONS IN ACTION

R20 designs, implements and evaluates low-carbon projects within sub-national governments.

## TECHNOLOGIES IN ACTION

R20 also assembles expert technology teams that can be deployed to R20 Member regions to help with project implementation; and

R20 develops new technologies and showcases them to its members for global use; and compiles “toolkits” of practical low-carbon technologies and policies that can be implemented at the sub-national level.

## FINANCE IN ACTION

R20 facilitates investments in low-carbon projects within sub-national governments through its robust network of public and private investors. The Green Finance Network (GFN) centralizes and organizes critical project information and opportunities for interested investors.

R20's three-year program in Algeria was successfully launched in September 2013. Work on the pilot program has started in keeping with the cooperation agreement signed in Algiers on June 25th 2013, by the former Minister of Environment Mr. Amara Benyoune's and the Founding Chair of R20, Arnold Schwarzenegger, under the high authority of Prime Minister Abdelmalek Sellal.

The working sessions of 16-18 September brought together Algerian government and local stakeholders of the Wilaya of Oran, to identify and set priorities, and to determine the stages of implementation, as well as to decide on a realistic timetable for the coming months.

For the first phase of the agreement (2013-2014), four main sub-programs were set up:

- Waste management (value chain collection, sorting, recycling and management of waste, primarily household waste on the territory of the Wilaya of Oran);
- Energy efficiency with two components: LED public lighting and energy efficiency of buildings;
- Mapping management for territory diagnosis, foresight, decision support, monitoring & evaluation and pedagogical knowledge dissemination;
- Strengthening local capacity, and national and international training on the three topics above.

The partners agreed that from the on-start it would be essential to select the most feasible and most profitable quick-win projects. Emphasis was placed initially on the valuation of options (recycling, rational management, formalization of economic sectors, etc.).

Opportunities for the establishment of public-private partnerships were to be studied in particular. The first results and roadmaps for implementation were scheduled to be ready in early 2014 (to coincide with the African High-level Conference on Climate Change), for presentation to the African ministers and the R20 Founding Chair, Arnold Schwarzenegger.

It was also agreed that technical training should be designed to provide international visibility of the City of Oran. Training sessions should be provided by leading organizations, universities and business associations (i.e. United Nations training programs, the Global Sustainable Electricity Partnership/GSEP, etc.), systematically addressing the four key aspects of the R20 approach: institutional, technological and financial capacity building, and monitoring, for effective identification and development of bankable projects.

Bahrain

In July 2013, under the leadership of Terry Tamminen, Strategic Advisor to R20's Founding Chair, R20 USA submitted a Sustainability Action Plan for Bahrain. The *R20-UNIDO/ITPO (Bahrain) - Southern Governorate Sustainability Action Plan* is designed as a concept note to identify the ways in which the Southern Governorate can become a world leader in sustainability. The scope of the Action Plan is meant to be a roadmap to identify and recruit partners to collaborate on near-term projects and a means to set forth long-term goals. The sustainability focus of the Southern Governorate has several advantages for implementing the Action Plan. Most notably, there is the strong support of His Excellency Sheikh Abdulla bin Rashid Al Khalifa, Governor of the Southern Governorate, who has already convened a task force to address issues of sustainability and green growth. This support is mirrored by other leaders in Bahrain who are also keenly focused on sustainable practices in all sectors.

The Action Plan highlights specific technologies and projects within relevant categories that can be explored and implemented in Bahrain. First and foremost are technologies and actions that address water supply and conservation. Second, the issue of waste, specifically the utilization of a "zero-waste" approach is also an area of opportunity. Energy efficiency is another sector that can be explored by Bahrain, with retro-commissioning; LED lighting and efficient housing & government buildings retrofitting, and especially in new construction and infrastructure. In terms of clean renewable sources of energy, solar, wind, geothermal, and biomass conversion offer excellent opportunities for Bahrain to offset a significant percentage of its energy demand. Finally, R20 is also in a good position to propose food production and food security approaches for Bahrain.

The goal of the Action Plan is to break ground on first projects and other key deliverables by 2014. Early 2014 would focus on refining and completing this Action Plan in collaboration with the Governorate and relevant stakeholders, conducting reciprocal technical visits (U.S. and Bahrain), designing communications and events as well as other actions that will help support deliverables of the Plan.

In August 2013, the R20 USA hosted Governor Abdullah bin Rashid Al Khalifa of the Southern Governorate of Bahrain and took him on a tour of a Material Recovery Facility, a plastic recycling facility, and an anaerobic digestion facility in Los Angeles County. The tour was very successful and the Governor expressed his keen interest in continuing to work with R20.

In December 2013, R20 Executive Director, Christophe Nuttall, and R20 Chief Investment Officer, John Tidmarsh, conducted a mission to Saudi Arabia. They had the chance to meet with:

- The Saudi Environmental Society, and the Home of Experience Sustainability (King Abdulaziz University), to discuss priorities and programs that need to be put in place in the Kingdom;
- Dr. Hani Aburas, the Mayor of Jeddah (second largest city, population of 5.1 million). Dr. Aburas is a pioneer in the Kingdom, having built the first ever LED certified building in the Kingdom, and is already testing LED street lights with plans to roll out two major projects. Dr. Aburas agreed to work with R20 in developing our proposed model for a financed branch and training centre in Saudi Arabia. In addition, talks included a proposed 'Green Pilgrim Cities Program' to be further examined by the Governor of the Province of Mecca, Prince Khaled (under whose authority falls Mecca, and Jeddah). Dr. Hani Aburas also accepted to represent Saudi cities and Mayors on the R20 Board, in a personal capacity, and to work with R20 in obtaining the support of key figures in the Kingdom, in both the government and the private sector.

R20 signed an MoU with the Saudi Environmental Society, and the Home of Experience Sustainability (King Abdulaziz University), to set up the R20 Saudi Arabia & Middle East hub. Within this context, R20's relationship with Saudi Arabia started under excellent auspices. Dr. Majdah Aburas, President of Saudi Environmental Society, was nominated to represent R20's interests in the region, in view of setting up the R20 office for Saudi Arabia & the Middle East.

## Austria

Ms. Monika Langthaler, managing partner and co-founder of Brainbows in Vienna, was appointed as the R20 Director for Austria and the EU. As highlighted by the R20 Founding Chair, Arnold Schwarzenegger during the January R20 Conference organized by Brainbows and G.R.A.C.E. in Vienna, the environment is a very important aspect of Austrian culture. Austria has 106 climate and energy regions, each with a local project coordinator for renewable energy.

The R20 Austria office is intended to become the R20 hub for European Union projects, as well as the liaison office with the UNSE4ALL Secretariat, as Kandeh Yumkella and his team are based in Vienna. In addition, the R20 Austria & EU office will be entrusted with organizing annual events similar to the R20 Conference of January 2013, paying particular attention to raising awareness and closely involving youth and students in climate change action.

## Ukraine

The Governor of Donetsk and his delegation participated in the R20 Vienna Conference, where they presented ambitious targets in the fields of green energy and sustainable development. As a result of its increasing involvement in negotiations with the R20, the Head of the Donetsk regional state administration, Andriy Shyshatskyy, and R20 Founding Chair, Arnold Schwarzenegger, signed an agreement to open an R20 office in the city of Donetsk.

Donetsk authorities worked with R20 to create a working group of all regions and stakeholders involved in voluntary ETS (emission trading system). The goal is to establish a set of common rules and to explore opportunities to create a carbon-market link between Donetsk and other world regions.

In October, Donetsk hosted the sixth annual International Investment Summit. The event was launched by the President of Ukraine, Mr. Yanukovych, and focused on investment opportunities in energy efficiency.

In his opening speech, the Governor of Donetsk, Mr. Andriy Shyshatskyy, spoke of the collaboration between the region of Donetsk, one of the founding regions of R20, and R20. Mr. Nuttall, Executive Director of R20 and moderator of the first panel, introduced the R20 strategy for Donetsk. Stakeholders from various backgrounds were present and were shown some of the best practices currently being implemented in the Donbass Region. The summit revealed the strong involvement of the Ukrainian private sector in driving sustainability efforts.

Unfortunately, as a result of the political crisis in Ukraine, and Donetsk in particular, all activities in Ukraine have since been put on hold.



Arnold Schwarzenegger. R20 Founding Chair.  
R20 Annual Conference. Vienna 2013.



## Mali

After the Malian authorities expressed interest in working with R20 in January 2013, and after signing a Memorandum of Understanding a month later, R20 carried out a pre-feasibility study in Mali. Under the leadership of Mr. Mamadou Saliou Sow, R20 Director for West and Central Africa, a number of consultants and experts located in Dakar visited sites and met with local counterparts, such as the National Authority on Energy and Société Energie (the energy company). The pre-feasibility study was approved in April 2014 by the National Authority on Energy and a new agreement was signed between R20 and Akuo Energy, a French private company with a global presence specialized in developing renewable-energy power plants. Following this new agreement, two current projects include the 50 MW solar photovoltaic plant in the city of Kita, and the 0.5 MW hybrid station in Kangaba. Note that pricing of solar energy is attractive as compared to the price of oil.

By the end of 2013, the feasibility study for the Kita project had been approved by the Government, making it ready to be financed. R20 has since been in talks with private equity firms and international development banks.

## Nigeria

R20 Executive Director, Mr. Christophe Nuttall, and R20 representative, Ms. Denise Welch, were invited to Delta State in July 2013 to discuss existing projects and to continue prior discussions about green growth with Governor Emmanuel Uduaghan. During this trip, they were invited to several important events, such as the first-ever stakeholder forum on climate change in Delta State (*Delta Beyond Oil – Opportunities in Climate Change*).

This event confirmed the impressive will of Delta State and Governor Uduaghan to become one of West Africa's leading regions for climate change mitigation and adaptation, and at the same time demonstrated the long-term strategy of the State that is looking at a future beyond oil. Christophe Nuttall and Denise Welch also took part in an interactive stakeholder's workshop to present the draft of the Delta State Integrated Territorial Climate Plan, a major output of the Delta State Territorial Approach to Climate Change (TACC) Program. The two R20 representatives and Ms. Felicia Adun, Head of the Delta State TACC Program, visited two impressive and innovative pilot projects designed by Engineer Mr. Ifeanyi Aghaulor and his company, the Biotech Development Network. The first project is a household biogas digester at the government guesthouse kitchen, which anaerobically digests kitchen scraps to generate methane gas for cooking. Mr. Aghaulor and his company also designed and installed a solar water-borehole and solar water-heater at rural health clinic. The project provides hot water to the entire clinic, allowing the employees to sterilize their medical instruments, and thus providing safer treatment to their patients.

R20 and Delta State share the same vision for building a green economy, and are therefore committed to helping local entrepreneurs like Mr. Aghaulor with their community-based projects. In this capacity, R20 will work with Delta State to raise sufficient funds for the replication and scale-up of these, and other, pilot projects in Delta State. In addition, Delta State asked R20 to design and build a "green economy agency" and undertake three feasibility studies, to be undertaken in 2014.



Mr. Peter Ibrahim (left) and Mr. Ifeanyi Aghaulor adjust the waste outlet pipe of the household biogas digester at the Government Guest-house Kitchen, Asaba, Delta State, Nigeria.



The bakery's wood storage space.  
Gitega Province, Burundi.

# REGIONS IN ACTION

## AFRICA

### Uganda

R20 has been collaborating with a new member, the Africa Partnership on Climate Change Coalition (APCCC), on a project to supply an off-grid energy solution in the Mabira Forest, located in the Buikwe District in South East Uganda. The initial objective of this project is to supply solar lighting equipment to three villages that consist of 150 different households inside the forest. The high demand of firewood and charcoal destroys the local forest and increases climate change effects. The APCCC project goals are: 1) fighting deforestation and climate change, 2) sustainable use of natural resources, 3) instruments for prevention and awareness raising, 4) supporting local women's groups and youth clubs and 5) capacity building on climate change.

### Burundi

R20 launched a pilot project for a solar oven to be used in an existing bakery in Gitega Province with its partner NGO, CIRID, in August 2013. The Solar Bakery Business Plan was developed by R20's East Africa Program Manager, Mr. Jini Sebakunzi, following the strategy workshop and observations on the ground.

The bakery had to be closed down for a few months as the price of fuel wood had tripled due to a lack of wood and the economic crisis. However, the CIRID team on the ground was determined to get the project running again and fund the necessary fuel wood to run the bakery for another couple of months. As a result of the bakery's temporary closure, the team were unable to carry out the regional study as had initially been planned.

In December, R20 drafted and published a call for tenders for the procurement of solar ovens and is currently waiting for responses.

### South Africa

R20's consultant in South Africa, Ms. Elisabeth Vosloo, produced a comprehensive summary of renewable energy projects in South African regional, district and metropolitan municipalities. The study notes that South African regions, districts and metropolises have considerable leverage in sustainable energy production, delivery and use, based on the South African commitments towards reducing the country's carbon footprint and fossil fuel consumption. In this respect, the South African Integrated Resource Plan (IRP), or Renewable Energy Strategy, is intended to considerably improve the provision of energy, in order to end an endemic power crisis that has long affected the country's economic performance. With a commitment already in place to massively reduce its carbon emissions, ambitious targets were set – most notably that by 2030, renewable energy is to account for around 42% (17,000 MW) of the country's total energy needs.

USA

The State of California, a founding member of the R20, announced a ground-breaking agreement in Shenzhen (China) which illustrates the effectiveness of climate change solutions at the sub-national level. Under the agreement, California and Shenzhen Province have agreed to work together to share policy design and early experiences from their respective climate trading programmes, in order to build strong, stable and growing markets for clean energy technology and greenhouse gas emission reductions. This agreement is an outgrowth of the work started by R20 Founding Chair, Governor Arnold Schwarzenegger, with the passage of California's landmark Global Warming Solutions Act of 2006.

The states of Illinois and Arizona are in the process of joining R20 as a result of outreach conducted by Mr. Terry Tamminen, Special Advisor to R20's Founding Chair. Mr. Tamminen had several meetings with government officials in both states and shared R20 technologies, specifically the work being done on waste conversion (through R20 partner KORE) and LED street lighting. Both states expressed interest in projects related to those technologies and are poised to join the R20 in order to move forward.

In addition, R20 USA continued to work on finalizing the R20 LED Streetlighting Toolkit with its partners, Lighting Science Group and Philips Lighting. A series of Country Briefing Books were compiled, in order to brief potential foreign investors on the history and current economic climate of a particular country to aid in the development of potential green marketing strategies. Currently, six Country Briefing Books are available: Algeria, Brazil, China, Mexico, Moldova, and the United Kingdom.

Mexico

During the second semester of 2013, R20 USA worked on the development of several projects, including our Baja energy project in Tecate, and our ethanol project in Veracruz and Jalisco, Mexico. R20 USA is currently working with Baja Energy, a renewable energy firm, to finalize the development of a 65 MW waste-to-energy power plant located in Tecate, Mexico. The facility will receive 200 tons/day of municipal solid waste from the region, which will then be converted to electricity using gasification technology. This will be the first waste-conversion facility in Mexico's history.

R20 USA also worked with Isthmus Energia Verde, a private investment company, to develop and build two bio-refineries to produce fuel-grade advanced ethanol. The refineries will be located in Veracruz and Jalisco, and each are expected to produce 30-35 million gallons of ethanol per year and have an installed capacity of 36 Megawatts of renewable electric power; up to two-thirds of that capacity can be exported to the grid.

# REGIONS IN ACTION

## THE AMERICAS

### Brazil

Under the leadership of its R20 Brazil Director, Jorge Pinheiro Machado, R20 developed a strong and growing presence in Brazil. R20 Brazil's flagship projects include LED streetlighting projects for Brazilian cities, in collaboration with Lighting Science Group (USA). Cities benefitting from the project include Rio de Janeiro, Salvador, Natal, Palmas, Paragominas, Sao Carlos, Recife, Santa Barbara, Sao Paulo, Santarem.

For these major projects, R20 Brazil has been working in partnership with the Brazilian electricity company ELETROBRAS.

In addition, LG became a R20 Brazil partner to work on the city of Sao Bernardo, and Philips is also expected to join to work in yet another city in Brazil.

Work on specific projects in Brazil is carried out in close collaboration with R20 member regions: Acre, Para (Paragominas and Santarem projects), Sao Paulo (Santa Barbara, Sao Carlos and Sao Bernardo projects), Rio Janeiro (Rio de Janeiro City project) and Mato Grosso (for ten cities to be identified). R20 corporate partners in Brazil include LG, TROPICO, EBES, CIBIOGAS, ELETROBRAS, Bank of Tokyo, and Prisa.

## China

R20 aims to identify Chinese low-carbon technology companies to be promoted worldwide, to deploy leading low-carbon technologies, to educate the public on how to take action against climate change, and to identify low-carbon development projects in China where R20 can add value (such as the demand of technologies for new environmental challenges, policy recommendations for effective environmental strategies or Green Finance).

Ongoing projects in China include:

- In the city of Lijiang, R20 China worked with Westech and its partners to analyze power and water data to identify the right solutions for the city.
- R20 facilitated the collaboration between California and Shenzhen on a carbon exchange centre, and worked on the program design and pilot trading system.
- Jiangsu governments, especially in Wuxi city, sought to connect with R20 member regions on renewable energy needs. By working with Westech and other related solar partners, we are establishing an R20 web platform ([www.azolar.com](http://www.azolar.com)), to get solar energy resources linked to R20 regions. This will not only provide value added services to renewable energy companies, but can provide some funding from the profits of the web platform.

Throughout 2013, R20 China worked with Westech and similar technology companies in Jiangsu in Wuxi (Jiangsu Province), Los Angeles (California) on solar water thermal projects. R20 China also worked with potential partner, ATG Electronics, on several LED Lighting retrofit projects in Los Angeles, as well as with Zero-community on waste materials trade with companies in China. In addition, R20 signed an agreement with the American Chinese Trade and Investment Promotion Association (ACTIPA) that works with companies in China on sustainable profits. ACTIPA and similar companies are expected to financially support R20 operations in China.



# REGIONS IN ACTION

## ASIA

### Indonesia

Thanks to the new R20 Director for Asia Pacific, Mr. Nico Barito, the sub-national government of North Sumatra and R20 signed a Memorandum of Understanding to work collaboratively on climate resilience and energy efficiency. R20 will draw from its internal and external networks to provide technical, financial and policy expertise to help launch North Sumatra into the green economy.

As one of the world's largest suppliers of palm oil, North Sumatra is endowed with vast quantities of natural resources. The region has the potential to produce biofuel from palm oil waste, and with its volcanic endowment, geothermal power. North Sumatra also has ample potential for hydropower energy production. The first hydro power plant, located at Lake Toba, supplies energy to Southeast Asia's only aluminium smelter, INALUM. With rising demand for renewable energy from plantation and other booming upstream agriculture industries, there is increasing opportunity to make the transition to a green economy.

On December 11, in Jakarta, Mr. Nico Barito, signed a MoU on behalf of R20 with APEKSI (the Association of Cities of Indonesia). The Association was represented by Mr. Vicky Lumentut, Chairman of APEKSI and Mayor of the municipality of Manado, in North Sulawesi, Indonesia. APEKSI is an official local government association of the 98 cities in Indonesia. The mayors of the cities are key actors of urban development and the green economy approach. The rapid growth of several cities in Indonesia significantly degrades the environment. Issues relating to waste and sanitation, and public infrastructure (i.e. water, public transportation and electricity), are priority concerns for APEKSI. APEKSI, therefore, foresees the need to adopt green technologies and renewable resources to build resilient cities.

To this end, Mr. Lumentut, on behalf of the Mayors of Indonesia, has agreed to undertake a pilot project with R20 in his own city, Manado, for biomass conversion and solar-powered streetlights. The project is expected to begin in May 2014. The Chairman of APKASI (the sub-national government overseeing 416 regents), Mr. Isran Noor, expressed his full support to Mr. Lumentut who offered to host the first R20 Asia-Pacific Conference in Manado in May 2014. The event will be supported by APKASI and APEKSI, whose members amount to 514 regents and cities. Other regions that will be invited to the event include regions from South East Asia, Central Asia, Africa, Australia, and the small island states from the Indian and Pacific Oceans.

## Building Efficiency Toolkit

R20 completed its Building Efficiency Guide for Governments, a guide designed to inform sub-national government officials about the significant economic, environmental, and social benefits associated with resource efficient buildings - and more importantly, to encourage sub-national governments to take action, create and promote building efficiency in their communities. As a result, the Guide is designed to serve as a roadmap for sub-national government action. It highlights the spectrum of important actions that governments can take to create greater building efficiency within their jurisdictions. The 48 page Guide is posted on the R20 Website (<http://regions20.org/images/BuildingEfficiencyToolkit2013.pdf>).

## LED Street Lighting Toolkit

In January 2013, R20 began working on the LED Street Lighting Toolkit in collaboration with Philips Lighting and the Lighting Science Group, and is now in the final stages of completing the Toolkit. The guide will help to educate and encourage municipalities and sub-national governments to implement LED street lighting programs in their regions. It will officially be launched in 2014.

## TECHNOLOGIES IN ACTION

### Joint Action Plan Renault-Nissan

Following the successful partnership initiated during the R20 Vienna Conference, R20 and Renault-Nissan have discussed ways to further develop their collaboration. One option under discussion is to work with the Assembly of European Regions (AER) and European C40 cities to conduct an inventory of existing e-mobility initiatives in Europe and assess what type of actions could be scaled up. In addition, R20 and Renault-Nissan are examining the joint development of an e-mobility toolkit. Finally, there could be considerable scope for organizing awareness workshops/events for European regions in order to mobilize sub-nationals to invest in e-mobility infrastructures. As a next step, the two parties are working on a concept note to lay the grounds for a concrete joint action plan.

### Philips Lighting

In June 2013, R20 Founding Chair, Arnold Schwarzenegger, and Philips Lighting CEO, Eric Rondolat, signed an MOU in Brussels to further expand collaboration between Philips Lighting and R20. Thanks to the agreement, a part-time LED expert has been seconded by Philips to undertake feasibility studies with R20 members. The feasibility studies will greatly contribute to expanding the pipeline of R20 projects. In addition, R20 and Philips Lighting are continuing their discussions with the European Bank for Reconstruction and Development (EBRD) to secure financing for those projects.

### Akuo Energy

Within the framework of the MOU signed between R20 and the Malian government for seven solar farms and three hydro projects, R20 has identified a technical and financial partner: Akuo Energy. On June 24th, in Brussels, R20 Founding Chair, Arnold Schwarzenegger, and Akuo Energy CEO, Eric Scotto, signed an agreement enabling Akuo Energy to undertake feasibility studies and to take on the role of project manager for the projects. R20 will continue managing relations with the national authorities and, for its match-maker role, will receive a success fee for every successful project actually implemented. The first feasibility study was carried out for a solar farm located in Kita, Mali, that will be connected to the grid between the Manantali Dam and Bamako.

## TECHNOLOGIES IN ACTION

### Solar SunPorts

R20 has been conducting outreach to airport parking lot facility managers in California to discuss potentially installing Solar SunPorts at their facilities. R20 partner, the Mills Group is a developer of the SunPorts which enable parking facilities to provide covered parking and in doing so, generate clean, green energy. The goal is to partner with a parking facility to launch a pilot programme that could be replicated at parking facilities in our member regions.

### KORE

R20 has been working with Kore (waste conversion). A number of sub-national delegations from Algeria, Bahrain, and China, have visited over 14 pilot projects in Los Angeles.

### KLEAN

R20 USA has been working with technology partner KLEAN (tire waste-to-energy). KLEAN has been working on three potential project sites in Italy, the UK and the US state of Ohio. The UK site has been accelerated and we are expecting an updated business plan in August 2014. The goal is to use the site as a showcase for R20 regions.

# TECHNOLOGIES IN ACTION

In early 2013, R20 successfully completed its first project in China. R20 partner Westech's solar water-heating demonstration project was deployed at both the Environmental Protection Agency and the Wuxi Chinese Medical Hospital in the City of Wuxi, Jiangsu Province. In line with R20's philosophy, R20 is sharing best practices from this initial project to replicate it in additional locations. R20 and Westech are currently working with Repet Inc. on a solar water-heater project in the suburban area of Los Angeles.

R20 continued liaising with several leading industry associations, including the Guangdong LED Association, Shenzhen LED Industry Association, China Solid-State Lighting Alliance, Shanghai LED Engineering and Technology Association, etc. R20 has also been working with Tianjin Environmental Exchange on LED streetlight project development, especially in North-east China. R20 partner, Westech, also discussed with R20 partner, Lighting Science Group, partnering together to work in China.

R20 China has been examining the possibility of applying KORE's technology and ReCommunity in Beijing, Wuxi and Shenzhen. Beijing Jinyu Group has already offered baseline data on waste information in Beijing.

"Zero waste" technology based on the ZeroWaste Global technologies has also been used in Wuxi, Beijing, Shenzhen and Qingdao.

## Solar water-heating

## LED Lighting

## Biosolids and waste treatment

## Zero waste

R20 was founded to link government, technology and finance to implement sustainable, low-carbon economic development projects.

The pipeline of R20 projects shows the value of that approach. To deliver the finance part of this approach, R20 created the R20 Green Finance Network (GFN), which now includes over 160 financial institutions from all over the world, and represents every part of the capital structure (equity and debt). For each GFN-referenced financial institution, R20 has established a profile according to their interest and willingness to finance - and by type of technology, geographic location, financial conditions (equity, debt, return on investment, min. and max. investment, etc). R20 staff provides analyses of projects and initial due diligence to GFN participants to make it easier for investment professionals to evaluate opportunities and ultimately to finance R20 members' projects.

To date, R20 successes with this approach include:

- USD 150 million worth of financing for building facilities to convert sewage bio-solids into renewable low-sulfur diesel fuel, and other useful by-products. The first facility will be built over the next year in Los Angeles, California and will become a model for other regions and investors.
- Design of unique financing models for streetlight retrofit projects in Brazil, where energy savings repay the cost of the upgrades (see *The Next Generation of Street Lighting: A Feasibility Study & Action Plan for Rio de Janeiro* at [www.regions20.org](http://www.regions20.org)).
- The 50 MW solar-power plant in Kita, Mali, where USD 100 million required CAPEX has been identified and is about to be secured.
- Advisory services have been provided to more than 30 project developers in North and South America, Europe, Africa, and Asia to help them make their projects and companies more bankable and likely to attract financing from the GFN.

### R20 – UNOPS Partnership Agreement

In November 2013, R20 signed an important partnership agreement with the United Nations Office for Project Services (UNOPS). The agreement covers a range of services that will assist R20 in helping sub-national governments around the world develop low-carbon and climate-resilient economic development projects. This includes the setting up of a Pre-investment Facility (PIF) to support regional and local authorities in carrying out feasibility studies for potential renewable energy and energy efficiency projects, and to design portfolios of bankable projects to attract both public and private investors. The partnership also aims to administer funds for training programmes tailored to sub-national authorities. Under the agreement, UNOPS will provide support to R20 in organizing and hosting conferences, seminars and workshops, as well as with the recruitment of specialists for conducting feasibility studies.



### R20 Annual Conference, Vienna, January 31 - February 1, 2013

R20 started the year 2013 with the R20 Annual Conference, organized in Vienna, in collaboration with partners Brainbows and G.R.A.C.E. To illustrate R20's governance principles and its underlying business model, the conference gathered national and regional governments, the United Nations, investment banks, technology companies, NGOs and academic institutions, engaging them in frank dialogue on how to concretely tackle climate change and jump-start the green economy.

Austrian Chancellor, Mr. Werner Faymann, EU Commission President, Mr. José Manuel Barroso, UNIDO Director General, Mr. Kandeh Yumkella, and R20 Founding Chair, Gov. Arnold Schwarzenegger were outstanding in getting the message across, stressing the need for concrete action through the combined power of all actors, at every level.

The outcomes of the R20 Vienna Conference were manifold and truly beneficial for the organization. In addition to the significant international visibility achieved, R20 has gained new adherents, while further strengthening work relations with current members and partners. Among the first and most noted results, R20 was able to engage in activities with the cabinet of the EU Commission President and with the United Nations SE4ALL initiative.

### Opening Ceremony of the 4th Covenant of Mayors, June 24, 2013

The first day of the European Union Sustainable Energy Week, June 24th 2013, opened with the 4th Covenant of Mayors, gathering more than 500 mayors from across Europe. The opening ceremony was hosted by Mr. José Manuel Barroso, President of the EU Commission, Ms. Anni Podimata, Vice President of the European Parliament, and Mr. Ramón Luis Valcárcel Siso, President of the European Committee of Regions. As the guest of honour, R20 Founding Chair, Gov. Arnold Schwarzenegger, addressed the assembly of mayors in a compelling fashion, inspiring them to take concrete action in the fight against climate change.

The ceremony was also the ideal venue for official signatures between the R20 Founding Chair and the regions of Réunion (France), Donetsk (Ukraine), as well as Philips Lighting and Akuo Energy. The event, and especially the bilateral discussion between the R20 Founding Chair and the European Commission President, have resulted in a commitment on both sides, to join forces to promote the bottom-up sub-national approach in the crucial phase of climate change negotiations leading up to COP21 (Paris, 2015).

### ALGIERS and ORAN, ALGERIA – Official visit of the R20 Founding Chair

On June 25th, 2013, Gov. Schwarzenegger travelled to Algiers and to Oran (Algeria), where he was welcomed by the Algerian Prime Minister, Mr. Abdelmalek Sellal, and signed a three-year agreement with the Minister of Environment, Mr. Amara Benyounés. The official visit to the city of Oran included a meeting with the Wali, Mr. Abdelmalek Boudiaf, and a welcome parade by the citizens of Oran. On this occasion, Gov. Schwarzenegger gave a keynote address to 200 professors, that was rebroadcast to 1,000 students at the University of Oran, stressing the need to take action from the bottom-up and encouraging young generations to move to a sustainable economy.

### LAS VEGAS, USA – National Clean Energy Summit

On 13 August 2013, R20 Founding Chair Arnold Schwarzenegger participated in U.S. Senator Harry Reid's National Clean Energy Summit where he discussed how sub-national governments are leading the way on clean energy solutions. Mr. Schwarzenegger participated in a panel discussion with R20 Co-Founder and former Governor of Michigan, Jennifer Granholm; clean energy hero, Maryland Governor Martin O'Malley and moderator Rose McKinney-James, Chair of the Clean Energy Project.

### PARIS, FRANCE – Welcome of the PlanetSolar boat in Paris

R20 President, Ms. Michèle Sabban, boarded the PlanetSolar boat with Ms. Anne Hidalgo, First Deputy to the City of Paris. PlanetSolar stopped over in Paris on the 10th of September 2013. The PlanetSolar project launched its 2013 renewable energy cam-

paigned by repeating its transatlantic voyage to try to break the boat's own speed record of 26 days. Led by Professor and Climatologist Martin Beniston, from the University of Geneva, this project aims to collect data from the Gulf Stream.

#### NANTES, FRANCE – World Mayors Summit on Climate Change

R20 Board President, Ms. Michèle Sabban participated in the World Mayors Summit on Climate Change held in Nantes on 28 September 2013. Ms. Sabban welcomed the Declaration of Nantes, and reiterated R20's support for this initiative. During her speech, Ms. Sabban officially launched the World Summit of Regions that will be held in Paris in October 2014.

#### NUSA DUA BALI, INDONESIA – APEC Summit 2013

The R20 Director for Asia and the Pacific, Mr. Nico Barito, who is the Special Envoy of the Republic of Seychelles for ASEAN, represented R20 as a speaker on *Energy Security for Small Island Communities* at the plenary session of the *Asia-Pacific Economic Cooperation Conference on Clean, Renewable and Sustainable Use of Energy* on the 1st of October 2013. On this occasion, Mr. Barito stressed the importance of the "Blue Economy" for small island communities, which is in turn related to energy security and the Green Economy.

#### VALETTA, MALTA – Meeting between R20 President and the Minister of Sustainable Development

Ms Michèle Sabban met Mr. Leo Brincat, Minister of Sustainable Development, Environment and Climate Change Malta, on the 4th of October 2013. At this meeting many issues were discussed, including the Maltese position on action against climate change. The possibility of a partnership was also discussed between Malta and R20, as well as the participation of Malta in the World Summit of Regions on Climate Change (October 2014).

#### NEW YORK, USA – 2013 Columbia China Prospects Conference

On October 5, Terry Tamminen, R20 Advisor to the Founding Chair and Yufu Cheng, R20 Director for China spoke at the 2013 Columbia China Prospects Conference. The theme of the conference was "Explore the Value of China", which seeks to inspire constructive discussions on China's reform and development under the leadership of the new government. Mr. Tamminen gave the keynote address and Mr. Cheng participated in the Energy Panel.

#### ST. PETERSBURG, RUSSIA - XII ALL-RUSSIAN FORUM: Strategic Planning in the Regions and Cities of Russia

R20 President, Ms. Michèle Sabban, went to St Petersburg to participate in the XII ALL-RUSSIAN FORUM: Strategic Planning in the Regions and Cities of Russia that was held from October 21 to 22, 2013. During her speech at the *International Cooperation for Regional Development* roundtable, Ms. Sabban spoke of R20's activities, and asked Russian regions to join the efforts of R20 towards sustainable development and commit to reducing greenhouse gas emissions at the local level.

#### WARSAW, POLAND – COP19

Hon. Governor Emmanuel Uduaghan of Delta State, Nigeria, in his role of R20 Board Member and Vice-President for Sub-Saharan Africa, attended the 19th Session of the UNFCCC Conference of the Parties held in Warsaw from 11 to 23 November 2013 (COP19).

#### NEW YORK, USA – R20 INTERNAL WORKSHOP

From 18 to 22 November 2013, R20 President Michèle Sabban, R20 Strategic Advisor to Gov. Schwarzenegger, Mr. Terry Tamminen, R20 Executive Director, Mr. Christophe Nuttall, R20 directors and staff from the R20 offices in Geneva and USA, from R20 Algeria, Austria, Brazil, China, Indonesia and South Africa, met during the R20 internal workshop in New York. This workshop was aimed at taking stock of R20's progress so far, presenting on-going projects, and discussing the global strategy for scaling up R20 actions in the short and mid-term (2014-2015), prior to the Paris 2015 Climate

Agreement.

In view of the significant recent growth of the organization, the overall purpose of the internal workshop was to ensure efficient coordination between R20 affiliate offices, which in turn should ensure smooth and consistent transition from R20 1.0 to R20 2.0 in the next two years.

The prevalent point of view expressed by all attending stakeholders during the workshop was the need to focus on projects and action. R20 is expected to gain increased credibility by scaling up its projects in member regions and by showcasing concrete results. At the same time, it has been noted that R20 needs to involve sub-national authorities and local citizens as much as possible, in order to enable ownership of projects by local stakeholders. This was seen as an essential factor of success. In addition, it was agreed that in keeping with the regions' diversity, R20 should constantly diversify its approaches and solutions to meet the needs expressed on the ground.

The five-step project methodology to design and implement "bankable" projects was presented:

Phase 1: Mission to the member region: Identify potential projects/problems

Phase 2: Project assessment: Review on-site situation with technology experts

Phase 3: Project development plan: Identify partners, project pre-feasibility, feasibility, etc.

Phase 4: Circulate to the Green Finance Network: This entails the project has reached a stage where it can attract investors, and, if the project is funded, it moves to Phase 5.

Phase 5: Project implementation and Monitoring & Evaluation.

While this project methodology was discussed at length during the workshop, the overall consensus was also that the process may be adapted on a case-by-case basis, according to the projects' specificities. It was also widely agreed that to fight climate change and to promote a green economy, R20's projects should have a sound technology base. A list of R20 "technologies in action" was presented at the workshop.

A comprehensive database of these technologies was developed with the support of R20 USA:

1. Waste and waste conversion
2. Energy efficiency (LED street lights)
3. Energy efficiency (buildings)
4. Solar photovoltaic and solar thermal
5. Biomass
6. E-mobility (clean transportation)
7. Wind, hydro, blue energy.

With regards to R20's financial strategy, it was agreed that R20 must evolve to generate a continuous flow of operating funds. Different options were discussed in order to achieve this goal, such as implementing energy generation fees or creating funds for projects through the Green Finance Network. In conclusion, R20 directors and staff gathered in New York agreed to closely work together in advancing the R20 agenda worldwide, and, where necessary, assist each other with outreach and fundraising activities.

On the last day of the workshop, a video-conference call was organized with R20 Founding Chair, Arnold Schwarzenegger, who expressed his gratitude to all for the progress achieved thus far and confirmed his utmost willingness to support R20 actions and affiliate offices worldwide. Former Gov. Schwarzenegger made the year 2014 his top priority to promote R20 action by attending key events and conferences planned across the five continents.



Kandeh Yumkella. Former Director General of UNIDO. Head of UNSE4All. R20 Annual Conference. Vienna 2013.



José Manuel Barroso. President of the European Commission. R20 Annual Conference. Vienna 2013.



Christophe Nuttall, Monika Langthaler, Terry Tamminen, Christian Nohel. R20 Annual Conference. Vienna 2013.



### New R20 logo and website

In order to increase its visibility on the web and to better present R20's activities, the R20 website was re-designed. It offers an improved structure with better surfing and interactivity functions. The logo was also re-designed by graphic design interns, Ms. Marjorie Blandin and Ms. Julie Bironien. Through the use of colorful arrows, the logo prominently features the three main actors of R20 (regions, technology and finance).

### Confluence – the new internal communication platform

Confluence is a Wiki platform used as a web-based intranet where R20 staff can create, share and discuss documents, ideas and projects. As R20 welcomes an increasing number of affiliate offices around the world, it becomes necessary to use a common IT tool which allows efficient communication and exchange of information (heavy files and project documentation). Since October 2013, useful information about R20 offices, staff, events or projects have been posted on Confluence thanks to the contribution of all R20 affiliate offices worldwide. The system is user-friendly and is intended to become the main R20 resource center, featuring for instance project PowerPoint presentations, pre-feasibility studies, quarterly and yearly updates, meeting reports (i.e. R20 internal workshop minutes), or the complete list of R20 members and partners.

### Green Growth Best Practice publication

Since May 2013, R20 Executive Director, Christophe Nuttall, has been acting as a lead author for a chapter in a collaborative publication called the Green Growth Best Practice (GGBP) Assessment. The chapter brings together experts from leading organizations such as the OECD, Clean Air Asia, and Leeds University. Together with R20 co-author, Denise Welch, R20 will bring its expertise into a chapter called "National and Sub-national Integration". The first draft of the chapter was finalized, and the lead authors convened in London in November to work on the final draft. The full GGBP publication is expected to be published in June 2014 by the Global Green Growth Institute.

### Subnational MRV (Measuring, Reporting and Verification)

During the first R20 global team meeting, held in New York in November 2013, the issue of subnational MRV was discussed. Measurable, reportable and verifiable data on greenhouse gas (GHG) reductions potentially supports greater transparency in the global climate change regime. MRV is not just about tracking GHG reductions, but also about tracking co-benefits, technology transfer and financing for climate change activities. R20's sub-national members are already doing a lot towards climate change mitigation and adaptation, and the R20 wants to support and reward their efforts, and also to show how sub-national actions can contribute to national commitments to reduce GHGs. In order to quantify and showcase what is happening at the sub-national level, and to show how this can complement existing national efforts, R20 wants to help its members to measure, report and verify their climate actions. To this end, R20 has identified two major global MRV platforms specifically designed for sub-national reporting; the Carbon Disclosure Project Cities Programme, and the Carbonn Cities Climate Registry. Based on member preference, and any previous reporting, R20 will work with its members to publicly report their actions, such as GHG inventories, using one of these two platforms.

## MEMBERS

### CITIES & REGIONS

The City of Vienna, Austria  
 The Region of Lower Austria, Austria  
 The City of Gussing, Austria  
 State of Mato Grosso, Brazil  
 State of Sao Paulo, Brazil  
 Region Réunion, France  
 Municipio de Villa De Alvarez, Colima, Mexico  
 Navolato, Sinaloa  
 City of Santiago de Surco, Peru  
 Municipalidad Distrital de La Molina, Peru  
 Municipalidad de Miraflores, Peru  
 The City of Thiès, Senegal  
 Province of Gauteng, South Africa

### NATIONAL AGENCIES

Direccion Nacional de Construccion – MVCS (Mexico)

## PARTNERS

### NEW CORPORATE PARTNERS

Caspervandertak Consulting  
 EBES, Brazil  
 Gestech International Inc, Quebec, Canada  
 LED Superlight, Germany  
 OMV Group  
 Philips Lighting  
 Renault-Nissan Alliance  
 REWE Group  
 Trópico Equipamentos Elétricos Iluminação Ind. e Com. Ltda  
 Viscon USA, Bakersfield, California  
 ZeroBase Energy

### INTERGOVERNMENTAL ORGANIZATIONS

Austrian Climate and Energy Fund (Klima und Energiefonds).

### ACADEMIC INSTITUTIONS

University of Leeds, Leeds, UK

### NON-GOVERNMENTAL ORGANIZATIONS

Alliance for Health Promotion  
 CIBiogas, Brazil  
 One Asian Foundation, United Kingdom  
 RSET, Lisbon, Portugal  
 Save the Earth Cambodia, Phnom Penh, Cambodia  
 Sustainability Management School  
 The Gold Standard Foundation

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