



## GDF SUEZ Rassembleurs d'Énergies initiative: *Promote access to sustainable energy for all*

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GDF SUEZ



GDF SUEZ

# Access to sustainable energy for all : a global challenge

- ❑ **20% of the world population** does not have access to electricity
- ❑ **2.7 billion people** do not have access to clean cooking facilities
- ❑ **More than one out of four people** faces **energy scarcity** in Europe
- ❑ Access to energy **fuels development** and is therefore central to **poverty reduction**
- ❑ Access to energy is a **key factor of economic and social development**.

The United Nations Organization has declared 2012 the International Year of Sustainable Energy for All (SE4ALL) and was fixing three energy objectives to be achieved in 2030:

1. Ensuring universal access to modern energy services.
2. Doubling the rate of improvement in energy efficiency.
3. Doubling the share of renewable energy in the global energy mix.

The UN declared **2014-2024 sustainable energy for all decade**  
Target: monitoring universal energy access by 2030





# GDF SUEZ RASSEMBLEURS D'ENERGIES

**GDF SUEZ HAVE THE AMBITION TO REDUCE POVERTY AND ENERGY POVERTY AND TO FOSTER ECONOMIC AND SOCIAL DEVELOPMENT BY:**

- **Technical and/or financial** support to social entrepreneurs
- For projects promoting **access to sustainable energy**
- For **disadvantaged populations** and **people facing energy scarcity**
- In **developed and developing** countries

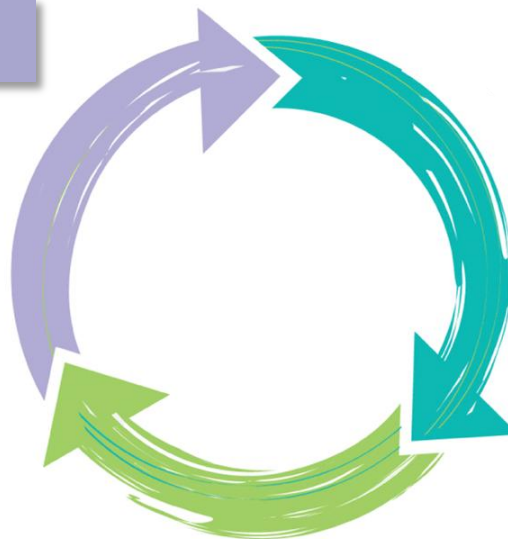
## 3 levers of action serving a common goal: access to sustainable energy for all

### → SUBSIDY

#### ▪ GDF SUEZ Foundation

A "Social energy" focus to offer funding under the form of subsidies to projects promoting energy access for the poorest populations

#### ▪ GDF SUEZ Business Units



### → INVESTMENT

#### GDF SUEZ investment capital fund

Amount invested from 100K€ up to 1 M€

Duration : from 5-7 years or longer

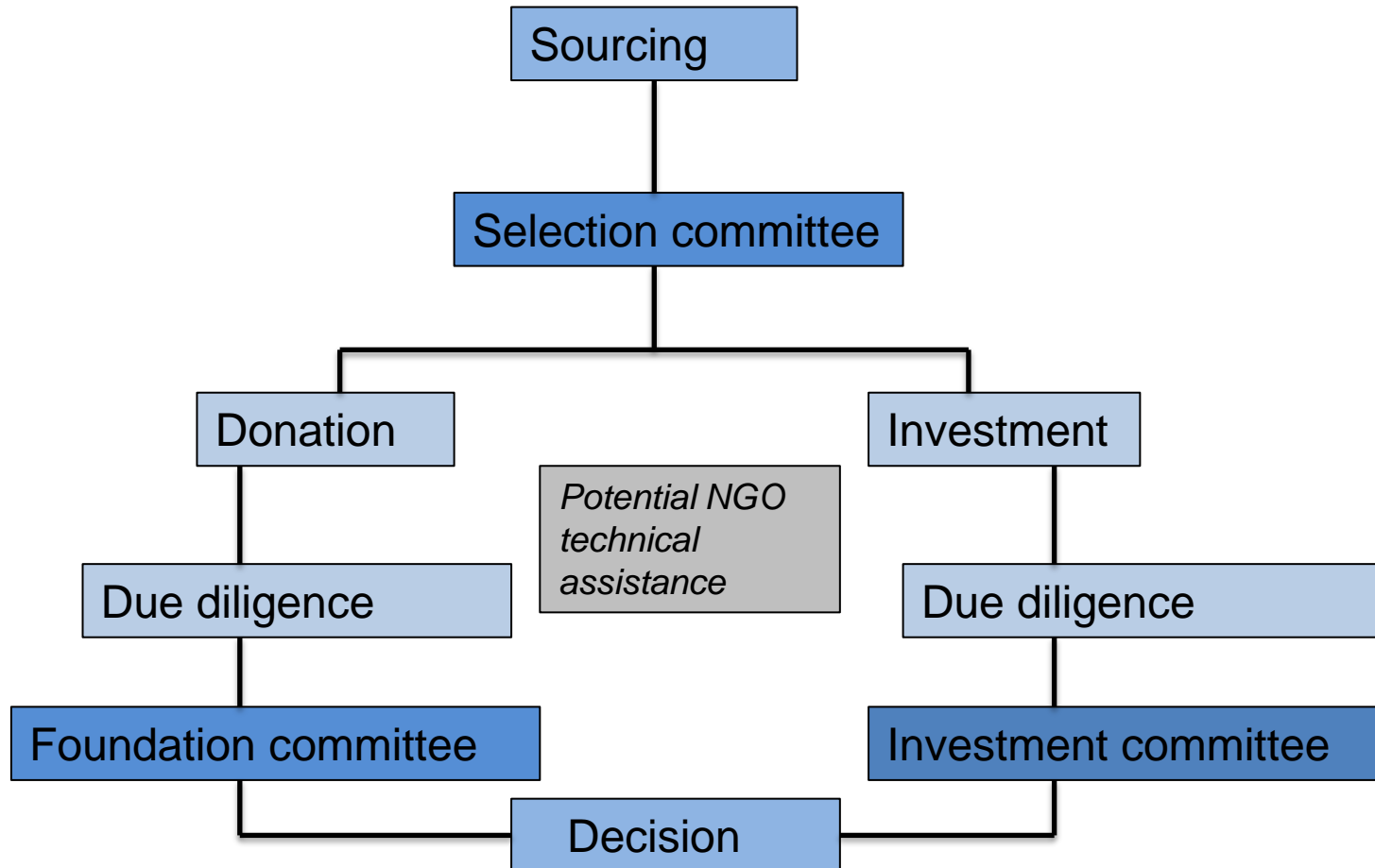
Economic viability of the project (IRR minimum : WACC)

Position to the board or similar governance bodies

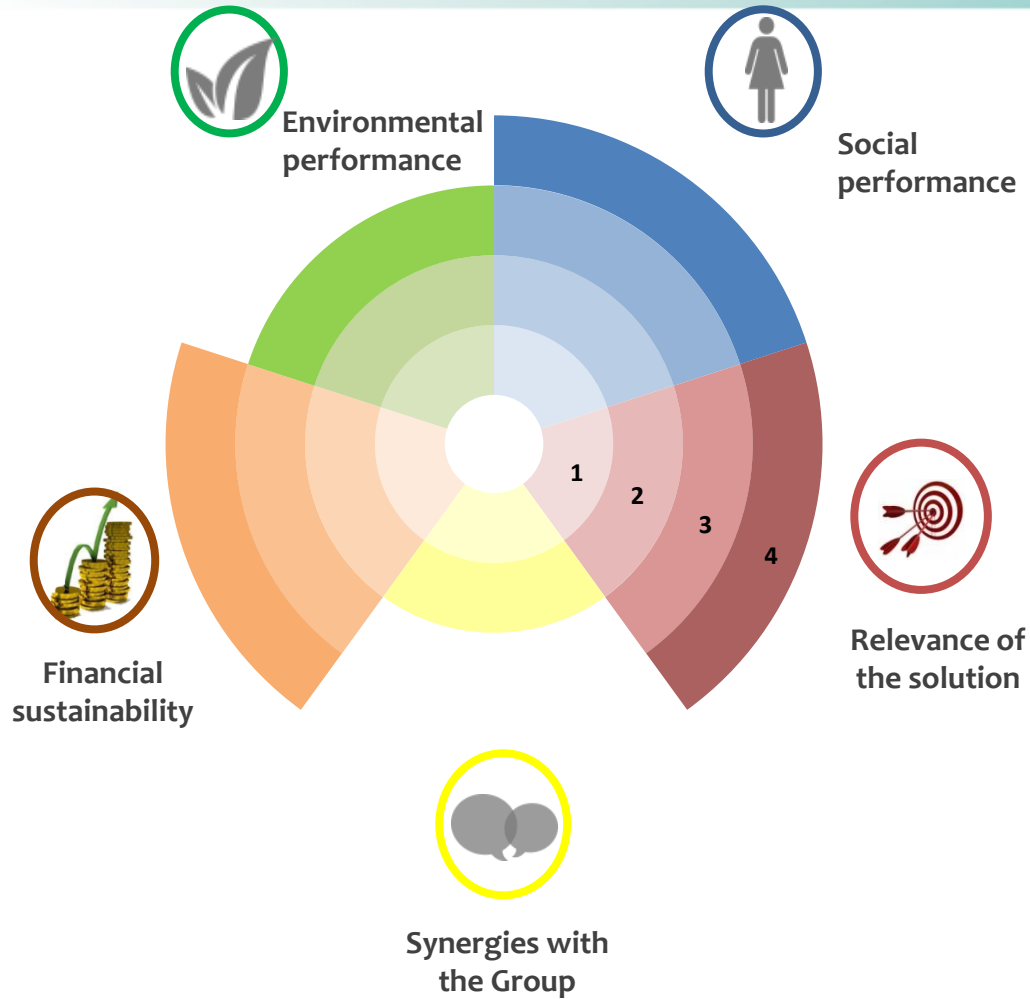
### → TECHNICAL ASSISTANCE

#### ▪ GDF SUEZ Employees

#### ▪ GDF SUEZ NGOs

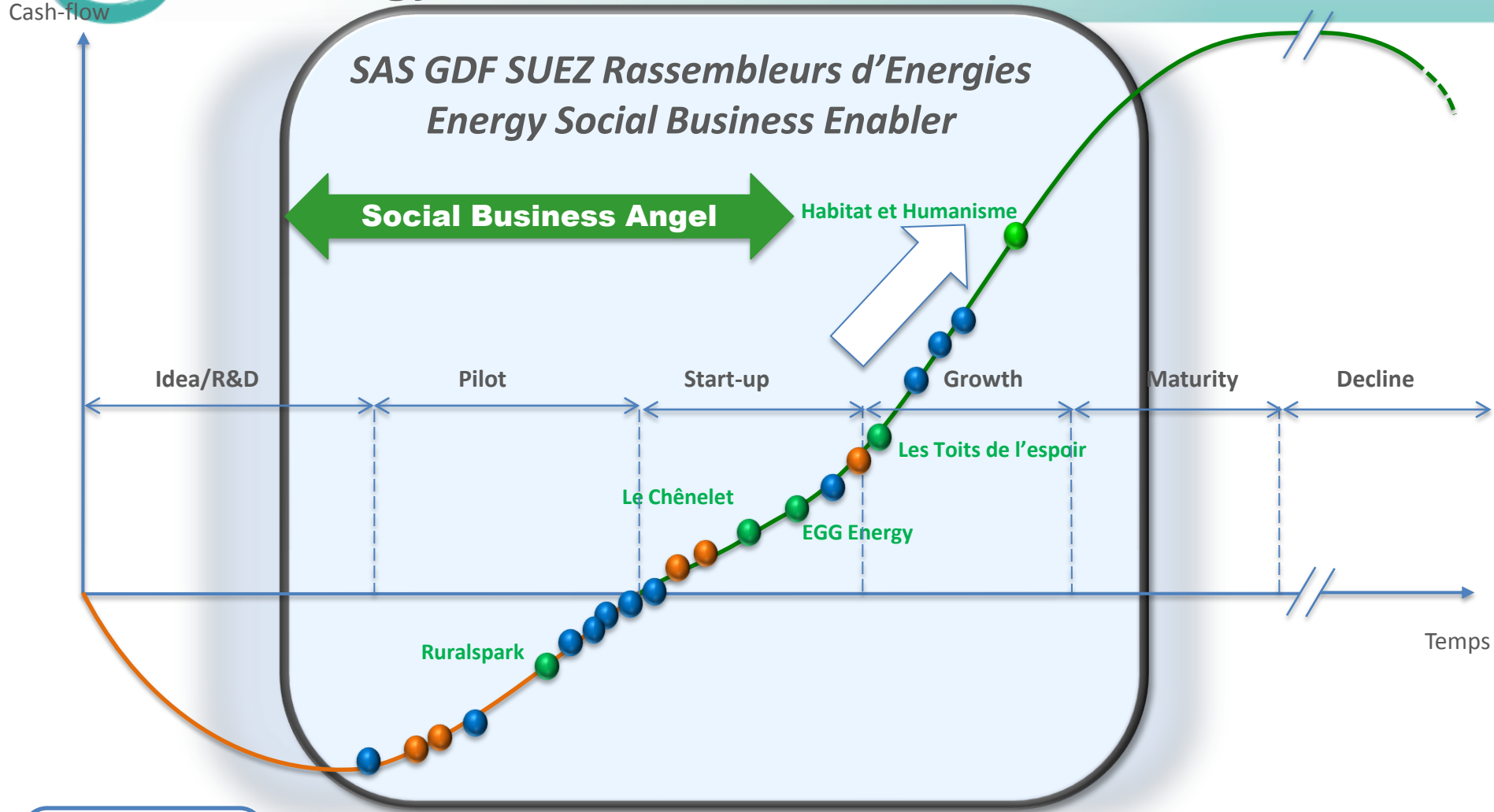


# GDF SUEZ Rassembleurs d'Énergies Criterias





# GDF SUEZ Rassembleurs d'énergies Energy Social Business Enabler



- Signed
- In process
- in due diligence



# GDF SUEZ Rassembleurs d'énergies projects



- 5 investments
  - 20 donations
- With partners, employees and NGOs involvment
- More than 10 technical assistance missions.



Ibeka ( Indonesia)

LES TOITS DE L'ESPOIR  
LES TOITS DE L'ESPOIR



Friendship ( Bangladesh)

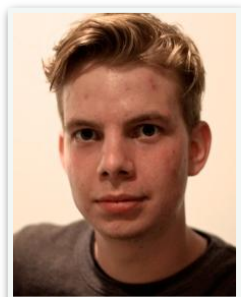


# An example Rural Spark : Presentation of the company

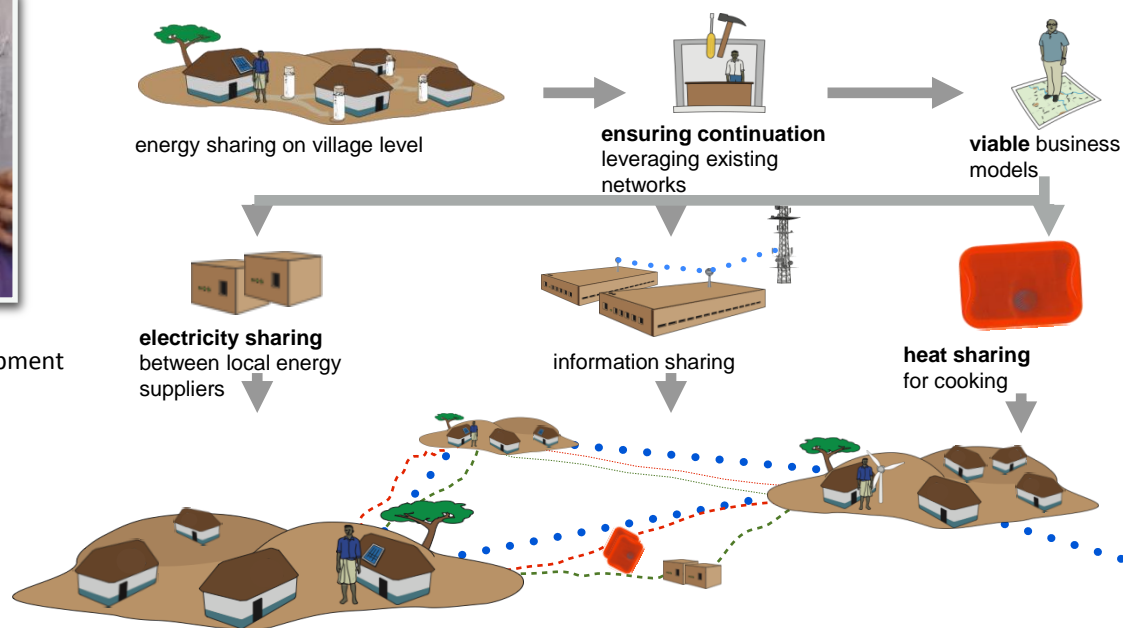
Rural Spark envisions, designs and implements the smart energy networks of tomorrow in Rural India. Entrepreneurs are enabled to generate, use and share sustainable energy. Together, the entrepreneurs start the growth of the smart energy networks of tomorrow.



**Harmen van Heist**  
Director Business Development

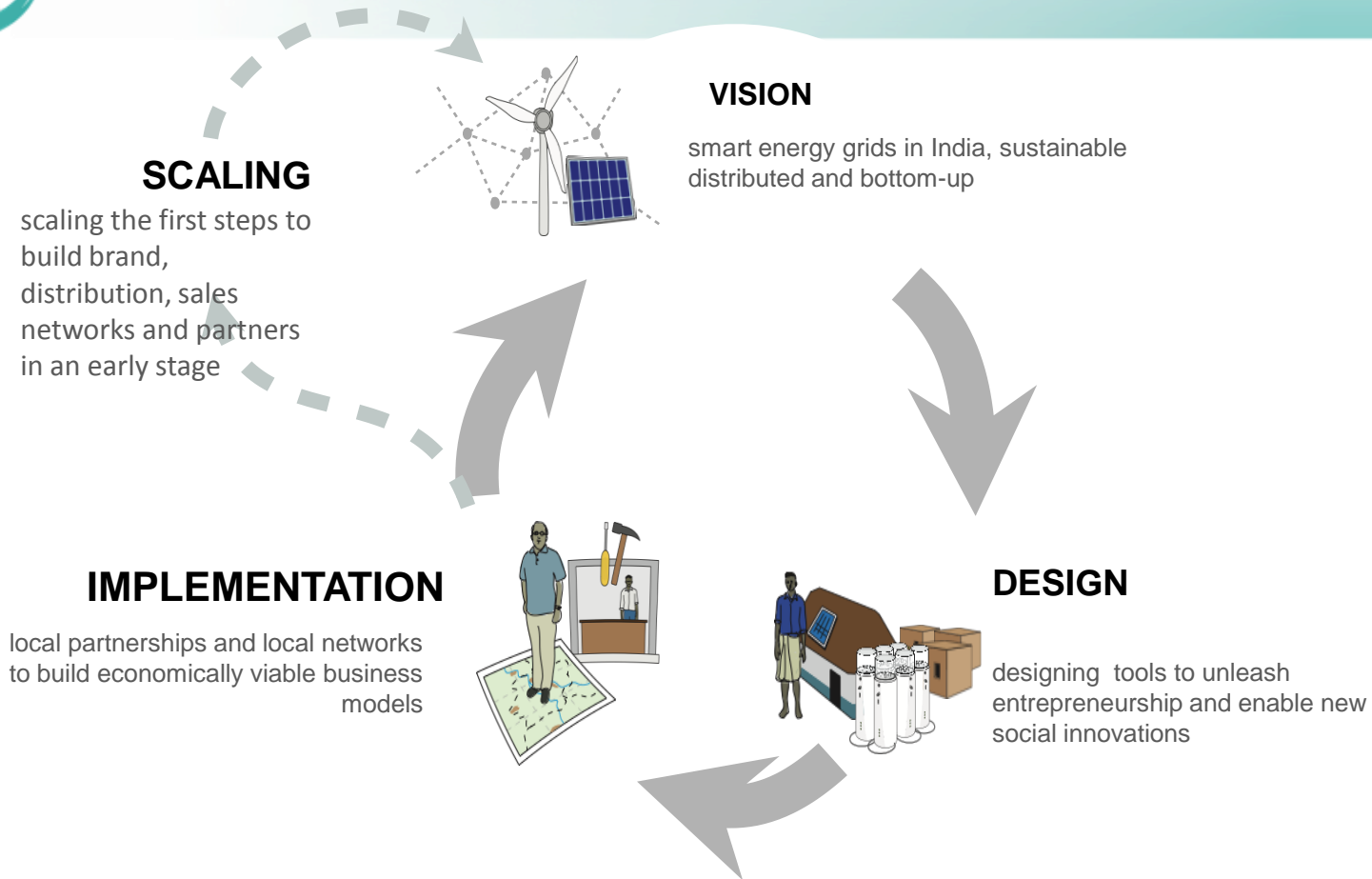


**Harmen van Heist**  
Director Design integration



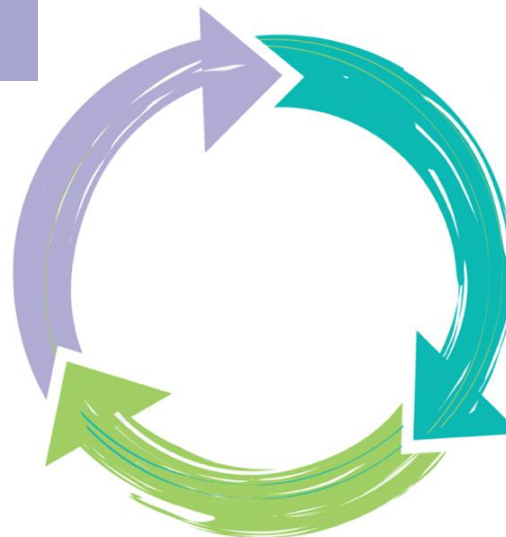
**Evan Mertens**  
Director Technical Innovation

# RURAL SPARK



## → SUBSIDY

Cofely Nederland subsidy to incubate the company



## → INVESTMENT

GDF SUEZ Rassembleurs d'Énergies capital fund : investment of 150 K€























## → SKILLS SPONSORSHIP

Cofely Nederland employees

From the beginning, Rural Spark has been supported by GDF SUEZ Cofely Nederland that recognizes an inspiring initiative and makes it a lever to drive employees commitment and awareness towards sustainability.



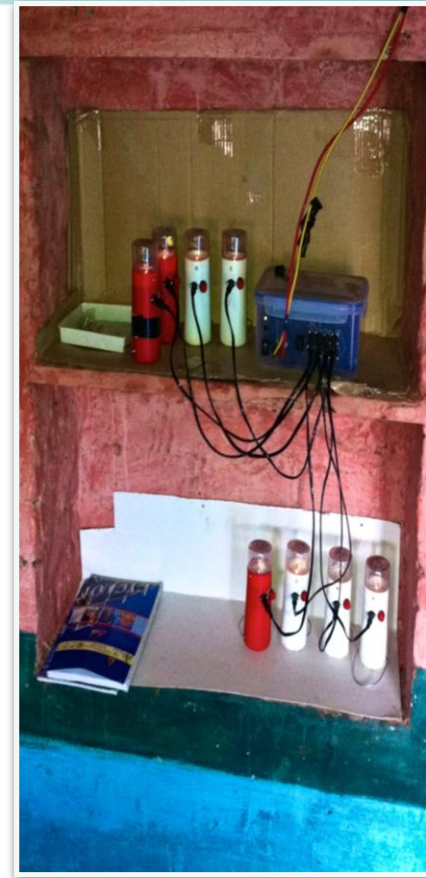
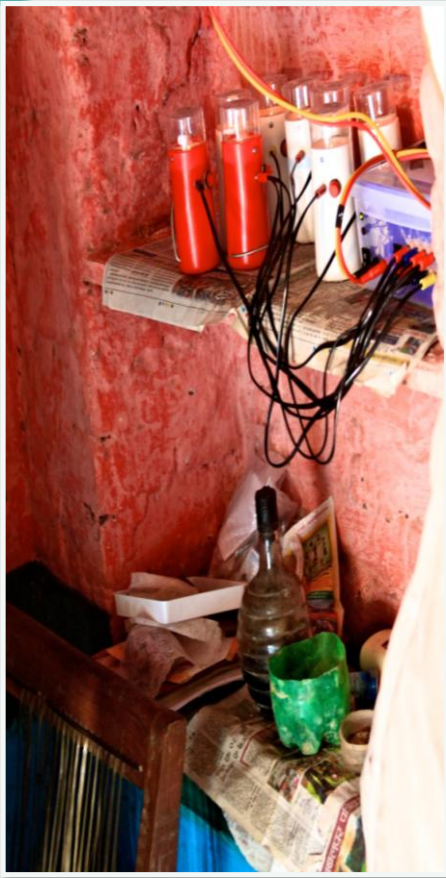
# LOCAL ENERGY SUPPLIERS

 <p><b>Mithilesh Kumar</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Keehaura</b> BLOCK: <b>Nagarnausa</b> DISTRICT: <b>Nalanda</b></p> <p><b>113-br-e-5</b> 25.406164.85.303745</p> 	 <p><b>Kiran Devi</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Bhauluhar</b> BLOCK: <b>Bankeybazer</b> DISTRICT: <b>Gaya</b></p> <p><b>913-br-e-10</b> 24.501000.84.693000</p> 	 <p><b>Kuwar Singh Maravi</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Azwar</b> DATE OF BIRTH: 01-01-1956</p> <p><b>512-mp-e-3</b> 23.138531.81.029229</p> 	
 <p><b>Ranglal Vorkade</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Dungariya Bhartipur</b> DATE OF BIRTH: 12-03-1969</p> <p><b>512-mp-e-4</b> 22.845491.80.022138</p> 	 <p><b>Suresh Kumar Parsthe</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Mohgaon</b> DATE OF BIRTH: 01-01-1985</p> <p><b>312-mp-e-1</b> 23.030659.80.036053</p> 	 <p><b>Rina Kumari</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Manjuri Khurd</b> DATE OF BIRTH: 18-12-1989</p> <p><b>313-br-e-6</b> 24.501879.84.693541</p> 	
 <p><b>Jagdish Prasad Parasthe</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Mohgaon</b> DATE OF BIRTH: xx-xx-1975</p> <p><b>412-mp-e-2</b> 23.030147.80.037228</p> 	 <p><b>Ranju Kumari</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Bikopur</b> BLOCK: <b>Bankeybazer</b> DISTRICT: <b>Gaya</b> DATE OF BIRTH: <b>20-01-1994</b></p> <p><b>913-br-e-12</b> 24.501000.84.693000</p> 	 <p><b>Rita Kumari</b> LOCAL ENERGY SUPPLIER</p> <p>VILLAGE NAME: <b>Bankeybazer</b> BLOCK: <b>Bankeybazer</b> DISTRICT: <b>Gaya</b> DATE OF BIRTH: <b>16-10-1986</b></p> <p><b>813-br-e-9</b> 24.501000.84.693000</p> 	





# The emergence of a system, actually being used



# Rural Spark socio-economical quantified impacts

	THIS YEAR	IN 6 YEARS
<b>Environmental</b>	Saving 72.000 L of kerosine Saving 15,6 tons of CO2	Avoids emission of 1.1 million tons of CO2
<b>Social / Economical</b>	Over 500 households were connected this year.	Over 250.000 households with access to cheap, safe, healthy and sustainable energy, in 6 years because of a real (non-temporary) solution, enabling for stimulates (bottom-up) development.
<b>Economical / Social</b>	100 Local energy suppliers (villagers) earning an income.	Over 13.000 jobs (Local Energy Suppliers) created in 6 years, training included.





# Conclusion

- Access to sustainable energy for all is at the heart of the fight against poverty and the fight against climate change.
- development of innovative solutions by social entrepreneurs: access to low carbone energy , decentralized energy (100 kW to 1 MW) with a significant potential for scalability, energy efficiency for social housing.



GDF SUEZ Rassembleurs Energies is an open initiative bringing together the expertise and solutions of the Group and the contribution of multiple partners.